

FLUIDRA

THE PERFECT POOL EXPERIENCE

Founded in 1969, Fluidra is a leader in the global pool & wellness industry with a long-standing experience in developing innovative products and services in the residential and commercial pool market. We offer our customers an expansive array of products across the most trusted brands with a strong geographical footprint in over 45 countries. Thanks to this multicultural background, Fluidra is able to fully understand the requirements of its customers and adapt to them.

We have over 6,000 employees and the necessary resources to accelerate innovation in critical areas like energy-efficiency, robotics and the Internet of Things.

One of the latest highlights is that we have developed our 2020-2026 ESG Plan "Responsibility Blueprint" with the aim of integrating sustainability into business management. We are convinced that a company with high ESG standards is a more economically sustainable company and one that is more highly valued by its customers, employees and shareholders.

We have made small but significant changes to our Mission to reflect our new ESG initiative: "To create the perfect pool and wellness experience responsibly". Furthermore, we're also taking the opportunity to introduce a new company Vision – bearing in mind that the Mission describes the "what"—that is, what we wake up to do every day, while the Vision describes the "why"—that is, why do we do it, our motivating reason or purpose.

MISSION

To create the perfect pool 8 wellness experience responsibly

VISION

To enhance lives through innovative and sustainable solutions that transform the way people enjoy water for recreation and health

CUSTOM

CUSTOMER COLLABORATION

We add value for our users and customers



EXCELLENCE & INNOVATION

We continuously improve and aim responsibly to be the best



HONESTY & TRUST

PASSION FOR

SUCCESS

We are committed.

accountable and

consistent

We are fair, transparent and accessible



LEARN & ADAPT

We are open minded, flexible and positive



TEAMWORK & INCLUSION

We are humble and consider all perspectives















Business management policy

It is the policy of AstralPool UK Limited to:

- give satisfaction to all of our customers and other stakeholders and interested parties whenever possible, meeting and exceeding their expectations;
- comply with all legal requirements, codes of practice and all other requirements applicable to our activities;
- the reduction of hazards, prevention of injury, ill health and pollution;
- provide all the resources of equipment, trained and competent staff and any other requirements to enable these objectives to be met;
- ensure that all employees are made aware of their individual obligations in respect of this quality policy;
- maintain a management system that will achieve these objectives and seek continual improvement in the effectiveness and performance of our management system based on "risk";
- ensure any formal complaints are dealt with efficiently and within an acceptable time period.

This quality policy provides a framework for setting, monitoring, reviewing and achieving our objectives, programmes and targets.

Customer service is an essential part of the quality process and to ensure this is fulfilled, all employees receive training to ensure awareness and understanding of quality and its impact on customer service.

To ensure the company maintains its awareness for continuous improvement, the quality system is regularly reviewed by "Senior Management" to ensure it remains appropriate and suitable to our business. The Business Management System is subject to both internal and external annual audits.

Dyfed Thompson-Smith General Manager







NEW PRODUCTS 2022







Skimmer Unik

+ The perfectly designed and evenly integrated skimmer.

See page 50







ASTRALPOOL 🖍

ASTRALPOOL A



Senext XP

+ The small-sized single speed pump with big performance.

See page 123











Redox, pH, Cl Monitoring & Control

+ New range consisting of : monitoring & control Kit, Trickle Feed Sanitizer and commercial dosing systems.

See page 152









Vortrax commercial pools

+ Ultra-efficient cleaner designed for use in public pools.

See page 166



















Arco / Arcomax commercial pools

+ Pool cleaner specially designed for heavyduty and intensive use in public pools.

See page 167













ASTRALPOOL A



LumiPlus FlexiMini LED

+ The compact design LED with maxicustomization for everyone's style.

See page 180











Balance E spa

+ The balance between functionality, performance and cost. See page 280



ASTRALPOOL A



Alaska - Siberia

+ Water-Air Chillers **Alaska - Outdoor Installation Siberia - Indoor Installation**

See page 311







ASTRALPOOL A





+ Combined chiller and heatpump.

See page 312









OPENING TIMES

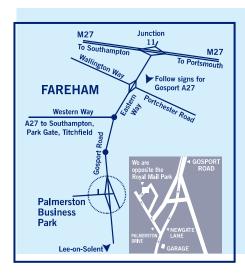
Monday - Thursday: 8:30 - 17:00

Friday: 8:30 - 16:30

The Trade counter is closed between

12.30 - 1.30 Mon -Fri

Normal cut off time for overnight despatch 15:30, excluding pallets which is 13:30



Units 30-32, Palmerston Business Park, Newgate Lane, FAREHAM, Hants P014 1 DJ Tel. 01329 514000

Telephone Numbers, Fareham:

- Order processing / placing - Technical support / enquires - Account enquiries 0845 306 0903 0845 306 0906 0845 306 0907

> E-mail: sales@astralpooluk.com Website: www.astralpool.com





MEET THE TEAM

- GENERAL MANAGER Dyfed Thompson-Smith
- TECHNICAL DIRECTOR Simon Jones
- BDM PROJECTS Amanda Goddard
- PROJECT ENGINEER Paul Donohoe

SALES

sales@astralpooluk.com

INTERNAL SALES:

- OFFICE SUPPORT Sarah Shrimpton
- SALES ORDER PROCESSOR Lucianne Seymour
- TECHNICAL SALES William Jones
- TECHNICAL SALES Jackie Brady
- TECHNICAL SALES Samantha Wells
- TECHNICAL SALES Dafydd Evans

EXTERNAL SALES:

- NORTHERN SALES EXECUTIVE To be confirmed
- SOUTHERN SALES EXECUTIVE Garreth Rigby grigby@astralpooluk.com
- BUSINESS DEVELOPMENT MANAGER H & V Ron O'Sullivan rosullivan@astralpooluk.com

ACCOUNTS

creditcontrol@astralpooluk.com

- CREDIT CONTROL / SALES LEDGER Gillian Lovegrove
- PURCHASE LEDGER / ADMINISTRATION Suzanne Colley

WAREHOUSE

- WAREHOUSE SUPERVISOR James Shears
- WAREHOUSE OPERATIVE Graham Smith
- WAREHOUSE OPERATIVE Aydin Dinc
- DISPATCH Jamie Adams

GENERAL INFORMATION

Unit conversion table

Length:	m	in	ft	
Metre (m)	1	39.370	3.281	•
Inch (in)	0.025	1	0,083	
Foot (ft)	0.305	12	1	
Surface:	m^2	in ²	ft ²	cm ²
Square metre (m²)	1	1,150.388	10.764	10.000
Square inch (in²)	0.000645	1	0.0069	6.450
Square foot (ft²)	0.093	144 036	1	929.03
Square centimetre (cm²)	0.0001	0,155	0.00107	1
Volume:	m ³	UK gal	US gal	
Cubic metre (m³)	1	219.969	264172	1000
Imperial gallon (UK gal)	0.0045	1	1.201	4.546
US gallon (US gal)	0.0038	0.833	1	3.785
Litre (I)	0.000	0.220	0264	1
Speed:	m/s	in/s	ft/s	m/h
Metres / second (m / s) v	111/5	39.370	3.281	3600
Inch / second (in / s)	0.025	1	0.083	9144
Foot / second (ft / s)	0.305	12	0.063	1097.28
Metre / hour (m / h)	0.00028	0.011	0.00091	1037.26
Flow rate:	0.00028 m³/m² h	US gal/ft² min	UK gal/ft²min	ft ³ /ft ² min
(m³/m².h)	1117/111.11	0.409	0.341	0.055
(US gal / ft².min)	2.445	0.409	0.833	0.134
(UK gal / ft².min)	2.936	1.201	1	0.158
(ft³/ft².min)	18.322	7,474	6.311	0.130
Mass:	10.322 ka		0.311 lb	
Kilogram (kg)	kg 1	g 1000	2.205	
Gram (a)	0.001	1	0.0022	
Pound (lb)	0.454	453.59	0.0022	
Pressure:				:
Pascal (Pa)	Pa 1	bar 0.00001	kg/cm ² 0.00001	psi 0.00014
Bar (bar)	100000	1	1.019	14.504
		·	1.019	
Kilogr. / Cent. squared (kg / cm²)	98100 689476	0.981 0.0689	0.070	14.228
Pound / square inch (psi)	6894./6			
Energy: Joule (J)	J 1	kWh	cal 0.239	kcal 0.00024
		0.000000277		
Kilowatt per hour (kWh)	3600000	1	860421	861.244
Calorie (cal)	4.186	0.00000116	1000	0.001
Kilocalorie (kcal)	4186	0.0012 HP	1000 BTU/b	
Power:	kW		510/11	
Kilowatt (kW)	1	1.341	3412.14	
Horsepower (HP)	0.746	1	2544.43	
British Thermal Unit / hour (BTU / h)	0.00029	0.00039	1	
Flow rate:	m³/h	US gall/min	UK gall/min	
Cubic metre / hour (m³ / h)	1	3.667	4.403	
US gallon / minute (US gall / min)	0.273	1	1.201	
Gal / min UK (UK gall / min)	0.227	0.833	11	
Litres / second (I / s)	3.6	13.198	15.85	
Temperature:	°C	%F	K	
Degrees Celsius (°C)	1	[(9/5)x°C]+32	°C+273.16	
Fahrenheit (F)	(5/9)x(°F-32)	1	n.a	
Kelvin (k)	K-273.16		1v	

Size of pipe and water flow rate

DN mm	D mm	Inches	Flow rate (m³/h) depending or Suction (1.2 m/s)	n the speed of the water Discharge (2 m/s)
15	20	1/2"	1	1.6
20	25	3/4"	1.6	2.7
25	32	1"	2.7	4.4
32	40	11/4"	4.4	7.3
40	50	11/2"	7.5	12.5
50	63	2"	11	18.4
65	75	21/2"	15.7	26.1
80	90	3"	22.3	37.1

Due to ongoing changes, some photographs may not match the products exactly.

Printed on paper from sustainable forests. Fluidra contributes to environmental protection.





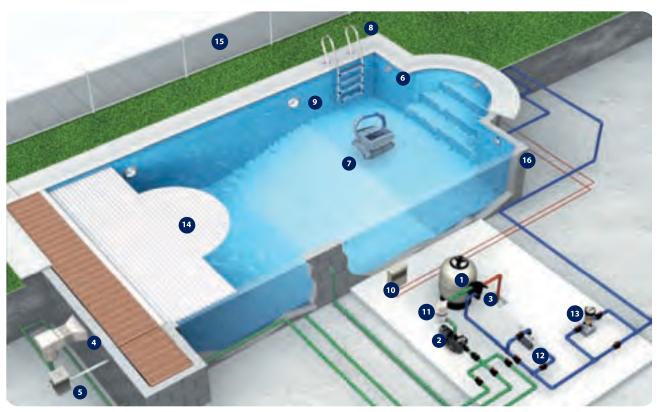








General diagram of installation of swimming pool equipment



- 2 Pump
- 3 Multiport valve
- Skimmer
- Level regulator
- Return inlet
- Automatic bottom cleaners
- Ladder
- Light spot
- Electric control cabinet 1
- 1 Hydrospin
 - Heat exchanger
- Chlorine dispenser
- 14 Automatic pool cover
- Safety barriers
- Pool shell

Filter and pump selection table

	O	>> >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	O		7		Sand
Pool volume	Daily filtration	Filtration speed	Filter Ø	Plum	nbing	Pump	Sand
m³	h	m³/h/m²	mm	mm	inches	HP	kg
40	8	50	350	50	11/2"	0.3	40
40-50	8	50	400	50	11/2"	0.5	60
50-60	8	50	450	50	11/2"	0.5	70
60-75	8	50	500	50	11/2"	0.5	100
75-90	8	50	560	50	11/2"	0.75	130
90-115	8	50	600	50	11/2"	1	160
115-130	8	50	650	63	2"	1	175
130-170	8	50	750	63	2"	1.5	300
170-200	8	50	800	63	2"	2	330







for money

Exclusive to the

professional channel*

Unique sustainable

quality



for public pools











ofstocks

Fluidra Connect compatible

*Product recommended for sale in physical stores due to the product's specialized and complex nature and/or its installation.

KEY FIGURES



Number of employees



Number ofcountries



Number of sales branches



Number of production centres

HIGHLY RECOGNIZED BRANDS





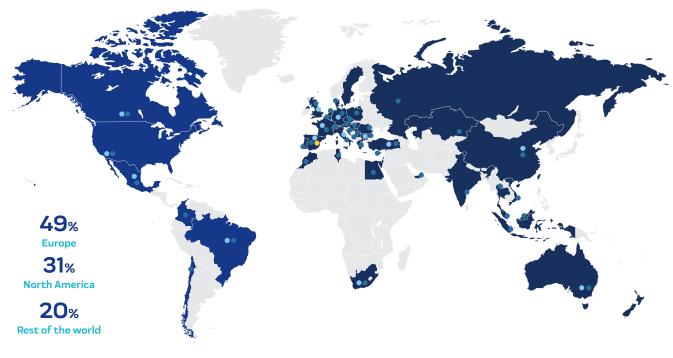








A GLOBAL POWERHOUSE



• Own sales branch

Production centres

Headquarters

HOW TO ORDER

Placing an order

Telephone:	Fareham: 0845 306 0903
e-mail sales: e-mail accounts:	sales@astralpooluk.com enquiries@astralpooluk.com creditcontrol@astralpooluk.com
Web site:	www.astralpooluk.com
Trade Counter: (Phone/Fax ahead if possible)	Open Mon - Fri 08:30 - 16:00 (closed for lunch 12.30 - 1.30)
AstralPool UK office:	Open Mon - Thu 08:30 - 17:00 Friday 08:30 - 16:30

When ordering don't forget!!

- Any items not in stock will be confirmed either on the order confirmation or verbally.
- All orders being delivered by haulier will be confirmed in writing. It is the customer's responsibility to check this confirmation is correct. All telephone orders will be verbally confirmed.
- Bulk orders = Lower prices for you. Please ask for a quote.
- Next day despatch (our normal cut-off time is 15:30 excluding pallets which is 13:30).
- Orders for special order items cannot be cancelled once accepted.
- Free Technical Help Take advantage of the free advice offered from our skilled in-house staff.

We reserve the right to charge £75.00 for our filtration design and specification services, this will be credited against relevant orders over a pre arranged amount. Full T & C's available upon request.

All transactions are governed by AstralPool UK Terms $\ensuremath{\mathsf{S}}$ Conditions.

All images, drawings and illustrations in the catalogue, are for guidance only. AstralPool UK reserve the right to make alterations without prior notification.

DELIVERY

Delivery charges

Large orders

For qualifying items (see exclusions) for goods exceeding £680.00 trade (domestic items), carriage will be free via standard carrier to your normal account address in the UK mainland.

For mixed orders the excluded items are chargeable.

For all orders below £680.00 trade (excluding VAT) carriage will be based on standard or overnight carrier prices (see below).

Standard 3 to 5 day

£15.00 up to 20 kg then 35p per kg (pipe)

Exclusions

All items marked shown with the following icon



Carriage prices available on request

Pipe over 3 metres

Timed Delivery / Delivery outside UK mainland					
Overnight	£19.50 up to 20 kg then 35p per kg				
Overnight Pipe over 3 metres	£29.00 up to 20 kg then 42p per kg				
Overnight AM	£24.00 up to 20 kg then 40p per kg				
Overnight before 10.30 AM	£38.00 up to 20 kg then 50p per kg				
Overnight before 9.00 AM	£60.00 up to 20 kg then 75p per kg				
Saturday Delivery before Noon (excluding pipe)	£49.50 up to 20 kg then 42p per kg				
N.Ireland Next day	£60.00 up to 20 kg then £1.00 per kg				
N.Ireland standard	£45.00 up to 20 kg then £1.00 per kg				
Channel Islands, I.O.M. (1 - 2 days)	£104.00 up to 20 kg then £1.05 per kg				
Channel Islands, I.O.M. (standard)	£75.00 up to 20 kg then £1.04 per kg				
Republic of Ireland 3-5 day	£55.00 up to 20 kg then £1.00 per kg				
Postage upto 2 kg	£7.00				
Special Post upto 2 kg	£10.00				

Cut off for pallets is 13:30.

Back orders will normally be delivered on a standard 3 to 5 day carriage or post service free of charge to the same address (UK Mainland only). Applies to discount groups A, E, I, J and L (excluding pipe). Bespoke items will also be excluded.

GOOD RETURNS POLICY

Contact Customer Service 0845 306 0906

Goods damaged in transit / Late deliveries

No claims can be made for damaged or missing goods that have been signed for, even if its "subject to inspection"

It is recommended that customers visually check all expensive items (eg pumps and filters) & count the number of packages, noting any discrepency, BEFORE signing the carrier's delivery note. Once signed, no claim will be entertained by the carrier & therefore by AstralPool UK.

All damaged goods should be refused and returned to AstralPool UK marking the consignment or delivery note "Refused Goods Damaged" $^{\circ}$

AstralPool UK must be notified within 24 hrs of any missing or late delivered goods.

AstralPool UK makes every effort to supply goods on time but cannot be held responsible for any delivery delays.

Goods returns

Please contact customer services on 0845 306 0906 or email **returns@astralpooluk.com** to obtain a goods returns number. We will need the original invoice or order number and serial number if applicable with the reason you wish to return the goods.

Returns will not be accepted without a goods return number. We will e-mail you a goods return number and this must be attached to any packages being returned.

Items incorrectly ordered or not required will be restocked without a restocking charge, subject to approval and that the goods are in perfect condition including the packaging and they are returned with 14 days of the original delivery date. Excluding bespoke and or special order items.

The following will incur a 25% re-stocking charge plus transport costs if arranged by AstralPool UK Ltd:

- · Goods returned after 14 days but within 60
- The original packaging is damaged

The following goods will not be accepted for credit:

- 1. Special order goods
- 2. Pumps without serial numbers
- 3. Orders over 60 days old (unless faulty under warranty)

Please note if AstralPool UK Ltd arrange collection and for some reason the goods cannot be collected, i.e no-one in, we will charge the collection cost.

Credits will not be shown on statement until 28 days after receipt of goods.













POOL SHELL EQUIPMENT



FILTRATION



FILTRATION PUMPS



WATER TREATMENT PRODUCTS



DOSING AND CONTROL EQUIPMENT



POOL CLEANING EQUIPMENT



POOL LIGHTING AND SOUND



ORNAMENTAL WATER FEATURES



SPAECIAL THE WELLNESS SOLUTION



LAGHETTO POOLS



POOL COVERS AND ROLLERS



COMPETITION POOL ACCESSORIES



FLUID HANDLING MATERIALS



SPAS AND WELLBEING



POOL HEATING & DEHUMIDIFICATION



SELECTED SPARES KITS







MODULAR POOLS

- 16 Inoxpool
- 19 SkyPool Commercial Pools
- 22 Bluespring
- 24 Preformati



INOXPOOL

Inoxpool



Pool manufactured in one piece in satin-finish, AISI-316L stainless steel.

With a 2 mm thickness wall and with skimmers. It includes a non-slip bottom.

- Hydraulic pre-installation included.
- Ready to connect.
- Easy installation, without building work.
- Total security and quality.

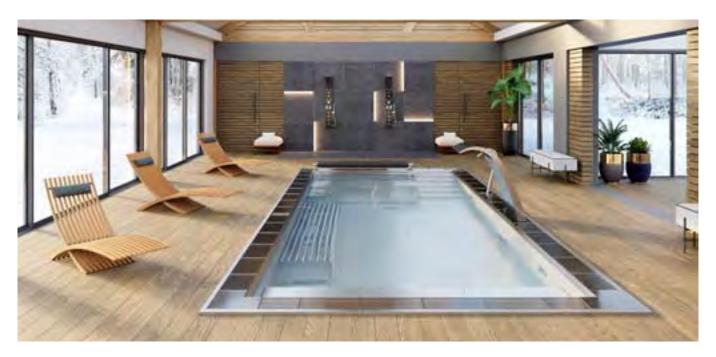
2 Differents models:



Optimal model is a residential pool made in one piece in satin-finish stainless steel, AISI-316L including skimmers. It includes a ladder.

Wellness model is a residential pool made in one piece in satin-finish stainless steel, AISI-316L including skimmers. Including:

- Steps
- Hydromassage bench
- Hydromassage cascade
- Hydromassage water jet
- Cover



INOXPOOL

Installation



PREPARATION OF THE GROUND



The base the spa or pool must be prepared.

TRANSFER TO LOCATION

Manufactured in one piece, your transfer must be made by an authorized mode of transport.



The transfer must be made in a reinforced trailer or truck so that it arrives at its destination in perfect condition.

TRANSFER BY CRANE



Facilities must have easy access (outside) to be able to install the crane that will help to unload the Spa or Pool and put it in place.

UNLOADING THE POOL



The installation must be checked and secured so that everything is in perfect order.

LEVELING AND ADJUSTMENTS



Assembling the connections and putting it into operation is the last step before you can enjoy a relaxing and dreamed of space of well-being.

Ask for your new **Spa & Pool INOX SOLUTION** catalogue by AstralPool







INOXPOOL

Model comparison



		(A)	3	de	1	- A	1	1
	5 x 3 x	1.2 m	7 x 3 >	1.2 m	9 x 3 x	c 1.2 m	12 x 3	x 1.2 m
MODELS	Optimal	Wellness	Optimal	Wellness	Optimal	Wellness	Optimal	Wellness
Code	71499	71500	71504	71505	71511	71512	71518	71519
General specifications								
Internal dimensions (m)	5 x 2.8	5 x 1.2	7 x 2.8	35 x 1.2	8.84 x 2	.85 x 1.2	11.84 x 2	2.85 x 1.2
External dimensions (m)	5.7 X 3	.6 X 1.3	7.7 X 3	.6 X 1.3	9.6 X 3	.6 X 1.3	12.6 X 3	3.6 X 1.3
Water capacity (m³)	1	8	2	4	3	31	4	1
Empty weight / Full weight (kg)	2100 / 20100	2300 / 20300	2650 / 26650	2850 / 26850	3250 / 34250	3350 / 34350	4050 / 45050	4200 / 45200
Characteristics								
Skimmers	2	2	2	2	3	3	4	4
Overflow suction	-	-	-	-	-	-	-	-
Return inlet	3	4	3	4	4	5	5	6
Bottom cleaner nozzle	1	1	1	1	1	1	2	2
Main drains	2	2	2	2	2	2	2	2
Projectors	2	2	2	2	2	2	3	3
Accessories								
Ladder (3 steps)	•	-	•	-	•	-	•	-
Steps	-	•	-	•	-	•	-	•
Hydromassage bench	-	•	-	•	-	•	-	•
Hydromassage cascade	-	•	-	•	-	•	-	•
Hydromassage water jet	-	•	-	•	-	•	-	•
Hydromassage beds	-	-	-	-	-	-	-	-
Countercurrent	-	-	-	-	-	-	-	-
Cover	-	•	-	•	-	•	-	•
Recommended equipment								
Hydraulic button and timer	-	45218 + 35761						
Blower pump for hydro beds	-	-	-	-	-	-	-	-
Blower pump for hydro bank	-	35388	-	35388	-	35388	-	35388

SKYPOOL COMMERCIAL POOLS

ABOUT SKYPOOL



PANEL POOLS, THE VERY LATEST TECHNOLOGY THAT ENSURES PRECISION AND ACCURACY



The easiest, quickest and surest way of building any required residential and commercial pool. SkyPool is AstralPool's range of prefabricated panel pools that can be adapted to fit existing infrastructures or new ones.

The use of these totally prefabricated panels that are easy to fasten and assemble together means that an in-ground or above-ground pool can be built in record time.

The steel panels undergo hot-dip galvanisation in a bath of zinc, which gives them excellent protection against rusting so that they last longer and their safety is guaranteed throughout their service life.

SkyPool, experts in end-to-end solutions

Thanks to SkyPool, AstralPool is the undisputed world leader in prefabricated pools made of galvanized steel panels. Our flexibility and drive, in addition to the way we adapt to the needs and regulations of each market have led us to build pools in more than 60 countries, which has made us one of the companies with the greatest international outreach in the sector.

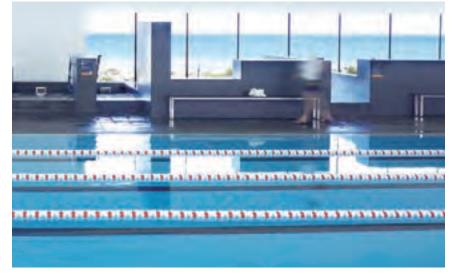
Award-winning competition pools.

As leaders in this sector, we have longstanding experience in the development of solutions for the world of competition. We make pools of any size including the required by FINA standards and regulations.

End-to-end solutions.

AstralPool has a multidisciplinary team able to give you support in the development of your project from beginning to end, as well as the degree of experience and know-how expected of a world leader:

- · Project analysis.
- · Preliminary design study and quote.
- \cdot Advice and water treatment.
- · Manufacture.
- $\cdot \ \text{Worksite management}.$
- · Installation of complete solutions.





SKYPOOL COMMERCIAL POOLS

SkyPool is the best choice for many reasons.





Quick

The use of completed prefabricated components together with the easy assembly system considerably reduces the time required to build a pool.



Versatile

This system can be used for any design, whatever a pool's shape.



Long-lasting

New design and manufacturing systems are used to obtain maximum quality, functionality and durability of all pool components. The metal structure has a 20-year warranty.



Lightweight

Choose a place and we'll build a pool there!
The advantage of the lightweight structure that is easily adaptable is that pools can be built even in awkward conditions. Small spaces, rooftops, stadiums, etc.



Inexpensive

As no complex infrastructure has to be built, a high performance pool can be obtained at a lower cost.



Reliable

The use of the very best components, together with a totally safe construction system, delivers the reliability required in this type of facility.



Sustainable

All components can be recycled, are noncontaminating and are manufactured using processes with a low environmental impact.

Advantages of SkyPool

1. Technology

Thanks to the technology used in the construction of SkyPool panels, they are fully compliant with FINA regulations. There is an extremely easy and efficient system for adjusting the level and angles of a pool. The access through the system's manholes enables all adjustment to be made.

2. Watertight. No leaks.

There are no cracks. The perfect fit of the assembled SkyPool panels covered by the liner ensure the pool shell is completely watertight. Furthermore, the system has been designed to withstand land movements and subsidence, in addition to the pressure exerted when a pool is emptied or filled.

3. High resistance finishes.

The PVC-P reinforced liner used by SkyPool is watertight, which gives these pools a high level of safety, protection, robustness and durability. Furthermore, it is resistant to chlorinated water and aging caused by external agents. The liner ensures elasticity and is available with a wide range of optional features (colours, etc.).

4. Quicker installation time.

It can take as much as two months off the time to manufacture and install an Olympic SkyPool (50 x 25 x 2 m) in comparison with a concrete pool. This considerably reduces indirect and opportunity costs.

5. Low maintenance.

As there is access to the pool perimeter, any problems are more quickly located, so repair and maintenance work is easier and costs less.

6. Earthquakes resistant.

Build earthquake-resistant pools. The team of Skypool engineers calculates and adapts the system according to the seismic regulations of each country. Under request.

SKYPOOL COMMERCIAL POOLS

SkyPool panel models





BARCELONA PANEL

Freestanding galvanized steel panel suitable for pools of up to $2.5\,\mathrm{m}$. Fastenings are only required at the bottom.



CAR PANEL

Freestanding galvanized steel panel suitable for pools of up to 3 m. Fastenings are required at the top and on the bottom.



RENOVATION PANEL

Freestanding galvanized steel panel suitable for pools of up to 2.5 m. Fastenings are only required at the bottom



MELBOURNE PANEL

Freestanding galvanized steel panel suitable for pools of up to 3 m with structure to install the surround of the pool.





BLUESPRING

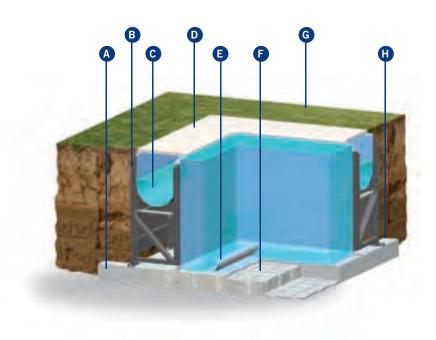
Bluespring



When the sides of the overflow blend with the sky and with the surrounding atmosphere, the fulfillment of the perfect pool is realized, the time when the pool disappears and binds to the infinite lines.

Bluespring is designed to give space to the architectural interventions to harness the magic of the different types of overflow available. The structure has been designed to maintain the integrity of the performances over the years, getting its point of excellence in the reliability using. The best technology at the service of demanding customers who believe in the beauty of their own water space.

- A Reinforced concrete slab
- **B** Steel structure
- **C** Compensation channel
- **D** Perimetric flooring
- E Reinforced membrane
- F Concrete reinforcement
- **G** Terrapieno
- **H** Fasteners



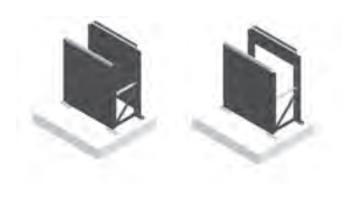
The Bluespring structure technology is made of galvanized and passivated steel with low-carbon Z275 coverage, treated with the exclusive protective Laghetto ZSV-TEC coating.

All the ground supports, the threaded rods anchors, the moving parts and the nuts and bolts are made of stainless steel.

The Bluespring ZSV-TEC structure provides a full height ground retaining panel if used as a classical inground pool, or is equipped with a shortened panel in case it is mounted in above ground situations.

Bluespring offers two standard heights for the pool panel: 130 and 152 centimeters.

Higher or variable water depth can be obtained directly by varying the design of the bottom slab.

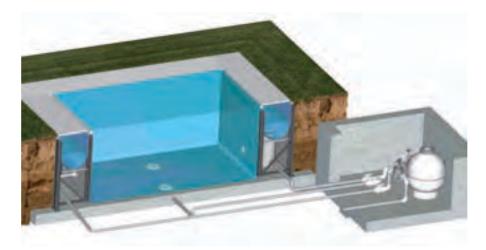


BLUESPRING

Bluespring compensation system



With Bluespring balance tank is not necessary, thanks to the use of big and capacious overflow duct, which allows to avoid the construction of the external compensation tank, with consequent and evident of space and cost savings.





SPA & POOLINOX SOLUTION E x c l u s l v l t y

Our flexibility and dynamism, as well as our adaptation to the needs and regulations of each market, have led us to build steel solutions in more than 60 countries, making us one of the companies with the greatest international outreach in the sector.

INTEGRAL SOLUTIONS, UNIQUE DESIGNS AND CUSTOM SOLUTIONS DEVELOPED CREATE EXCLUSIVE SPACES IN A WELLNESS ENVIRONMENT.

We put at your disposal all the tools and our broad experience to turn your project into reality, adapting our designs to the client's needs.





PREFORMATI

Preformati

Preformati Pools and Spa's, ideal for both residential and commercial applications, using Preformati's advanced technology. The result is a huge range of self-supporting pools and spa's in one piece, making installation easier than before, thanks to the Preformati movement system, created to give an efficient solution to a lot of problems connected to the construction and installation of traditional pools.

The high density EPS, that, after it's transformation and shaping process, it's possible to install a lot of pool accessories. Each pool is finished with it's waterproofing and delivered to site with the pool/spa's certification, the pool/spa then once installed is ready for tiling.

Bespoke pools and spa's are also available. If access is an issue, then pool and spa's can be manufactured in modular format, these modules can then be jointed, and the waterproof coating applied on site.







Please ask sales for further details

PREFORMATI

Preformati







Please ask sales for further details





- 28 Pool Access Ladders
- Pool Access Exit grab rails
- 85 Pool Access Accessories
- 36 Disabled access ladders
- 38 Handrails
- 39 Handrail brackets
- 39 Lifequard chair
- 40 Life saving accessories
- 40 Diving boards
- 41 Showers
- 44 Modular overflow grating





POOL ACCESS - LADDERS

111

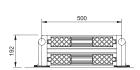
Elegance ladders

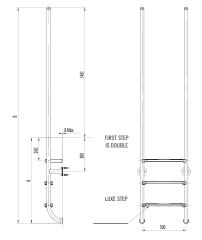
Elegantly designed stepladder with vertical bars that provide easier access to the pool. Manufactured in AISI 316 with 2 anchors. The ladders incorporates a double step with non-slip material for added safety and comfort. Available in 3 or 4 steps. Comes with a 3 year guarantee.

	group	Code	Unit £
Elegance Stainless Steel 3 steps ladder 4 steps ladder	1	45782	613.00
	1	45783	662.00

Code	Steps	Α	В
45782	2 + 1 safety	960	2421
45783	3 + 1 safety	1220	2671







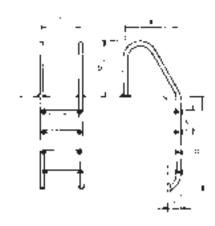
Ladders without the commercial pool icon are only recommended for residential pools.





Top Double tread in accordance with BS EN 13451, ladder width 500 mm. Handrails in hand polished Stainless Steel (Ø 43 mm). Treads and rails in Stainless Steel AISI-316. Complete with fixing anchors and earth connection.

Treads	Α	В	С	D	E	F
2	650	750	250	710	180	500
3	650	750	250	960	180	500
4	650	750	250	1210	180	500
5	650	750	250	1460	180	500





3	treads	ladder
4	treads	ladder
5	treads	ladder

Discount group	Code	Unit £
J	LUK000017	486.00
J	LUK000018	543.00
J	LUK000019	595.00



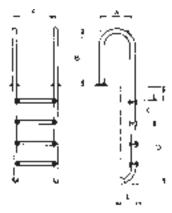
Ladders without the commercial pool icon are only recommended for residential pools.

POOL ACCESS - LADDERS

Muro model ladder

Ladder width 500 mm. Handrails in hand polished Stainless Steel (Ø 43 mm). Treads and rails in Stainless Steel AISI-316. Complete with fixing anchors and earth connection.

Treads	Α	В	С	D	E	F
2	318	620	260	700	148	500
3	318	620	260	960	148	500
4	318	620	260	1220	148	500
5	318	620	260	1480	148	500





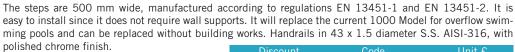
	group		
2 treads ladder	J	05480	376.00
3 treads ladder	J	05481	434.00
4 treads ladder	J	05482	497.00
5 treads ladder	J	05483	555.00

Deluxe treads are also available in AISI-304 under special order.



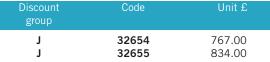
Not to be used with anchors 00043 - 08727 - 18243

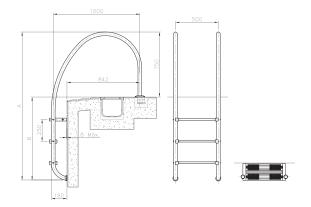
Ladder model for overflow swimming pool



3 treads 4 treads

Code	Treads	Α	В
32654	3	1710	960
32655	4	1960	1210





POOL SURROUND EQUIPMENT



POOL ACCESS - LADDERS



Non-slip double safety tread pre 2018



Complete with wedge anchor fixings and top double safety tread in accordance with BS EN 13451. Rails and non-slip DELUXE treads in AISI-316.

	500
~	
192	

Discount group	Code	Unit £
J	07603	113.00



Double non-slip safety step post 2018

AISI-316L stainless steel with bright satin finish. For all in-ground pool ladder models.

Discount group	Code	Unit £
J	70662	114.00





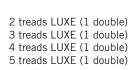
Split S.S. pool ladder



group

J

J



Code	Treads	Α	В	С
08090	2	700	148	260
08091	3	960	148	260
08092	4	1220	148	260
08093	5	1480	148	260



Unit £

375.00

437.00

508.00

572.00

0 28-2

Code

08090

08091

08092

08093



POOL ACCESS - LADDERS



Above-ground pool safety ladder with platform

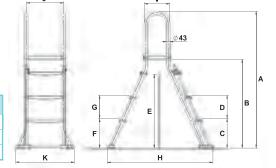
Ladder manufactured in AISI-304 stainless steel Ø43 pipe with a bright satin finish and plastic treads. White steps and plastic platform. Non-slip steps and platform. Safe pool access. Ladder maximum load: 150 kg (recommended to change plastic treads every 5 years).

For above-ground pool height

1.20 or 1.35 m

1.50 m

Discount group	Code	Unit £
]]]	67656 67657 67658	696.00 730.00 810.00



Code	Steps	Α	В	С	D	Ε	F	G	Н	- 1	J	K
67656	3	1856	1204	400	317	1000	400	317	1433	344	506	797
67657	4	2094	1442	350	285	1350	350	285	1644	344	506	808
67658	5	2378	1727	350	285	1500	350	285	1899	344	506	805

POOL ACCESS - EXIT GRAB RAILS



800 x 800 mm model

In polished S.S. AISI-316 43 mm tube. Exit grab rails supplied as a pair complete with fixing plates, gaskets, screws and rawl plugs.

Code group With fixing plates (pair) J 05541 416.00 For embedding (pair) J 05540 386.00











In polished S.S. AISI-316 43 mm tube. Exit grab rails supplied as a pair complete with fixing plates, gaskets,

screws and rawl plugs.	Discount group	Code	Unit £
With fixing plates (pair)	J	05542	440.00





475



POOL SURROUND EQUIPMENT



POOL ACCESS - EXIT GRAB RAILS



470 x 800 mm with rectangular base plate model



In polished S.S. AISI-316 43 mm tube. Exit grab rails supplied as a pair complete with fixing plates, gaskets, screws and rawl plugs.

1 0	Discoulit	Code	UIIIL £
	group		
With fixing plates (pair)	J	05543	440.00





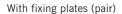


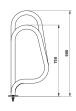
Crossover model

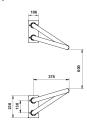


In polished S.S. AISI-316 43 mm tube. Exit grab rails supplied as a pair complete with fixing plates, gaskets, screws and rawl plugs.

Discount group	Code	Unit £
J	05544	491.00







Parallel model



In polished S.S. AISI-316 43 mm tube. Exit grab rails supplied as a pair complete with fixing plates, gaskets, screws and rawl plugs.

	group	Code	Unit £
For fixing with anchor 00143 (not included)	J	00110	496.00

Conforms to BS EN 13451







In polished S.S. AISI-316 43 mm tube. Exit grab rails supplied as a pair complete with fixing plates, gaskets, screws and rawl plugs.

rews and rawl plugs.	Discount group	Code	Unit £
r fixing with anchor 00143 (not included)	J	00111	496.00



For





POOL ACCESS - EXIT GRAB RAILS



Extra reach grab rail

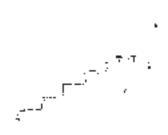
Polished S.S. AISI-316. \emptyset 43 mm tube (1 unit).

For embedding (anchors not included)
With flanges (elastic gaskets, fixing plugs, and screws)

Code	Α	В	С
07780	1250	800	203
07781	1250	800	203



group		
1	07780 07781	245.00 296.00



group



Grab rails

Polished S.S. AISI-316. Ø 43 mm.

For embedding (Pair). Length. 1220 mm (Pair). Length. 1524 mm
With flanges (gaskets, fixing plugs, and screws)
(Pair). Length. 1220 mm
(Pair). Length. 1524 mm

L	Α	В
1220	800	608
1524	800	855



402.00

423.00

553.00

572.00

	-	ı	
			1
	A trans		
•			•
:			

00034

00035

00036

00037

POOL SURROUND EQUIPMENT



POOL ACCESS - EXIT GRAB RAILS





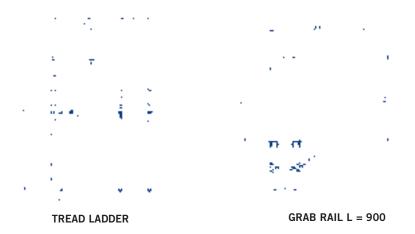
Stainless Steel Handrails

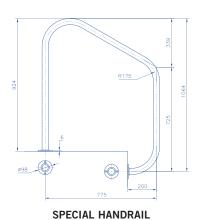
Polished Ø 43 mm AISI-316L stainless steel pipes. With fixing plates (including gaskets, screws and wall plugs).

	Discount group	Code	Unit £
Length 0.5 m	j	00051	138.00
Length 1 m	J	00052	170.00
Length 2 m	J	00053	227.00
Length 2.5 m	J	00054	258.00

Ladders and grab rails made to measure

Stainless steel ladders and handrails can be modified to suit your requirements.





NB: AstralPool Stainless Steel products, particulary those with welded plates, will not be covered under guarantee if used in water treated with salt electrolysis.



POOL ACCESS - ACCESSORIES



Ladder anchor



In PP plastic and fibreglass for \emptyset 43 tube. Complete with earth connection.

	Discount group	Code	Unit £
(Price per pair)	Α	4401010101	61.00



Ladder pivot



In Stainless Steel (AISI-316) for \emptyset 43 tube. For use with anchor.

	Discount group	Code	Unit £
(Price per unit)	J	00043	132.00



Flanged ladder pivot



In Stainless Steel (AISI-316) for Ø 43 tube.

	Discount	Code	Unit £
	group		
(Price per unit)	J	08727	135.00



Reinforced anchor



In Stainless Steel (AISI-316) for Ø 43 mm tube. Complete with gaskets, screws and rawl plugs.

	group	Code	Offit £
(Price per pair)	J	18243	263.00



Anchor with locking bolts



In Stainless Steel AISI-316 Ø 43 mm tube.

	group	Code	Omt 2
(Price per unit)	J	00143	168.00



Ladder foot pad



Made in soft PVC, angle can be adjusted by rotating the ball, for 43 mm tube.

	_	•	•	_			
					Discount	Code	Unit £
					group		
(Price per unit)					J	00045	11.00



Escutcheon cover

In Stainless Steel AISI-316. For Ø 43 mm tube.

	Discount group	Code	Unit £
(Price per unit)	J	05547	8.00



POOL ACCESS - ACCESSORIES



Stainless steel cleaner-polish

Stainless steel cleaner-polish. It removes stains and degreases all types of stainless steel surfaces.

	Discount group	Code	Unit £
1 litre	G	72845	16.00
5 litres	G	72846	53.00

DISABLED ACCESS LADDERS



Hydraulic chair lift

Frame mostly made in Stainless Steel AISI-316 with a central hydraulic mechanism and a seat, also incorporates a ladder for the assistant. For correct hydraulic operation a minimum 3.5 kg/cm² water supply pressure is required.

	group	Oode	Offic 2
Rails L-650	J	28619	1,760.00
Rails L-1000	J	28620	1,760.00
Cylinder	J	28621	2,821.00
Components	J	28622	3,582.00

INSTALLATION:

The external fixings consist of 2 metal anchors (supplied with the unit) and the 2 internal fixings are adjustable which allows the height to be altered for different types of swimming pool surround.



DISABLED ACCESS LADDERS







Picture not accurate with stainless treads

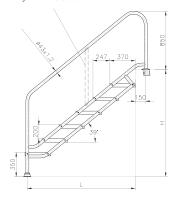
Pool ladders of 500 mm width with Stainless Steel Treads

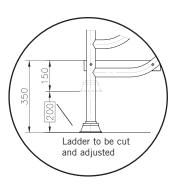
In Stainless Steel AISI-316, with Stainless treads. Complete with 4401010101 fixing anchors.

grou	unt Code Unit £ IP
4 treads J 5 treads J 6 treads J 7 treads J 8 treads J	E-134/19 3,729.00 E-135/19 4,178.00 E-136/19 4,744.00 E-137/19 5,525.00 E-138/19 6,184.00

500 model	TREADS	Н	L
E-134/19	4	950 - 1150	1075
E-135/19	5	1150 - 1350	1325
E-136/19	6	1350 - 1550	1570
E-137/19	7	1550 - 1750	1820
E-138/19	8	1750 - 1950	2065

Vertical reinforced tube only in 7 & 8 treads





Stainless Tread with fixings



Discount group	Code	Unit £
J	V-128/19	346.00



PMR ladder for public pools

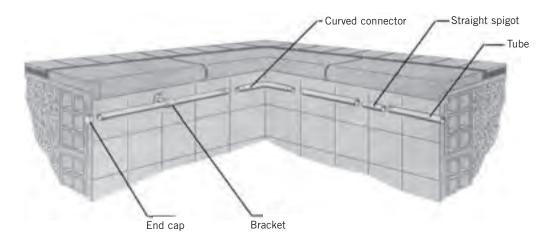
Public ladder manufactured in AISI-316L stainless steel. Polished finish. Step with non-slip punching.



	Discount group	Code	Unit £
3 steps ladder	J	64894	3,425.00
4 steps ladder	J	64895	4,069.00
5 steps ladder	J	64896	4,705.00
6-step ladder	J	64897	5,331.00
7-step ladder	J	64898	5,953.00
8-step ladder	J	64899	6,579.00

POOL SURROUND EQUIPMENT

HANDRAILS



All handrail and support fixtures shown are in polished Stainless Steel Ø 43 mm tube.



Straight handrails

Sealed ends. In S. S. AISI-316.



Discount Code Unit £ group J 05545 73.00 05545200 146.00 J 05545300 218.00 05545500 364.00



09452

Extras





Joining spigot

End caps

Curved handrail joining spigot

In S. S. AISI-316. For joining Ø 43 mm tube.

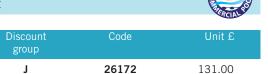
group	0000	ome 2
1 1 1	09452 11286 08014	65.00 105.00 19.00



Adaptor kit for pool liner retaining bracket

In S. S. AISI-316.

Adaptor kit for pool liner retaining bracket







HANDRAIL BRACKETS



Open flanged bracket



For Ø 43 mm tube. In S.S. AISI-316. Supplied with gaskets, rawl plugs, and screws.

Discount group	Code	Unit £
J	08013	60.00



Closed flanged bracket



For \emptyset 43 mm tube. In S.S. AISI-316. Supplied with gaskets, rawl plugs, and screws.

Discount group	Code	Unit £
J	07789	71.00



90° angle handrail support



For Ø 43 mm tube. In S.S. AISI-316. Supplied with gaskets, rawl plugs, and screws.

Discount group	Code	Unit £
J	11143	98.00

Code

56993

56994

56995





56994

Lifeguard chair





1,604.00

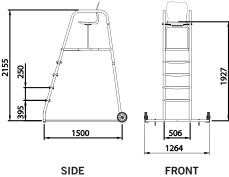
69.00

148.00

Made in Stainless Steel AISI-304, \emptyset 43 mm tube. With dismountable base plate, treads and platform. Base includes wheels. Lifebelt support and sun umbrella support to be ordered as separate items.

			group
Lifeguard chair Lifebelt holder Parasol holder			1 1





POOL SURROUND EQUIPMENT



LIFE SAVING ACCESSORIES



Life saving hook



In Stainless Steel AISI-304. For use with telescopic handles 01361, 01362, 01363, & 15838 via butterfly

Discount group	Code	Unit £
J	01368	115.00



Life Buoy



In orange plastic. Exterior Ø 730 mm.

Discount group	Code	Unit £
J	01369	171.00



Lifebelt holder



In Stainless Steel AISI-304.

Lifebelt holder Post for holder

group	Code	Unit £
)	01370	109.00
J	01371	147.00



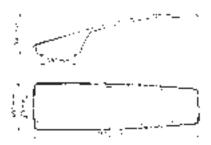
DIVING BOARDS



Dynamic Diving Board

With highly resistant gel coated surface which remains flexible even after UV exposure and adverse weather conditions. Also new non-slip surface covering entire length of board with the addition of water repellant, non-slip adhesive strips over the spring area for maximum safety. Supplied with anchor and fixings.

	Discount group	Code	Unit £
Length 1 61 m Width 0 46 m	1	21392	864 00







SHOWERS

Niagara shower

Polished Stainless Steel AISI-304 shower with 1 square shower-head (150 mm x 150 mm) and 1 valve.

Discount group	Code	Unit £
J	53872	858.00







SHOWER HEAD

VALVE



Niagara touchless shower



The Niagara touchless shower incorporates a proximity sensor that works with battery for turning on the shower without contact. Its minimalist design and the high quality of its materials provide you with an elegant and modern image.

TECHNICAL FEATURES:

- Made of AISI-304L polished stainless steel
- Water inlet connection 1/2" BSP INT
- Ground anchoring with screws
- Touchless system with sensor detection angle 15 degrees (conical)
- 6V DC Power supply (4xAA 1.5V). Batteries not included.
- Sensor protection class IP67
- Life test 500.000 cycles
- Working pressure 1-4 bar
- Max. temperature water 75°C

Discount group	Code	Unit £
J	74102	1,105.00

Niagara touchless shower





SENSOR



NB: AstralPool Stainless Steel products, particulary those with welded plates, will not be covered under guarantee if used in water treated with salt electrolysis.

POOL SURROUND EQUIPMENT



SHOWERS



Shower with timer

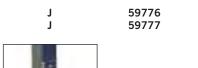


683.00

975.00

Showers specially designed to be installed in facilities with a high footfall (public and semi-public pools). AstralPool showers for public facilities are characterised by their highly resistant materials, considered vandal-proof, and the water savings made thanks to their built-in flow limiters.

Shower with Timer and 1 Showerhead
Shower with timer, 1 showerhead and footwash tap







PUSH BUTTONS



group

SHOWER HEAD

FOOTWASH

Angel shower with footwash

Polished Stainless Steel AISI-304 shower (diameter 43 mm) with 1 chromed and anti-lime scale shower-head, 1 valve and footwash tap.

Discount group	Code	Unit £
J	52718	295.00

Angel shower footwash







SHOWER HEAD

VALVE

FOOTWASH





SHOWERS



Angel

AISI-304L polished stainless steel (\emptyset 43 mm) shower with 1 chrome anti-limescale showerhead and 1 flow opening valve. With 00107 anchoring fixture incorporated.

	Discount group	Code	Unit £
Angel Shower	J	52717	270.00





SHOWERHEAD VA



Angel Shower with 2 shower heads

AISI-304L polished stainless steel (\emptyset 63 mm) shower with 2 chrome anti-limescale showerheads and 2 flow opening valves. With 27333 anchoring fixture incorporated.

	Discount group	Code	Unit £
Angel Shower with 2 shower heads	J	59775	665.00





SHOWERHEAD

VALVE



MODULAR OVERFLOW GRATING

GENERAL NOTE FOR ALL TYPES OF MODELS

Made in PP, stabilised against UV rays. Standard white colour.

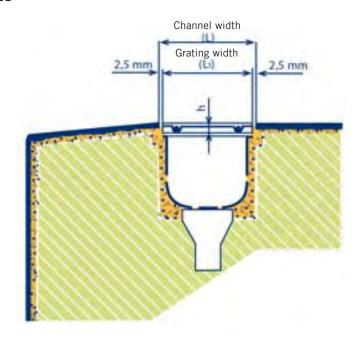
These are supplied as modules of tiles for straight or curved runs (external radius of 1 or 2 metres). The tiles click together with a male-female pressure fit permitting a certain amount of flexibility in assembly which absorbs any expansion which may occur when the tiles are exposed to heat fluctuations.

For all types of grating it is necessary to construct the channel 5 mm wider than the grating itself, to allow for ease of removal and expansion.

Channel width	Grating width
200	195
250	245
300	295
350	345

Height of grating (h) varies according to model.

- Longitudinal model h = 24 mm
- Traversal model h = 22 mm and h = 35 mm





Parallel grating tile

For clicking together same types of male-female tiles (5 units = 1.024 m).



Discount group	Code	Unit £
Α	05581	16.00
Α	05582	16.00
Α	05583	16.50
Δ	05584	17.00



End piece kit for parellel grating corners

Comprising 1 finished half tile & 1 Stainless Steel grating profile, should cutting be necessay.





Discount group	Code	Unit £
Α	16064	57.00
Α	16065	64.00
Α	16066	65.00



MODULAR OVERFLOW GRATING



Grating support profile



Suitable for 22, 24 and 35 mm high grating. Made in plastic. Supplied in 2 m lengths. Inside measurement

21	Discount group	Code	Unit £
Price per 2 m length	Α	00224	15.00



Parallel grating tile in Stainless Steel





Parallel grating tile in AISI-316 Stainless Steel for deck level pools. Designed to ensure the pool surround area is kept dry. A channel 5mm greater than the tile width should be constructed to ensure good seat adjustment. The straight tiles measure 500 mm in length, although other lengths are available on request.

	Discount group	Code	Unit £
Stainless Steel tile 195 mm	J	32415	202.00
Stainless Steel tile 245 mm	J	32416	232.00
Stainless Steel tile 295 mm	J	32417	252.00
Stainless Steel tile 345 mm	J	32418	271.00



Modular grating for Straight or Curves

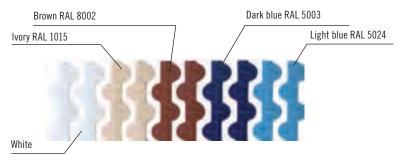


PP material. Snaps together on central spine allowing for flexibility between tiles. According to EN-13451-1 standard (8 mm). Five colours available. 53 units per metre. Standard supplied in white.

	group		
MODULAR GRATING			
Height 22 mm, width 195 mm	Α	34190	1.50
Height 22 mm, width 245 mm	Α	34191	1.60
Height 22 mm, width 295 mm	Α	34192	1.60
Height 22 mm, width 335 mm	Α	34193	1.90
REVERSIBLE MODULAR GRATING			
Height 35 mm, width 195 mm	Α	34194	1.50
Height 35 mm, width 245 mm	Α	34195	1.60
Height 35 mm, width 295 mm	Α	34196	1.60
Height 35 mm, width 335 mm	Α	34197	2.00



Grating is also now available in black and grey



Colour	Code
White	-
RAL 1015	CL90
RAL 8002	CL109
RAL 5003	CL60
RAL 5024	CL 108

POOL SURROUND EQUIPMENT



MODULAR OVERFLOW GRATING



Modular transversal grating for straight or curves



Made of PP stabilised against UV rays. Assembled by fitting the modules together. Total of 45 units per metre.

	group	Code	Offit 2
MODULAR GRATING Height 22 mm, width 195 mm Height 22 mm, width 245 mm Height 22 mm, width 295 mm Height 22 mm, width 335 mm	A A A	11107 11108 19202 19203	1.40 1.70 1.70 2.00
REVERSIBLE MODULAR GRATING Height 35 mm, width 195 mm Height 35 mm, width 245 mm Height 35 mm, width 295 mm Height 35 mm, width 335 mm	A A A	00220 00221 00222 00223	1.50 1.70 1.70 2.00



90° corner tiles for overflow channels



Made from injected polypropylene, in white.

Col		lable	request

Please note measurement using shorter side

	Discount group	Code	Unit £
Height 22 mm, width channel 195 mm Height 22 mm, width channel 245 mm Height 22 mm, width channel 295 mm Height 22 mm, width channel 335 mm Height 35 mm, width channel 195 mm Height 35 mm, width channel 245 mm Height 35 mm, width channel 295 mm	A A A A	22379 22380 22381 22382 22383 22384 22385 22386	47.00 57.00 72.00 87.00 50.00 60.00 76.00 91.00
Height 35 mm, width channel 335 mm	Α	22300	91.00



POOL SHELL EQUIPMENT

- 48 Pool shell components Range of colours
- 50 Concrete pools Skimmers 25 l
- 52 Concrete pools Skimmers 17.5 l
- Concrete pools Skimmers accessories
- Concrete pools Stainless Steel skimmers
- Concrete pools Skimmer accessories in S.S.
- 58 Concrete pools Level regulator
- Concrete pools Main drains
- Concrete pools Main drain accessories
- Concrete pools Drain grilles
- Concrete pools ABS plastic inlets
- 68 Concrete pools Stainless Steel inlets
- 69 Concrete pools Wall conduits
- 70 Liner and prefabricated pools Skimmers 25 l
- 72 Liner and prefabricated pools Skimmers 17.5 l
- 76 Liner and prefabricated pools Main drains
- 80 Liner and prefabricated pools ABS plastic inlets
- 85 Liner and prefabricated pools Stainless Steel inlets
- 86 Liner and prefabricated pools Wall conduits
- 88 Installation diagrams



POOL SHELL MATERIALS RANGE OF COLORS

VERSATILITY AND COLOR FOR YOUR POOL

A wide range of recessed components in different colors for a perfect finish in your prefabricated pool.



STAINLESS STEEL POOL FITTINGS

A FULL RANGE FOR CONSTRUCTION

Using stainless steel in AISI 316-L pools has many advantages in comparison with traditional materials.

- Better resistance to high and low temperatures, no deformation.
- ✓ Better looking quality finishes.
- Doesn't age due to exposure to sunlight.
- ✓ Easy to clean.
- ✓ Stainless steel is environmentally friendly and 100% recyclable.



This is why AstralPool, a world leader in the manufacture and supply of pool materials, is launching a line of embedding products in high quality stainless steel (AISI 316-L), ideal for the construction, refurbishment and upgrade of your pool.



LumiPlus FlexiNiche



High Water Level Skimmer



Embellishers to ABS pool fits













EN 16582-1 EN 16713-2

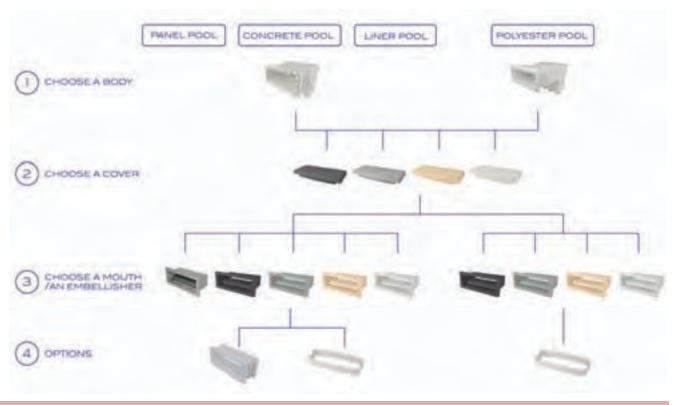
CONCRETE POOLS - SKIMMERS 25 L

Designed perfectly. Integrated evenly.

- Fully integrated.
- Quiet operation. Easy maintenance.

Selection table





Installation

How to install skimmer mouth?



How to integrate cover in the pool surround material?



How to assembe skimmer UNIK?

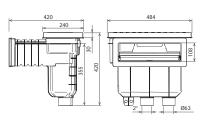


How to glue panels version?

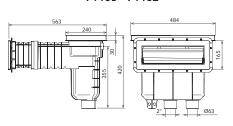


Dimension of the Kits

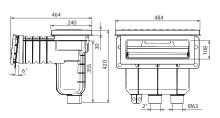
74457 - 74458 - 74459 - 74460



74461 - 74462



74463 - 74464





CONCRETE POOLS - SKIMMERS 25 L

Skimmer Unik









The skimmer Unik is a solution that allows maximum flexibility in terms of colors of the visible parts. Choose amongst the components according to your requirements.



1 SKIMMER BODY - ABS	WHITE COLOR	Code	Unit £
SOUNT OF SECONDARY	Skimmer body CONCRETE POOL WITH INSERTS	74831	253.00

^{*} Delivered with 2 sets of screws DIN 7982 A4 5.5x25 and 32

(2) skimmer covers - ab:	Code	Unit £	
NAL AO	Skimmer cover WHITE	74838	90.00
	Skimmer cover BEIGE	74838CL090	102.00
	Skimmer cover GREY	74838CL129	102.00
AS COMM.	Skimmer cover ANTHRACITE	74838CL144	102.00

3) SKIMMER MOUTH / E	MBELLISHER	Code	Unit £
	3.1 - FOR CONCRETE LINER AND PANEL POOLS		
	Standard ABS WHITE	74839	49.00
BB	Standard ABS BEIGE	74839CL090	56.00
- No.	Standard ABS GREY	74839CL129	56.00
	Standard ABS ANTHRACITE	74839CL144	56.00
	Standard Stainless Steel A316-L	74806	poa
	3.2 - FOR POLYESTER POOLS		
WAL AD	6° Mouth - WHITE	74840	50.00
	6° Mouth - BEIGE	74840CL090	58.00
	6° Mouth - GREY	74840CL129	58.00
SECOMME	6° Mouth - ANTHRACITE	74840CL144	58.00

KIT SKIMMER UNIK ABS C	OLOR WHITE: BODY + COVER + EMBELLISHER	Code	Unit £
RECOMMENDED TO SECONMENDED TO SECONM	Skimmer UNIK CONCRETE POOL WITH INSERTS	74458	362.00

SKIMMER OPTIONS - VALID FOR	THE SKIMMERS PARTS SOLD SEPARATLELY OR THE FULL SETS	Code	Unit £
SONAL ADV	EXTENDED Mouth Standard WITH INSERTS	74842	125.00
	EXTENDED Mouth POLYESTER POOL 6° WITH INSERTS	74844	181.00
PECONIUS	COVER EXTENSION RING	74845	29.00



CONCRETE POOLS - SKIMMERS 17.5 L

All of the components that are exposed in this range of skimmers come with a UV treatment. Made of ABS, they come with a weir flap and a flow regulator check valve. Bottom suction nozzle connection: $1\frac{1}{2}$ " inner thread. Simultaneous connection to the main drain: 2" inner thread. Overflow connection: Ø 32 mm. Round cover with spring clip fastening system. The height of the cover can be adjusted and turned through an extended throat, so that it sits perfectly flush with the coping stone.

Recommended flow rate: 7.5 m³/h. It is recommended that one skimmer be installed for every 25 m² of











58707CL144

NORM skimmer

17L skimmer range suitable for installation in public and private pools. Manufactured in ABS with UV treatment, it comes with a weir flap, flow regulator, lid height adjustment and basket. The water inlet is 495 x 80 mm. Recommended flow rate of 7.5 m³/h. Install one skimmer every 25 m² of water line surface area. Connections under 1 ½" and 2", water overflow connection of Ø 40 mm.

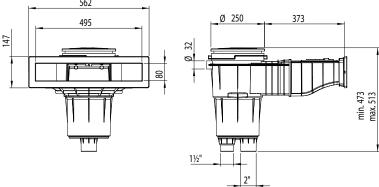
	group	Oouc	Sint 2
NORM 17,5L skimmer			
White	Α	58707	201.00
Beige	Α	58707CL090	217.00
Light grey	Α	58707CL129	217.00
Anthracite grey	Α	58707CL144	217.00
562			
495	250 373		

Discount

group

Code

11306





Skimmer with standard throat



Unit £

138.00

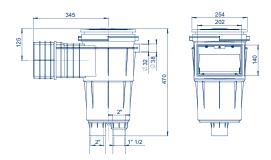
Square lid	Α
248 921 800 800 044	254 202 00 00 00 00 00 00 00 00 00 00 00 00

CONCRETE POOLS - SKIMMERS 17.5 L

Skimmer with extended throat

Square lid Code Unit £
group

A 11307 163.00



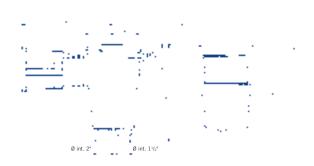


Skimmer with wide throat and face plate

Square lid



Discount group	Code	Unit £
Α	11304	178.00





CONCRETE POOLS - SKIMMERS 17.5 L

73158

73161

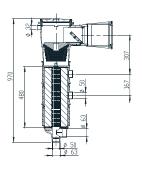
Filtering Skimmer

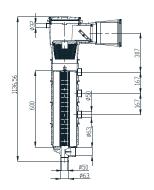


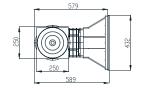
17.5 L skimmer with cartridge system integrated. Made of ABS with UV treatment. Skimmer flap, adjustable lid height, skimmer basket and 2 cartridge filters. Upper access water connection \emptyset 32 m, bottom connections of \emptyset 63 mm and lateral of \emptyset 50 mm. Lateral connections are for connecting suction nozzles.

Use the inlet insert to change the colour. This insert could be installed without changing the skimmer mouth.

group	55.00	22	
Α	73158	753.00	
Α	73161	796.00	
Α	73166CL129	59.00	
Α	73166CL144	59.00	
Α	73166CL090	59.00	
Α	73164	202.00	
Α	73165	210.00	
	A A A A	A 73158 A 73161 A 73166CL129 A 73166CL144 A 73166CL090	A 73158 753.00 A 73161 796.00 A 73166CL129 59.00 A 73166CL144 59.00 A 73166CL090 59.00 A 73164 202.00







Skimmer with extended wide throat and face plate 422 x 209 mm



	group		
quare lid	Α	11305	206.00
Ø int. 2* Ø int. 1½*			



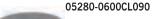
Versions of the 17.5 litre skimmer can be supplied with extensions much larger than those previously stated. This could be of particular interest when using wider coping stones than the usual width.

^{*2-}year limited warranty - please refer to the instruction manual



CONCRETE POOLS - SKIMMERS ACCESSORIES





05280-0600CL129

05280-0600CL144

05280-0700CL144



Covers for 17.5 I skimmers

Round cover, round face plate	
White A 4402010507 32.00	
Beige A 05280-0600CL090 34.00	
Light grey A 05280-0600CL129 34.00	
Anthracite grey A 05280-0600CL144 34.00	
Round cover, square face plate	
White A 4402010510 39.00	
Beige A 05280-0700CL090 41.00	
Light grey A 05280-0700CL129 41.00	
Anthracite grey A 05280-0700CL144 41.00	



05280-0700CL129

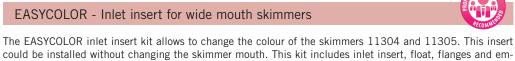
74035CL129



74035CL1144

74035CL090

EASYCOLOR - Inlet insert for wide mouth skimmers





bellisher.

group	Code	Unit £
Α	74035CL090	87.00
Α	74035CL129	87.00
Α	74035CL144	87.00



17.5 It skimmer extension ring to extend by 40mm

An additional ring for better adjusting and leveling 17.5 skimmer lid to the floor level. Made in ABS. Allows total flexibility to ensure lid frame is flush with any surface.

Discount group	Code	Unit £
Α	18153	9.00



Floating weir assembly in ABS

Complete with basket in white ABS.	Discount group	Code	Unit £
For 15 litre skimmers	A	00253	18.00
For 17.5 litre skimmers	A	05703	18.00



CONCRETE POOLS - STAINLESS STEEL SKIMMERS

SLIM: High water level skimmer



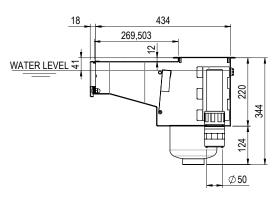
High water level skimmer allows high water level in the pool (+/- 4 cm) giving an infinite pool effect. The water line is located very close to the top of the pool. Entirely made of AISI-316L. All models are equipped with Ø50 mm overflow and have a housing to mount a water level regulator - item 73453 - not included. Also compatible with the most standard water levels of the market. With connection for equipotential connection. It also includes flanges for prefabricated pools. Recommended flow 7.5 m³/h. Basket capacity 1.2 L.

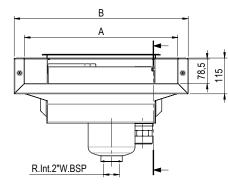




Mouth width 500 mm Mouth width 650 mm

Discount group	Code	Unit £
J	73501	1,666.00
J	73502	1.736.00







Skimmer inox A-500 Large mouth

In Aisi-316 stainless steel. With Ø50mm overflow, basket and lid in stainless steel, both included. A level regulator valve 00256 can be fitted. Flow recommended 7.5 m³/h.

	Discount group	Code	Unit £
Skimmer width 500 mm	1	56313	1,602.00
Skimmer width 650 mm	1	56316	1,779.00



A-100 S.S. skimmer

Skimmer

In S.S. AISI-316. With Ø 50 mm overflow. Provided with space for installing water level regulating valve 00256. With earth connection. Recommended flow: 7.5 m³/h.

Discount

group

J

Code

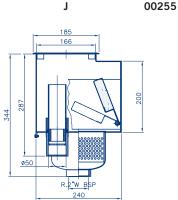
00254

Unit £

993.00

109.00

Decorativ	e frame for	above			
-	921	197	-		
221		+	+	142	344





CONCRETE POOLS - STAINLESS STEEL SKIMMERS

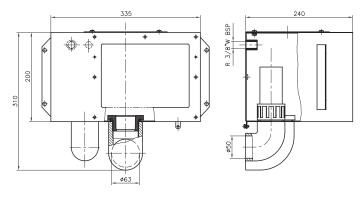


Skimmer body A-201



In S.S. AISI-316. With Ø 50 mm overflow. Skimmer housing without telescopic lid. Provided with space for fitting water level regulating valve 00256. With earth connection.

	Discount group	Code	Unit £
Skimmer body	J	07520	835.00
Skimmer basket for above		07521	383.00



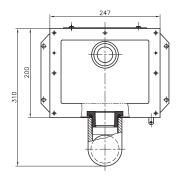


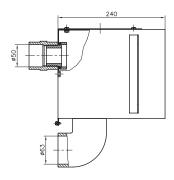
Skimmer body A-202



In S.S. AISI-316. With Ø 50 mm overflow. Skimmer housing without telescopic lid (required). With earth

connection. Recommended flow: 7.5 m ² /n.	Discount group	Code	Unit £
Skimmer body	J	07610	632.00
Skimmer basket for above		07521	383.00







CONCRETE POOLS - SKIMMER ACCESSORIES IN S.S.



Telescopic lid

In S.S. AISI-316. For skimmer models A-201, A-202 and A-400. Square lid 180 x 180 mm. Adjustable height

from 60 to 110 mm.

Discount group	Code	Unit £
J	07524	150.00



Liner adaptor kit

For skimmer A-100, A-201 and A-202 (Code 00254, 07520 and 07610)

Includes 2 gaskets, faceplate in S.S. AISI-316 and fixing screws.

Discount group	Code	Unit £
J	07525	196.00



Level regulating valve (Auto top-up mechanism)

Valve to be fitted into all S.S. skimmer models, except in model A-202. Adjustable buoy. Connection 3/8".

Discount group	Code	Unit £
J	00256	43.00

CONCRETE POOLS - LEVEL REGULATOR



Level regulator (Auto top-up)

Made in ABS, with knockout side or bottom outlet. Adjustable height lid frame. Conn. 50 mm.

Discount group	Code	Unit £
Α	15862	107.00

For $1^1/_2$ " connection an 0531451 fitting is required.



Level regulating valve

Level regulator valve compatible with the stainless steel skimmers of SLIM range. Compatible with items: 56313, 56316, 72743, 72744, 73501 73502. With 3/8" side connection and adjustable floater.

Discount group	Code	Unit £
Α	73453	98.00



Main Drains must be arranged so that there is not risk of bathers being drawn towards them or trapped there It is recommended that a minimum of 2 x Main Drains are installed 2 metres apart. All flow rates listed do not exceed 0.5 m/sec velocity.

CONCRETE POOLS - MAIN DRAINS

- Water passing speed 0.5 m/sec
 Maximum suction velocity 1.5 m/sec
 Minimum distance between drains: >2 m



56378CL129







56378CL144

NORM main drain

Range of main drains suitable for public and private swimming pools. Supplied with flat or antivortex grilles. Manufactured in white ABS with UV treatment, fitted with a 2" side outlet and a 1 1/2" bottom outlet connection, bottom outlet covered by semi-die cut tab. Max. flow rate: 15 m³/h.

Flat grille - White
Flat grille - Beige
Flat grille - Light grey
Flat grille - Anthracite grey
Antivortex grille - White
Antivortex grille - Beige
Antivortex grille - Light grey
Antivortex grille - Anthracite grev

Discount group	Code	Unit £
Α	56378	51.00
Α	56378CL090	47.00
Α	56378CL129	47.00
Α	56378CL144	47.00
Α	56379	44.00
Α	56379CL090	48.00
Α	56379CL129	48.00
Α	56379CL144	48.00
A A A A	56378CL090 56378CL129 56378CL144 56379 56379CL090 56379CL129	47.00 47.00 47.00 44.00 48.00 48.00







EN 16713-2





Round Ø 270 mm main drain with ABS grille

Bottom 1 ½" and side 2" outlets. Fully manufactured in white ABS. Side outlet for plug to test watertightness. Bottom outlet with plug and possibility of fitting a hydrostatic valve code 00277 (see page 62) and drainage tube (code 21581, see page 62). Ø 250mm suction grille. Max. flow rate: 13 m³/h.

	Discount group	Code	Unit £
Standard thread	Α	01466	47.00



Round main drains 2" outlet

Body and grill in ABS. Grill fitted using screws. Max. flow rate: 13 m³/h.



	Discount group	Code	Unit £
Standard thread - White	Α	01467	27.00
Standard thread - Beige	Α	01467CL090	30.00
Standard thread - Light grey	Α	01467CL129	30.00
Standard thread - Anthracite grey	Α	01467CL144	30.00

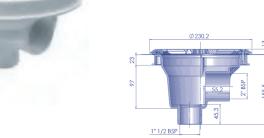


CONCRETE POOLS - MAIN DRAINS

Circular main drain Ø 200 mm with flat grille

Made in ABS. Side connection 2" and bottom connection 11/2" with knockout. Maximum flow: 13 m³/h.

Discount group	Code	Unit £
А	27839	27.00







Square main drain with ABS grille 175 mm x 175 mm. Outlet of 2"

Side connection 2". Body and grille in white ABS. Fixed grille with screws. Maximum flow: 13 m³/h.

Discount group	Code	Unit £
Α	00258	33.00



74097



74097CL090

Main drain grille

Grille to replace the grilles on already installed main drains in private pools. Made of PP plastic. Compatible with main drains 01467, 27837, 27839.



74097CL129



4	
-	
7409	7CL144

White
Beige
Light grey
Anthracite grey

Discount group	Code	Unit £
Α	74097	14.00
Α	74097CL090	17.00
Α	74097CL129	17.00
Α	74097CL144	17.00



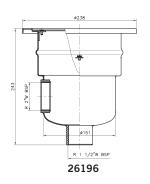


Circular main drain in S.S. Outlet of 2"

Side connection 2". In S.S. AISI-316. Fixed grille with screws. Maximum flow: 13 m³/h.

	Discount group	Code	Unit £
Side connection 2"	J	00268	260.00
Side connection 2" and bottom connection $1^1/_2$ "	J	26196	498.00



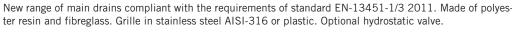


Main Drains must be arranged so that there is not risk of bathers being drawn towards them or trapped there It is recommended that a minimum of 2 x Main Drains are installed 2 metres apart. All flow rates listed do not exceed 0.5 m/sec velocity.

CONCRETE POOLS - MAIN DRAINS

NORM main drain in polyester and fibreglass - 330 mm x 330 mm





			Discount group	Code	Unit £
Grille in S.S. Solvent socket outlet connection	Grille	Flow			
Ø 75 mm	S.S.	15 m ³ /h	J	20282N	589.00
Ø 90 mm	S.S.	23 m ³ /h	J	20283N	603.00
Ø 110 mm	S.S.	27 m³/h	J	20284N	615.00

Minimum depth of installation: 1.5 m. Maximum recommended flow rate down drain: 103 m³/h (0.5 m/s).



Model in polyester and fibreglass - 330 mm x 330 mm



Gel coat finish. With optional hydrostatic valve.

			group	Code	OIIIL E
Grille in S.S. AISI-3	16. Slots < 8	3 mm			
Solvent socket	Grille	Flow			
outlet connection					
Ø 75 mm	AISI-316	18 m³/h	J	20282	425.00
Ø 90 mm	AISI-316	27 m ³ /h	J	20283	435.00
Ø 110 mm	AISI-316	33.5 m ³ /h	J	20284	444.00
Max. recommended UV resistant ABS gr		ng to UNE-134	51-1 standard, at 0.5	m/s.	
Solvent socket	Grille	Flow			
outlet connection					
Ø 75 mm	ABS	18 m³/h	J	22359	250.00
Ø 90 mm	ABS	27 m ³ /h	J	22360	256.00
Ø 110 mm	ABS	42 m ³ /h	J	22361	271.00
Ø 125 mm	ABS	45 m ³ /h	J	22362	290.00

Max. recommended flow according to UNE-13451-1 standard, at 0.5 m/s.



Model in polyester and fibreglass - 515 mm x 515 mm



Gel coat finish. With optional hydrostatic valve.

			Discount group	Code	Unit £
Grille in S.S. AISI-3	16. Slots < 8	3 mm			
Solvent socket	Grille	Flow			
outlet connection					
Ø 110 mm	AISI-316	42 m ³ /h	J	20285	591.00
Ø 125 mm	AISI-316	51 m ³ /h	J	20286	600.00
Ø 140 mm	AISI-316	66 m³/h	J	20287	614.00
Ø 160 mm	AISI-316	95 m³/h	J	20288	632.00

Max. recommended flow according to UNE-13451-1 standard, at 0.5 m/s.



Main Drains must be arranged so that there is not risk of bathers being drawn towards them or trapped there. It is recommended that a minimum of 2 x Main Drains are installed 2 metres apart. All flow rates listed do not exceed 0.5 m/sec velocity.





CONCRETE POOLS - MAIN DRAINS

NORM main drain in polyester and fibreglass - 507 mm x 507 mm

Range of drains manufactured in polyester resin and fibreglass. Grille in AISI-316 stainless steel or plastic.

Optional hydrostatic valve.

			group	Code	Oillt E
Grille in stainl	ess steel AIS	SI-316L			
Outlet connectio	n Grille	Flow rate			
to be glued					
Ø 110 mm	AISI-316L	42 m ³ /h	J	20285N	819.00
Ø 125 mm	AISI-316L	51 m ³ /h	J	20286N	831.00
Ø 140 mm	AISI-316L	66 m ³ /h	J	20287N	850.00
Ø 160 mm	AISI-316L	95 m ³ /h	J	20288N	876.00
Ø 200 mm	AISI-316L	103 m ³ /h	J	20289N	945.00

Minimum depth of installation: 1.5 m. Maximum recommended flow rate down drain: 103 m³/h (0.5 m/s).

CONCRETE POOLS - MAIN DRAIN ACCESSORIES



Hydrostatic valve

To alleviate pressure which underground water can cause to build up under the pool shell. It is recommended that a hydrostatic valve & drainage tube are fitted to a main drain.

The Hydrostatic valve threads into the bottom of the main drain. Made in white ABS with screw and spring in S.S. 1½".

Discount group	Code	Unit £
Α	00277	11.00

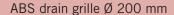


Drainage tube

For hydrostatic valve. $1^1/_2$ " BSP for 01466, 27837 and 27839. In UV resistant ABS.







CONCRETE POOLS - DRAIN GRILLES

Support ring and grille in white ABS. Complete with grille fixing screws. Max. flow recommended: 13 m³/h.

	Discount group	Code	Unit £
ABS drain grille	Α	00280	13.00



Actual item is Stainless Grille and Plastic frame, not as shown



S.S. drain grille Ø 200 mm



Support ring in white ABS, grille in S.S. AISI-316. Complete with grille fixing screws. Maximum flow recommended: 13 m³/h.

	group	Code	onit £
S.S drain grille	Α	00279	66.00



Drain grilles

Grille in stainless steel with frame in plastic. Grilles designed according to standard EN-13451-1:200. Excellent finish. Discount Code Unit £

	group		
Drain grille 252 x 252 mm in S.S. Max. flow rate 15 m³/h	Α	34332	297.00
Drain grille 410 x 410 mm in S.S. Max. flow rate 83 m ³ /h	Α	34334	597.00



Drain grilles



Stainless steel AISI-316 frame. Stainless steel AISI-316 grille. Supplied with grille fixing screws. Other dimensions can be supplied on order. Discount Code Unit £

	group
Max. recommended flow	
15 m ³ /h (0.5 m/s)	J
43 m ³ /h (0.5 m/s)	J
83 m ³ /h (0.5 m/s)	J
$136 \text{ m}^3/\text{h} (0.5 \text{ m/s})$	J
	15 m³/h (0.5 m/s) 43 m³/h (0.5 m/s) 83 m³/h (0.5 m/s)

>		500 x 500
	Φ.	
		CODE
		30764
	իր կոլու իրադրարին իրանական հայաստանում է հայաստանում և հայաստանում և հայաստանում և հայաստանում և հայաստանում Մումուս իրադրարին և հայաստանում և հայաստանում և հայաստանում և հայաստանում և հայաստանում և հայաստանում և հայաստա	30765
	● 10000 010000 01000 0000 0000 0000 000	30766
		30767
	I	

CODE	L	Α
30764	223	187
30765	323	287
30766	423	387
30767	523	487

408.00

442.00

505.00

566.00

30764

30765

30766

30767



MULTIFLOW SYSTEM

The eyeball has been marked with a series of "knock-outs" at 14, 20, and 25, enabling the required flow to be selected at the time of installation. Recommended max flow 4 m/sec., complies with UNE 13451-1: Ø $14 = 2.2 \text{ m}^3/\text{h}$, Ø $20 = 4.5 \text{ m}^3/\text{h}$, Ø $25 = 7 \text{ m}^3/\text{h}$











Return inlet "Multiflow"

To glue into Ø 50 mm 10 bar pipe. Made in white ABS.

	Discount group	Code	Unit £
To glue into Ø 50 mm 10 bar pipe To glue into $1^1/_2$ " class C pipe	A	24413	10.00
	A	06806	10.00



Return inlet "Multiflow"

2" external thread, Ø 50 mm. Made in white ABS. Can be installed with wall conduits: 15658-15659. Grille slots are < 8 mm. Complies with UNE 13451-1.



00295CL144

White
Beige
Light grey
Anthracite grey

Discount group	Code	Unit £
Α	00295	21.00
Α	00295CL090	21.00
Α	00295CL129	21.00
Α	00295CL144	21.00



00295CL129

EN 16582-1 EN 16713-2





EN 16582-1 EN 16713-2



Return inlet "Multiflow"

To glue into Ø 63 mm, 6 bar pipe and onto Ø 50 mm. Made in white ABS. Can be installed with wall conduits: 15661-15660. Grille slots are < 8 mm. Complies with UNE 13451-1.

	Discount group	Code	Unit £
White	Α	00298	19.00
Beige	Α	00298CL090	19.00
Light grey	Α	00298CL129	19.00
Anthracite grey	Α	00298CL144	19.00







NORM return inlet



New range of return inlets compliant with standards EN-13451-1 and EN-13451-3, suitable for installation in public and private pools. Made of white ABS with UV treatment.

	group	Code	Unit £
NORM return inlet for concrete pools	Α	56498	22.00



Return inlet



In white ABS. 3 adjustable positions. (100%, 65%, & 35%). Max. flow complies with UNE 13451-1: 13.5 m³/h.

Discount group	Code	Unit £
Α	15863	27.00



Pool floor return inlet



All-in-one return inlet and suction nozzle. Adjustable flow rate. Made of ABS plastic and screws in stainless steel. Maximum recommended flow rate compliant with standard EN 13451-1: 12 m³/h.

	group
Outer 2" thread, int. Ø 50 mm - White	Α
Outer 2" thread, int. Ø 50 mm - Beige	Α
Outer 2" thread, int. int. Ø 50 mm - Light grey	Α
Outer 2" thread, int. Ø 50 mm - Anthracite grey	Α

group	Code	Oill E
A A A	00303 00303CL090 00303CL129	18.00 19.00 19.00
Α	00303CL144	19.00





Pool floor return inlet with swivel joint



Swivel body in PVC. Cover in ABS. Adjuster screw in POM. Maximum flow rate of 10 m³/h. Fits to Ø 75 mm piping and wall conduit with code number 21248.



Pool floor inlet - White
Pool floor inlet - Beige
Pool floor inlet - Light grey
Pool floor inlet - Anthracite grey

Discount group	Code	Unit £
A A A	22353 22353CL090 22353CL129 22353CL144	28.00 30.00 30.00 30.00









3" adjustable pool floor return inlet



Made of white ABS plastic. Suction. Flow rate adjusted by turning the grille. Suction surface area: 0.015 m². Outer Ø 295 mm wall. Flow rate (0.4 m/s) 20 m³/h. Max. recommended flow rate compliant with standard EN 13451-1: 26 m³/h (0.5 m/s.).

	group	Oode	Sint 2
Grille in AISI-304 stainless steel	Α	08317	173.00
Grille in white ABS	Α	11796	59.00



Inlet suction nozzle for large flows



Inlet nozzles for large flows and they can be also be used as suction nozzle. Inlet flow rate $30m^3/h$ for a maximum water flow velocity of 4m/s according to EN 13451-1 standard. Suction flow rate $5m^3/h$ for a maximum water flow velocity of 0.5m/s according to EN 13451-1 standard. PVC body, ABS grille, PA flange and AISI 304 screws, holes in grille is 8mm according to EN 13451-1 standard. Ø75 or Ø90 pipe connection. The nozzle can be installed into the wall conduit 43590.

	Discount group	Code	Unit £
Inlet/suction nozzle for large flows	Α	41520	42.00
and concrete pools			



Reducing conduit (Net'n'Clean)



Conduit with adjustable internal diameter for solvent welding inlets 22353. Connections are \emptyset 63 mm male and \emptyset 50 mm female solvent socket. Made in white PVC.

Discount group	Code	Unit £
Α	21248	39.00



Suction nozzle

To be glued to \emptyset 63 mm and \emptyset 50 mm piping. Maximum pressure: 6 bar. Made of ABS. $1\frac{1}{2}$ " thread. Recommended for installation with wall conduits: code numbers 15661 and 15660.

	group	Coue	OIIIL E
Standard inlet - White	Α	00300	10.00
Standard inlet - Beige	Α	00300CL090	11.00
Standard inlet - Light Grey	Α	00300CL129	11.00
Standard inlet - Anthrachite Grey	Α	00300CL144	11.00







Concrete vacuum point



2" external thread, Ø 50 mm. solvent internal. Made in white ABS . Plug thread $1^1/2$ ". Can be installed with wall conduits 15658 & 15659.

Discount group	Code	Unit £
Α	00301	12.00

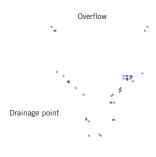


Overflow channel drainage point



Body and grille in ABS. Screws in S.S. To be glued to external \emptyset 63 mm. Due to its design this inlet is particularly suitable for overflow channels. Recommended flow 7 m³/h.

Discount group	Code	Unit £
Α	00302	14.00





Suction nozzle

To be glued to a \emptyset 50 PN 10 pipe. Made of white ABS with $1\frac{1}{2}$ " threaded plug. For end connector 07958 and push fit connector 01393. Recommended for installation with wall conduits (codes 15658 and 15659).

Discount group	Code	Unit £
Α	24415	8.00

Optional colour



CONCRETE POOLS - STAINLESS STEEL INLETS





EN 13451-1-3

EN 16582-1 EN 16713-2

Return inlet with Ø 25 mm ball

1 ½" external thread. Manufactured in AISI-316L stainless steel. Maximum recommended flow according to EN 13451-3 standard: 7 m³/h. Ø 25 mm ball.

	group	Code	Oille 2
Length 35 mm	J	69874	125.00
Length 50 mm	J	69875	126.00
Length 70 mm	J	69876	149.00



Adjustable return inlet

External thread 2". Made in S.S. AISI-316. For both concrete and prefabricated pools. Water flow can be adjusted by the central screw. Recommended max. flow. Complies with UNE 13451-3: $14 \text{ m}^3/\text{h}$.

Discount group	Code	Unit £
J	15839	243.00



Vacuum point

External thread 11/2". Made in S.S. AISI-316. Push fit connection 05684.

	Discount group	Code	Unit £
Length 50 mm	J	16328	82.00
Length 50 mm with lid		21644	114.00



Adjustable concrete inlet

Chrome on brass, grille in S.S. AISI-304.

	group	Code	Sint 2
Max. flow: 12 m³/h Internal thread 2"	1	00312	60.00
Max. flow: 20 m³/h Internal thread 3"	1	00313	140.00



Vacuum point

Chrome on brass with S.S. AISI-304 cover. Push fit. Internal thread (Requires 01392 hose connector).

	Discount group	Code	Unit £
2" push fit	J	00315	67.00
$1^{1}/_{2}$ " push fit	J	00314	46.00
			OMMEN



Vacuum point

Chrome on brass. Internal thread 2". (01395 coupling bushing is required for hose).

	Discount group	Code	Unit £
2" internal thread $1^1\!/_2$ " internal thread)	00317	72.00
	J	00316	79.00





CONCRETE POOLS - WALL CONDUITS

Range of 300 mm long conduits for \emptyset 2" inlets and Multiflow that can be cut to different lengths, depending on the thickness of the pool wall. Made of ABS. The ribs of the end plates have holes for fitting the wall conduit to the pool structure, which makes assembly straightforward.



Wall conduits in ABS

	Discount group	Code	Unit £
Wall conduit in ABS with 2" rear male thread and Ø 50 mm smooth inner wall 2" front female thread nozzles	А	15658	17.00
Smooth \emptyset 59.3 mm front connection for nozzles to be glued to \emptyset 63 mm piping, 6-bar piping and MINI projector (33684)	Α	15661	17.00
Wall conduit in ABS with smooth Ø 63 mm rear connection and smooth Ø 50 mm inner wall 2" front female thread nozzles	Α	15659	17.00
Smooth \emptyset 59.3 mm front connection for nozzles to be glued to \emptyset 63 mm piping, 6-bar piping and MINI projector (33684)	Α	15660	17.00



Wall conduits in PVC

	Discount group	Code	Unit £
Wall conduit in Grey PVC. 150 mm long 2" outer thread + Ø 50 mm inner, 2" inner thread	А	00322	15.00
Wall conduit in Grey PVC. 300 mm long 2" female and male thread connection	Α	00323	21.00
2" rear male thread pipe connection or smooth inner wall for MINI projector (33684)	А	00324	16.00
2" outer thread + \emptyset 50 mm inner, 1½" inner thread	Α	00325	27.00
2" outer thread + Ø 50 mm inner wall, Ø 50 mm inner wall specially for nozzles 00289, 07957, 00304, 00305 and 00306	Α	00326	20.00



Wall conduits in Stainless Steel

	group		
Wall conduit in AISI-304L S.S. Both ends with $1\frac{1}{2}$ " inner thread. With earth connection.			
Length 240 mm Length 340 mm) J	00327 00328	82.00 90.00

Discount











EN 16582-1 EN 16713-2

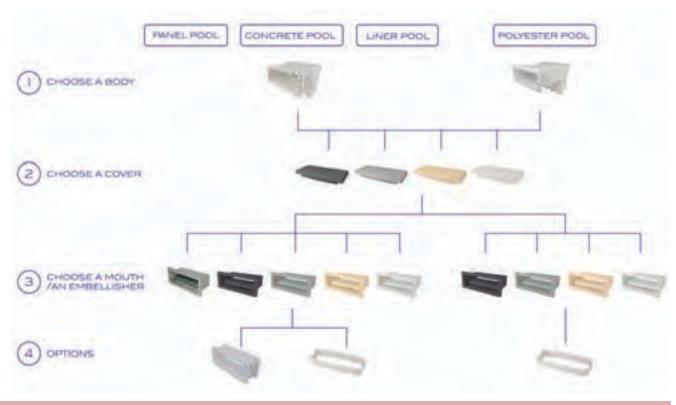
LINER AND PREFABRICATED POOLS - SKIMMERS 25 L

Designed perfectly. Integrated evenly.

- Fully integrated.
- Quiet operation. Easy maintenance.

Selection table





Installation

How to install skimmer mouth?



How to integrate cover in the pool surround material?



How to assembe skimmer UNIK?

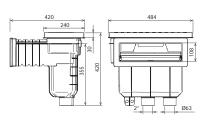


How to glue panels version?

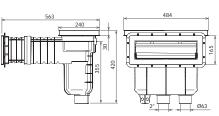


Dimension of the Kits

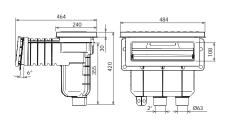
74457 - 74458 - 74459 - 74460



74461 - 74462



74463 - 74464





LINER AND PREFABRICATED POOLS - SKIMMERS 25 L

Skimmer Unik









The skimmer Unik is a solution that allows maximum flexibility in terms of colors of the visible parts. Choose amongst the components according to your requirements.



1 SKIMMER BODY - ABS	WHITE COLOR	Code	Unit £
	Skimmer body LINER POOL WITH INSERTS*	74833	290.00
	Skimmer body PANEL POOL WITH INSERTS	74835	362.00
Ascounts	Skimmer body POLYESTER POOL 6° WITH INSERTS	74837	306.00

^{*} Delivered with 2 sets of screws DIN 7982 A4 5.5x25 and 32

(2)ski	MMER COVERS - AB	S	Code	Unit £
	MALADA	Skimmer cover WHITE	74838	90.00
		Skimmer cover BEIGE	74838CL090	102.00
- 1		Skimmer cover GREY	74838CL129	102.00
	SECONNE	Skimmer cover ANTHRACITE	74838CL144	102.00

3) SKIMMER MOUTH / EM	BELLISHER	Code	Unit £
	3.1 - FOR CONCRETE LINER AND PANEL POOLS		
	Standard ABS WHITE	74839	49.00
	Standard ABS BEIGE	74839CL090	56.00
	Standard ABS GREY	74839CL129	56.00
	Standard ABS ANTHRACITE	74839CL144	56.00
	Standard Stainless Steel A316-L	74806	poa
	3.2 - FOR POLYESTER POOLS		
OHAL ADV	6° Mouth - WHITE	74840	50.00
	6° Mouth - BEIGE	74840CL090	58.00
	6° Mouth - GREY	74840CL129	58.00
RECOMM	6° Mouth - ANTHRACITE	74840CL144	58.00

KIT SKIMMER UNIK ABS CO	DLOR WHITE: BODY + COVER + EMBELLISHER	Code	Unit £
THE WATER	Skimmer UNIK LINER POOL WITH INSERTS	74460	399.00
	Skimmer UNIK PANEL POOL WITH INSERTS	74462	470.00
AECOLUM	Skimmer UNIK POLYESTER POOL 6° WITH INSERTS	74464	415.00

SKIMMER OPTIONS - VALID FOR	THE SKIMMERS PARTS SOLD SEPARATLELY OR THE FULL SETS	Code	Unit £
SONAL ADVI	EXTENDED Mouth Standard WITH INSERTS	74842	125.00
	EXTENDED Mouth POLYESTER POOL 6° WITH INSERTS	74844	181.00
PECOMITIES	COVER EXTENSION RING	74845	29.00



LINER AND PREFABRICATED POOLS - SKIMMERS 17.5 L

73159



73166CL129



73166CL090

Filtering skimmer



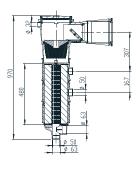


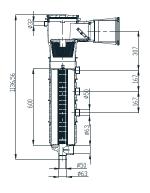


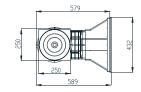
17.5 L skimmer with cartridge system integrated. Made of ABS with UV treatment. Skimmer flap, adjustable lid height, skimmer basket and 2 cartridge filters. Upper access water connection \emptyset 32 m, bottom connections of \emptyset 63 mm and lateral of \emptyset 50 mm. Lateral connections are for connecting suction nozzles.

Use the inlet insert to change the colour. This insert could be installed without changing the skimmer mouth.

	group	Code	Unit £
Prefabricated pools - white ⁽¹⁾ Filtering skimmer with 2 cartridges 16m ³ Filtering skimmer with 2 cartridges 20m ³	A	73159	800.00
	A	73162	865.00
Panels pools - white Filtering skimmer with 2 cartridges 16m³ Filtering skimmer with 2 cartridges 20m³	A	73160	832.00
	A	73163	910.00
EASYCOLOR - Inlet insert ⁽²⁾ Light Grey - inlet insert Anthracite - inlet insert Beige - inlet insert	A	73166CL129	59.00
	A	73166CL144	59.00
	A	73166CL090	59.00
Cartridge ⁽³⁾ Cartridge 16 m³/h - 15 microns Cartridge 20 m³/h - 15 microns	A	73164	202.00
	A	73165	210.00











- (1) Codes 73159 and 73162 will be delivered with 2 sets of screws DIN 7982 A4 5.5x25 and 32.
- (2) Also compatible with skimmers 30866, 30867 and 34413 $\,$
- (3) 2-year limited warranty please refer to the instruction manual



LINER AND PREFABRICATED POOLS - SKIMMERS 17.5 L

Supplied with adhesive gaskets, flanges, and screw kit. All skimmer parts exposed are UV resistant. **Recommended flow 7.5 m³/h.** In white ABS with silent weir flap and flow regulation plug. $1^{1}/_{2}$ " female -2" male suction connections. Ø 50 mm solvent connection also provided. Overflow connection Ø 40 mm. Basket secured to base with bayonet fixing. We recommend installing one skimmer for every 25 m² of surface area.



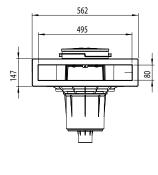
NORM skimmer

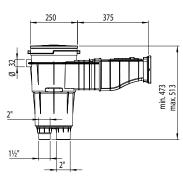
17.5L skimmer range suitable for installation in public and private pools. Manufactured in white ABS with UV treatment, it comes with a weir flap, flow regulator, lid height regulation and basket. The water inlet is 495 x 80 mm. Recommended flow rate of 7.5 m³/h. Install one skimmer every 25 m² of water line surface area. Connections under 1 $\frac{1}{2}$ " and 2", water overflow connection of Ø 40 mm.

For prefabricated pools - White
For prefabricated pools - Beige
For prefabricated pools - Light grey
For prefabricated pools - Anthracite grev

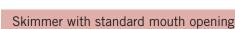
Code	Unit £
56176	249.00
56176CL090	268.00
56176CL129	268.00
56176CL144	268.00
	56176 56176CL090 56176CL129











Supplied with adhesive gaskets, flange and screws.

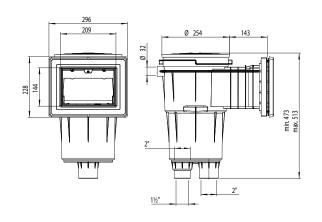


With	square	cover	-	White
With	square	cover	-	Beige
With	square	cover	-	Light grey
With	square	cover	-	Anthracite grey

Discount group	Code	Unit £
Α	11309	196.00
Α	11309CL090	212.00
Α	11309CL129	212.00
Α	11309CL144	212.00









LINER AND PREFABRICATED POOLS - SKIMMERS 17.5 L



Skimmer with standard opening and extended throat

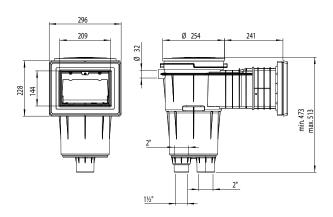
Supplied with adhesive gaskets, flange and screws.

With square cover - White With square cover - Beige With square cover - Light grey With square cover - Anthracite grey

Discount group	Code	Unit £
Α	11310	208.00
Α	11310CL090	225.00
Α	11310CL129	225.00
Α	11310CL144	225.00









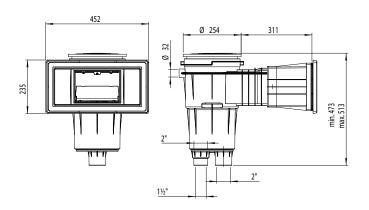
Skimmer with wide mouth opening

Supplied with adhesive gaskets, flange and screws.

With square cover - White
With square cover - Beige
With square cover - Light grey
With square cover - Anthracite grey

Discount group	Code	Unit £
Α	11311	205.00
Α	11311CL090	222.00
Α	11311CL129	222.00
Α	11311CL144	222.00







Unit £

231.00

LINER AND PREFABRICATED POOLS - SKIMMERS 17.5 L



Skimmer with wide opening and extended throat

Supplied with adhesive gaskets, flange and screws.

Discount Code group



Panel Protect skimmer inside assembly

Skimmers for panel pools. The wide opening assembly should be fitted to the panel from the inside. Supplied with glue. Item 30867 is compatible with EASYCOLOR Inlet insert item 73166CLXXX for changing the colour of the face and float. This can be done without changing the skimmer mouth.

Α



Square cover

Discount group	Code	Unit £
Α	30867	204.00
Α	30884	13.00

11313



The 17.5 litre skimmer can be made to order with much larger throat extensions than the standard size. This can be particularly useful if wider coping stones than usual are installed.





Covers for 17.5 I skimmers







Round cover, round face plate - White Round cover, round face plate - Beige Round cover, round face plate - Light grey Round cover, round face plate - Anthracite grey
Round cover, square face plate - White Round cover, square face plate - Beige Round cover, square face plate - Light grey Round cover, square face plate - Anthracite grey

	group		
	Α	4402010507	32.00
	Α	05280-0600CL090	34.00
	Α	05280-0600CL129	34.00
/	Α	05280-0600CL144	34.00
	Α	4402010510	39.00
	Α	05280-0700CL090	41.00
	Α	05280-0700CL129	41.00
	Α	05280-0700CL144	41.00



74035CL129

74035CL090



74035CL1144

Beige - inlet sheath Light Grey - inlet sheath Anthracite Grey - inlet sheath

flanges and embellisher.

ount up	Code	e	Unit £
1	74035CI	_090	87.00
1	74035CI	.129	87.00
١	74035CI	_144	87.00
	up	74035CI 74035CI	up 74035CL090

EASYCOLOR - Inlet Sheath for wide mouth skimmers

The EASYCOLOR inlet insert kit allows to change the colour of the skimmers 11311, 11313, 11314 and 11317. This insert could be installed without changing the skimmer mouth. This kit includes inlet insert, float,

Code



Main Drains must be arranged so that there is not risk of bathers being drawn towards them or trapped there It is recommended that a minimum of 2 x Main Drains are installed 2 metres apart. All flow rates listed do not exceed 0.5 m/sec velocity.

LINER AND PREFABRICATED POOLS - MAIN DRAINS

All main drains made in plastic are provided with UV protected grilles.

- According to UNE 13451-1 standard, in public pools:
- Water passing speed 0.5 m/sec Maximum suction velocity 1.5 m/sec



NORM main drain



Unit £

New range of main drains suitable for installation in public and private pools. Supplied with flat or antivortex grilles. Manufactured in white ABS with UV treatment, fitted with a 2" side outlet and a 1 ½" bottom outlet connection, bottom outlet covered by semi-die cut tab.









Discount







Mini main drain



Side outlet drain assembly with 2" inner thread. Made of white ABS with grille fixed to flange. Suction velocity at grille of 0.5 m/s and flow rate of 11 m³/h. The slots in the grille are no larger than 8 mm, in compliance with regulations. M5 screws and brass inserts for fastening the flange and grille. Can be used in concrete spas and side suction inlets.

Discount Code Unit £ group Α 27814 51.00





Ø 290 mm main drain for liner pools. PARKER model

2" side outlet and $1\frac{1}{2}$ " bottom outlet. Specially for liner pools. Built completely in white ABS. Comes with screws in stainless steel and synthetic adhesive gaskets. Side outlet for plug for testing water tightness. Bottom outlet for plug for fitting a hydrostatic valve code 00277 (see page 62) and drainage tube code 21581 (see page 62). Suction speed of 0.5 m/s. Maximum recommended flow rate: 13 m³/h. Fitted flush to pool floor for total drainage.

Discount group	Code	Unit £
Α	00270	80.00

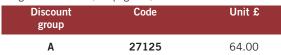


Main Drains must be arranged so that there is not risk of bathers bein drawn towards them or trapped there It is recommended that a minimum of 2 x Main Drains are installed 2 metres apart. All flow rates to see the past avecage 0.5 m/ges valsed to the content of the past avecage 1.5 m/ges valsed to the content of the past avecage 1.5 m/ges valsed to the past avecage 1.5 m/ges va

LINER AND PREFABRICATED POOLS - MAIN DRAINS

Round Ø 200 mm main drain with antivortex grille

Made of white ABS. 2" side outlet and 11/2" bottom outlet. Bottom outlet covered by a semi-die cut tab, which may be removed if necessary. A drainage pipe (code drainage code 21581 (see page 62). Max. flow rate: 13 m³/h.





Round Ø 200 mm main drain with flat grille 175 mm

Made of white ABS. 2" side outlet and 11/2" bottom outlet. Bottom outlet covered by a semi-die cut tab, which may be removed if necessary. A drainage pipe (code drainage code 21581 (see page 62). Max. flow rate: 13 m³/h.

Discount group	Code	Unit £
Α	27838	58.00



Ø 210 mm main drain with ABS grille

2" side outlet. Body and grille in ABS. Comes with self-adhesive gaskets, flange and screws. Maximum recommended flow rate: 13 m³/h.

	group	Code	Unit £	
5 210 mm main drain with ABS grille - White	Α	00271	62.00	
210 mm main drain with ABS grille - Beige	Α	00271CL090	67.00	
210 mm main drain with ABS grille - Light grey	Α	00271CL129	67.00	
3 210 mm main drain with ABS grille - Anthracite grey	Α	00271CL144	67.00	



00271CL144

0

74097 74097CL090

		-	
NOS AL	600	400	
286	2000	100	
-		4	

74097CL129	74097CL144
/409/CL129	/409/CL144

Main drain grille

Grille to replace the grilles on already installed main drains in private pools. Made of PP plastic. Compatible with main drains 01467, 27837, 27839.

	group	Code	Offic &
White	Α	74097	14.00
Beige	Α	74097CL090	17.00
Light grey	Α	74097CL129	17.00
Anthracite grey	Α	74097CL144	17.00



Square 210 mm x 210 mm main drain with ABS grille.

With 2" side outlet. Body and grille in ABS. Comes with self-adhesive gaskets, flange and screws. Maximum recommended flow rate: 13 m³/h.

Discount group	Code	Unit £
Α	00273	79.00



LINER AND PREFABRICATED POOLS - MAIN DRAINS



S.S. circular main drain. Outlet of 2"



In S.S. AISI 316, with fixed grille and screws. Includes gaskets, flange, and fixing screws.

Maximum	flow:	13	m ³ /h.
VIGAIIIIUIII	IIOVV.	$_{\rm I}$	111 /11.

Side	conne	ction	2"	
Side	conne	ction	2",	bottom
conn	ection	11/2"		

Discount group	Code	Unit £
J	00275	332.00
J	26197	602.00



NORM main drain in polyester and fibreglass - 330 mm x 330 mm



New range of main drains compliant with the requirements of standard EN-13451-1/3 2012. Made of polyester resin and fibreglass. Grille in stainless steel AISI-316 or plastic. Optional hydrostatic valve.

			Discount group	Code	Unit £
Grille in stainless steel					
Solvent socket outlet connection	Grille	Flow rate			
Ø 75 mm	S.S.	15 m³/h	J	20074N	1,016.00
Ø 90 mm	S.S.	23 m³/h	J	20075N	1,030.00
Ø 110 mm	S.S.	27 m ³ /h	J	20290N	1,097.00

Minimum depth of installation: 1.5 m.

Maximum recommended flow rate down drain: 103 m³/h (0.5 m/s).



NORM main drain in polyester and fibreglass - 515 mm x 515 mm



Unit £

New range of main drains compliant with the requirements of standard EN-13451-1/3 2012. Made of polyester resin and fibreglass. Grille in stainless steel AISI-316 or plastic. Optional hydrostatic valve.

Discount

Code

			group		
Grille in stainless ste	el				
Solvent socket outlet connection	Grille	Flow rate			
Ø 110 mm	S.S.	42 m³/h	J	20076N	1,447.00
Ø 125 mm	S.S.	51 m³/h	J	20077N	1,471.00
Ø 140 mm	S.S.	66 m³/h	J	20078N	1,497.00
Ø 160 mm	S.S.	95 m³/h	J	20079N	1,533.00
Ø 200 mm	S.S.	103 m ³ /h	J	20291N	1,567.00

Minimum depth of installation: 1.5 m.

Maximum recommended flow rate down drain: 103 m³/h (0.5 m/s).



LINER AND PREFABRICATED POOLS - MAIN DRAINS

In polyester and fibreglass 355 x 355 mm





4	0		
1/4	<	()	7
	-		7

tatic valve.		Discount group	Code	Unit £
S.S. AISI-316 grille				
Solvent socket outlet connection	Grille			
Ø 75 mm	AISI-316	J	20074	733.00
Ø 90 mm	AISI-316	J	20075	743.00
Ø 110 mm	AISI-316	J	20290	784.00
ABS grille with UV protection. 257 x 257 mm.				
Solvent socket	Grille			
outlet connection				
Ø 75 mm	plastic	J	22416	486.00
Ø 90 mm	plastic	J	22417	491.00
Ø 110 mm	plastic	J	22418	508.00



In polyester and fibreglass 515 x 515 mm



Gel coat finish. S.S. AISI-316 grille. With gaskets, flange, and screws. Slots < 8 mm. Recommended flow 62 m³/h (0.3 m/s). Max. recommended flow 103 m³/h (0.5 m/s.). With optional hydrostatic valve.

		group	Code	Ollit 2
Grille	Flow			
AISI-316	42 m ³ /h	J	20076	1,037.00
AISI-316	51 m ³ /h	J	20077	1,044.00
AISI-316	66 m ³ /h	J	20078	1,061.00
AISI-316	95 m³/h	J	20079	1,080.00
	AISI-316 AISI-316 AISI-316	Grille Flow AISI-316 42 m³/h AISI-316 51 m³/h AISI-316 66 m³/h AISI-316 95 m³/h	Grille Flow AISI-316 42 m³/h J AISI-316 51 m³/h J AISI-316 66 m³/h J	Grille Flow AISI-316 42 m³/h J 20076 AISI-316 51 m³/h J 20077 AISI-316 66 m³/h J 20078



MULTIFLOW SYSTEM









Unit £



00330CL129



00330CL144

Multiflow threaded return inlet for liner pools

Outer 2" thread, Ø 50mm inner. For liner pools. Comes in white ABS, with gaskets and screws. Installation with bushing 15662 or 15663 is recommended (see page 69).

group		
Multiflow return inlet - White Multiflow return inlet - Beige A Multiflow return inlet - Light grey A Multiflow return inlet - Anthracite grey A	00330 00330CL090 00330CL129 00330CL144	37.00 40.00 40.00 40.00



Liner return inlet

For liner pools, white ABS plastic with gaskets and screws. External thread of 2", Ø 50 mm solvent internal. Installation with wall conduits 15662 or 15663 is recommended.

	Discount group	Code	Unit £
With self tapping screws	Α	06498	19.00



Return inlet for fibreglass pools

2" external thread. Ø 50 mm solvent internal. In white ABS, with gaskets and screws. Slots < 8 mm, complies with UNE 13451-1 standard.

	group	Odde	Oint 2
White	Α	00334	22.00
Beige	Α	00334CL090	24.00
Light grey	Α	00334CL129	24.00
Anthracite grey	Α	00334CL144	24.00



00334CL144

00334CL129

Return inlet for fibreglass pools

2" external thread. $1^1/_2"$ internal thread. In white ABS with gaskets. Slots < 8 mm, complies with UNE

13451-1 standard.	Discount group	Code	Unit £
Return inlet for fibreglass pools	Α	06481	15.00





Multiflow return inlet for panel pools

Inlets specially designed for installation in panel pools between 10 and 15 cm thick. To be glued to a Ø 50 mm pipe. Made of white ABS. Comes with gaskets.

Discount group	Code	Unit £
Α	33091	32.00

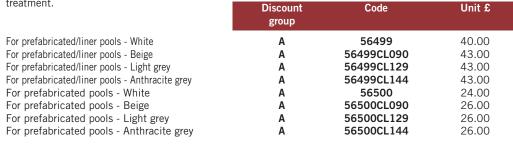






Range of inlets suitable for installation in public and private pools. Manufactured in white ABS with UV treatment.









Adjustable liner return inlet

With gaskets, flanges, and screws. 3 adjustable positions. (100%, 65%, & 35%). Max. flow complies with UNE 13451-1: 13.5 m³/h. Internal connection Ø 63 mm.









Pool floor return inlet for prefabricated pools



Return nozzle. Comes with gaskets, flanges and screws. Adjustable flow rate. Max. flow rate: 12 m3/h.

Discount



2" outer thread and internal Ø 50 mm - White 2" outer thread and internal Ø 50 mm - Beige 2" outer thread and internal Ø 50 mm - Light grey 2" outer thread and internal Ø 50 mm - Anthracite grey

group		
Α	00340	40.00
Α	00340CL090	43.00
Α	00340CL129	43.00
Α	00340CL144	43.00

Code



Complies with Standard Complies with standards 13451-1-3 EN 16582-1 EN 16713-2





EN 16582-1 EN 16713-2

BCN03 pool floor return inlet



Adjustable pool floor return inlet for liner pools. Designed to be glued to the inside of PN6 and PN10 piping. Made of white ABS, with self-tapping screws or with metal inserts. Plastic or stainless steel flange, depending on the model. Maximum flow rate: 9.5 m³/h.

PN6 self-tapping plastic flange
With PN6 plastic flange inserts
PN10 self-tapping stainless steel flange
With PN10 stainless steel inserts

Code	Unit £
28230	38.00
28231	48.00
28501	68.00
28502	83.00
	28230 28231 28501





13451-1-3



EN 16713-2

BCN03 adjustable pool floor return inlet



Pool floor return inlet for liner pools. Thanks to the adjustable feature, its installation in the pool floor is made extremely easy as it can be fitted after the concrete has been laid with wall conduit 43590.

	group	Code	Unit £
With plastic flange inserts	Α	43586	51.00
Plastic self-tapping flange	Α	43587	42.00
With stainless steel flange inserts	Α	43588	98.00
Self-tapping stainless steel flange	Α	43589	89.00



Ø 90 mm wall conduit



PVC wall conduit. Cutting area of 120 mm for fitting it to the pool wall or floor. Ø 63 or Ø 75 connection, as required.

	Discount group	Code	Unit £
Ø 90/Ø 63–Ø 75 mm wall conduit	Α	43590	36.00

For inlets:

Ø

43586 - 43587 - 43588 - 43589 BCN 03:

Return inlet/suction nozzle for high flow rates: 41518 - 41519 - 41520 - 41521



Adjustable liner inlet



For suction. Made in white ABS, with gaskets, flanges, and screws. Adjustable flow. Max. flow. 12 m³/h. Adjustable flow by way of grille rotation. Flow surface area: 0.015 m². Flow a 0.4 m/s: 20 m³/h. Maximum recommended flow: $26 \text{ m}^3/\text{h}$. (0.5 m/s).

	Discount group	Code	Unit £
Grille in S.S. AISI-304	Α	08316	244.00
Grille in white ABS	Α	11795	130.00





00332CL129







00332CL144

Suction nozzle for liner pools

Outer 2" thread, internal Ø 50 mm. Made of white ABS. Comes with plug, gaskets and screws. Recommended for installation with wall conduit 15663.

	group	Code	Onit £
Standard return inlet - White	Α	00332	33.00
Standard return inlet - Beige	Α	00332CL090	38.00
Standard return inlet - Light grey	Α	00332CL129	38.00
Standard return inlet - Anthracite grey	Α	00332CL144	38.00



Suction nozzle for panel pools

For installation in panel pools between 10 and 15 cm thick. Comes with gaskets. Connections: To be glued to Ø 50 mm piping and $1\frac{1}{2}$ " BSP thread.

Discount group	Code	Unit £
A	33092	32.00



Suction nozzle for prefabricated pools

Outer 2" thread, Ø 50 mm inner wall. For prefabricated pools. Made of white ABS. Comes with $1\frac{1}{2}$ " threaded plug.

Discount Code Unit £ group 00336 17.00 White Δ Beige Α 00336CL090 19.00 19.00 Light grey 00336CL129 Α Anthracite grey Α 00336CL144 19.00



Double gasket kit

In

Kit made up of a double gasket and the screws necessary for the installation of nozzles in panel pools. Made of TPE, the kit enables the installation of various accessories in pool shells and protects the panelling from coming into contact with water. Easy to install. Prevents corrosion of the panelling in the area that has been die cut.

	Discount group	Code	Unit £
serts for nozzles	Α	43455-0500	9.00





Inlet/suction nozzle for large flows



Inlet nozzles for large flows and they can be also be used as suction nozzle. Inlet flow rate 30m³/h for a maximum water flow velocity of 4m/s according to EN 13451-1 standard. Suction flow rate 5m³/h for a maximum water flow velocity of 0.5m/s according to EN 13451-1 standard. PVC body, ABS grille, PA flange and AISI 304 screws, holes in grille is than 8mm according to EN 13451-1 standard. Ø75 or Ø90 pipe connection. The nozzle can be installed into the wall conduit 43590.

	Discount group	Code	Unit £
Inlet for panel pools	A	41518	77.00
Inlet for liner / prefabricated pools	A	41521	70.00



Suction nozzle for overflow pools with liner



PVC body, PA flange and Stainless Steel screws. Suction flow rate 7m³/h for a maximum water flow velocity of 0.5m/s according to EN 13451-1 standard. Ø75 or Ø90 pipe connection. Double gasket.

	Discount group	Code	Unit £
Suction nozzle for overflow pools with liner	Α	41519	62.00





74121CL129



74121CL090



74121CL144

Main drain polyester pool



Specially designed for polyester pools. Main-drain/ nozzle that should be installed in the wall of the pool in the deepest area of the pool. Installation with 2" thread, gasket and nut. Made of ABS.

Discount

group

A A

A

Code

74121

74121CL090

74121CL129

74121CL144

White
Beige
Light Grey
Anthracite grey
0 ,

S





18.00

20.00

20.00

20.00



LINER AND PREFABRICATED POOLS - STAINLESS STEEL INLETS

Complies with Standard EN 13451-1-3 EN 16582-1 EN 16713-2

Return inlet for liner pool with Ø 25 mm ball

1½" external thread. Manufactured in AISI-316L stainless steel. Ø 25 mm ball. Comes with gaskets and screws. Recommended flow rate: 7 m³/h.

Discount group	Code	Unit £
J	69877	160.00



Adjustable return inlet

2" external thread. Made in S.S. AISI-316. Suitable for installation in both concrete and prefabricated pools. Water flow may be adjusted by the central screw. Max. recommended flow: 14 m³/h.

Discount group	Code	Unit £
J	15839	243.00



74101

Stainless Steel embellisher for Skimmers

AISI-316L embellishers for ABS skimmers. Includes flange, screws and gaskets.

	Discount group	Code	Unit £
ABS standard mouth skimmers items 01461 (15L), 01462 (15L), 11309 (17.5L), 11310 (17.5L)	J	56344	257.00
ABS wide mouth skimmers items 01463 (15L), 01464 (15L), 11311 (17.5L), 11313 (17.5L)	J	56340	285.00
ABS skimmer NORM item 56176.	J	74101	339.00



LINER AND PREFABRICATED POOLS - STAINLESS STEEL INLETS



69173

Stainless Steel embellisher for main drain

AISI-316L embellishers for ABS main drains. It includes screws.

	Discount group	Code	Unit £
ABS main drain 00270	J	69173	288.00
ABS main drain 00271	J	69174	247.00



69174



Stainless Steel embellisher for return inlet

Embellisher and stainless steel ball for ABS inlets. Includes flange, screws and gaskets.

	Discount group	Code	Unit £
ABS return inlet items 00330 and 56499	J	69171	77.00
ABS suction inlet item 00332	J	69172	182.00

LINER AND PREFABRICATED POOLS - WALL CONDUITS

New range of 300 mm conduits for \emptyset 2" inlets and "Multiflow", that can be easily cut to other lengths depending on pool shell thickness. Made in ABS. They all have 2 holes for positioning within the pool shell. The front face of the conduit is recessed, which means the inlet body is installed flush with the wall, leaving the liner flat and only the inlet face plate visible.



Rear external 2" male thread

2" front internal thread
for 2" male thread inlet
2" internal thread
exclusively for inlet model 06498

Discount group	Code	Unit £
Α	15663	13.00
Α	15664	13.00

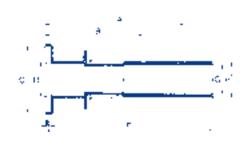


LINER AND PREFABRICATED POOLS - WALL CONDUITS

Rear external Ø 63 mm

2" front internal thread for 2" male thread inlet 2" internal thread exclusively for inlet model 06498

Discount group	Code	Unit £
Α	15662	13.00
Α	15665	13.00



Dimensions	Models				
Dillielisions	15663 15664 15662 1566				
А	250	250	250	250	
В	175	175	175	175	
С	D.118.5	D.84	D.118.5	D.84	
D	2"	2"	2"	2"	
Е	10	24	10	24	
F	300	300	300	300	
G	D.50"	D.50	D.50	D.50	
Н	2"	2"	D63	D63	



PVC wall conduit - Length 300 mm

PVC wall conduit. Length 300 mm. Rear external 2" male thread. PVC grey colour.

	group	Code	Unit £
2" front internal thread	Α	00323	21.00
Ø 59.3 mm, solvent internal for inlets, suitable for gluing into 63 mm 6 bar pipe & mini dichro light 33684	A	00324	16.00



Stainless Steel wall conduit

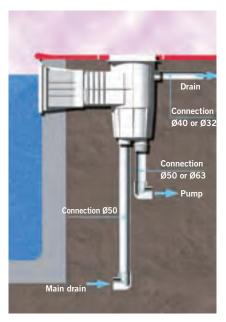
Made in S.S. AISI-304. Both ends with internal thread of $1^{1}/_{2}$ ". Earth connection. For inlet 16331 & 16327, with the use of panel adapter 26171.

group		
J	00344 00345	119.00 128.00
J	00345	
	J	J 00344

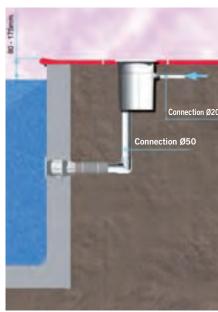


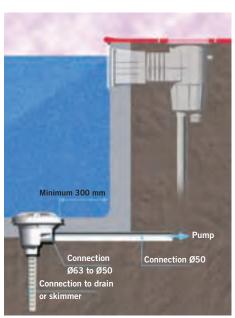
INSTALLATION DIAGRAMS

Skimmer installation

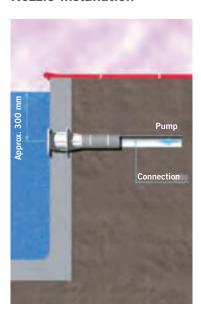


Water level regulator installation Main drain installation

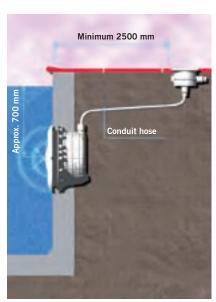




Nozzle installation



Underwater installation



INSTALLATION DIAGRAMS

CONCRETE POOLS:

Concrete / liner



FIBREGLASS POOLS:

Fibreglass



PANEL POOLS:

1 gasket



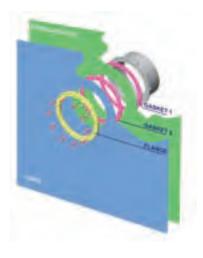
Concrete

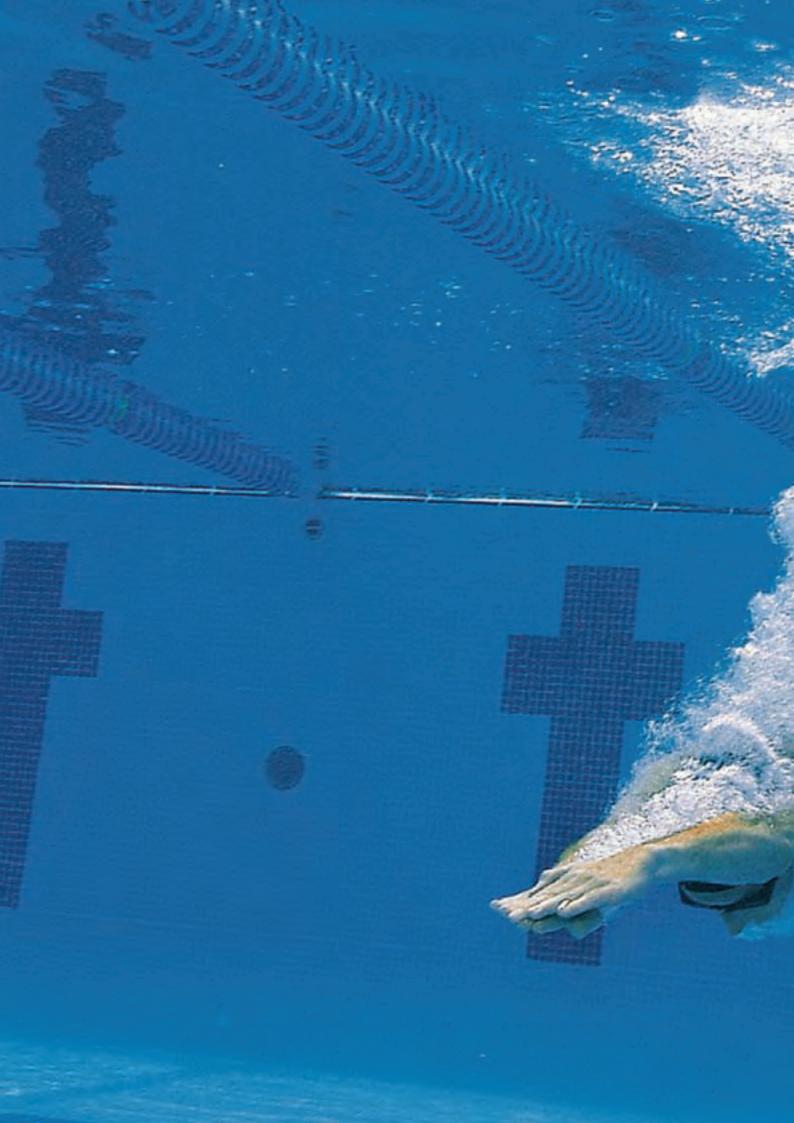


Threaded fibreglass



2 gaskets







FILTRATION

- 92 NanoFiber filter
- 93 Hydrospin pre-filter
- 94 Cartridge filters
- 94 Filter housing
- 95 Blow-moulded sand filters
- 96 Laminated filters
- 104 Bobbin wound filters
- 111 Horizontal bobbin wound filters
- 112 Automatic multiport valves
- 113 Manual multiport valves
- 115 Valve batteries
- 115 Air Vents
- 116 Filtration media
- 116 Pressure gauge panels
- 117 Air blowers
- 117 Filter accessories for 3/4" arms
- 118 Filter accessories for 1" arms
- 118 Filter accessories for 1 1/2" arms





NANOFIBER FILTER





Code





Unit £

NanoFiber filter

Filter for residential pools up to 90m³ characterised by its high-quality filtration: 5-8 microns, self-cleaning function, small size. The NanoFiber filter uses an innovative material that delivers better quality filtration due to its network of nanofibers.

- Easy to use
- Reliable
- Lower water consumption
- · Higher water filtration quality
- Compact
- Easy to clean
- Dirt slow to build up without limescale
 Compatible with current filter systems on the market
- · Replacement filtration media



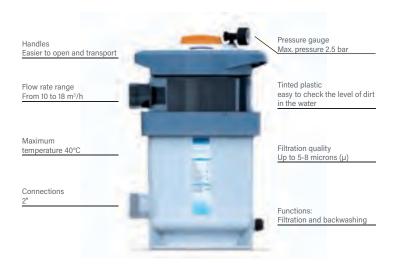
Auto versions can be connected to a 07444 manual valve, or a 70769 automatic valve

	group			
NanoFiber Auto 150 filter (10 m ³ /h)	J	67355-0100	1.416.00	
NanoFiber Auto 180 filter (14 m³/h)	j	67356-0100	1.480.00	
NanoFiber Auto 200 filter (18 m ³ /h)	j	67357-0100	1.545.00	
Auto adaptor kit		67509	753.00	
NanoFiber 150 filter (10 m³/h)	J	64837-0100	835.00	
NanoFiber 180 filter (14 m ³ /h)	J	64838-0100	897.00	
NanoFiber 200 filter (18 m³/h)	J	64839-0100	960.00	
Replacement filtration media				
For Nanofiber 150	J	65383	356.00	
For Nanofiber 180	J	65384	415.00	
For Nanofiber 200	J	65385	474.00	

Discount



Model	Filtration surface area (m²)	Flow rate (m³/h)	Max. pool volume (m³)
NanoFiber 150	4.5	10	70
NanoFiber 180	5.2	14	80
NanoFiber 200	6.0	18	90





HYDROSPIN PRE-FILTER

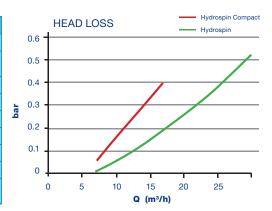
Hydrospin & Hydrospin Compact



Hydrocyclone pre-filters can be fitted to filtration systems in both new and old installations. Hydrospin is able to treat flows up to $30 \text{ m}^2\text{/h}$ with a maximum working pressure of 2.5 bars. It is fitted between the pump and the filter and separates out solids of up to 40 micra, thus reducing by half the amount of water consumed for cleaning the filtration system. HydroSpin has a device for collecting solids with three separate areas (settling, clarifying and clouding). It can be cleaned using just five litres of water without having to stop the pump.

	group	Code	Unit £
Hydrospin Hydrospin Compact	D D	45289 53743	607.00 363.00
Kit for wall installation, for 45289	D	47158	54.00

		45289	53743
	Working pressure (bar)	2.5	2.5
	Connections	Ø 63	Ø 50 thread 2¼"
	Purge connection	1"	3/4
	Min. flow rate (m ³ /h)	5	3
EE 1	Max. flow rate (m ³ /h)	30	16.5
-	Water for cleaning (I)	5	15
E .	Separate solids (micron)	40	60
Colon Colon	Floor support	Included	
A)	Wall support	Accessory 47158	Included
V			







CARTRIDGE FILTERS



Cylindrical cartridge filter

Made of unalterable plastics, transparent polycarbonate lid. One polyester fabric filtration cartridge. Connections $1\frac{1}{2}$ ". Filtration surface 2.3 m². Flow rate 5 m³/h.

Cylindrical cartridge filter
Spare cartridge 300 x 145

Discount group	Code	Unit £
J	00648 00652	235.00 87.00



Cylindrical double cartridge filter

Made of unalterable plastics, transparent polycarbonate lid. One polyester fabric filtration cartridge. Connections $1\frac{1}{2}$ ". Filtration surface 4.6 m². Flow rate 10 m³/h.

Cylindrical double cartridge filter
Spare cartridge 607 x 145

Discount group	Code	Unit £
j	00649	395.00
J	04720	189.00

FILTER HOUSING

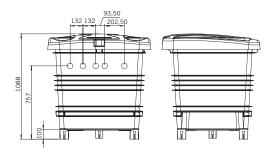


Ramses compact housing

The new Ramses in-ground housing unit to work with any pool up to 10 m x 5 m just by changing the hours of filtration. It is one of the smallest in-ground housing units on the market and so reduces costs in terms of both excavation and transportation. Made of injected-polymer reinforced with fibreglass. It houses a \emptyset 550 mm Aster filter with FLAT Top manual multiport valve and a Sena 1 HP circulation pump.

Discount group	Code	Unit £
J	41910	2,178.00





BLOW-MOULDED SAND FILTERS

Injection-moulded plastic filter. Ivory in colour. Heat-welded top and bottom joint. Fitted with a flowmeter and manual air bleed valve. Multiport valve included. Top filtration speed of 50 $\rm m^3/h$ per $\rm m^2$ of fibre. Maximum pressure: 2.5 kg/cm².



Cantabric filters

Top-mounted multiport valve. Threaded filter locking ring in ABS.

	Discount group	Code	Unit £
6000 I/h Ø 400 mm outlet 1½" 9000 I/h Ø 500 mm outlet 1½" 14000 I/h Ø 600 mm outlet 1½" 21000 I/h Ø 750 mm outlet 1½" 21000 I/h Ø 750 mm outlet 2"	B B B B	22399 15780 15781 20128 23866	632.00 710.00 815.00 1,280.00 1,462.00

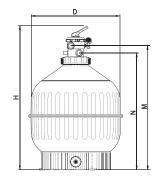
Side-mounted Cantabric filters

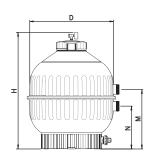
Clear lid & threaded locking ring in ABS, supplied with side-mounted multiport valve excluding 900mm filter.

	60
6	
-	
1	-

With multiport side valve
6000 l/h Ø 400 mm outlet 11/2"
9000 l/h Ø 500 mm outlet 1½"
14,000 l/h Ø 600 mm outlet 1½"
21000 I/h Ø 750 mm outlet 2"
30000 l/h Ø 900 mm outlet $2\frac{1}{2}$ "
(valve not included)

Discount group	Code	Unit £
В В В	22398 15782 15783 15784	649.00 755.00 880.00 1,334.00
В	22402	1,939.00





		Top-mounted						Side-mounted		
	22399	15780	15781	20128	23866	22398	15782	15783	15784	22402
Ø D (mm)	400	500	600	750	750	400	500	600	750	900
H (mm)	894	1009	1069	1239	1250	715	800	875	1045	1215
M (mm)	744	829	894	1064	1098	380	415	445	575	675
N (mm)	680	765	830	1000	1023	255	290	320	345	405
Connections	11/2"	11/2"	11/2"	11/2"	2"	11/2"	11/2"	11/2"	2"	21/2"
Flow (m³/h)	6	9	14	21	21	6	9	14	21	30
Approx. pool volume (m³) (8 hours)*	48	72	112	168	168	48	72	112	168	240
Sand load (kg)	60	100	150	300	300	60	100	150	300	550
Grade 1 glass load (57011) (kg)	42	70	105	210	210	42	70	105	210	385
Grade 2 glass load (57012) (kg)	11	19	28	57	57	11	19	28	57	104
Net weight (kg)	8	14	15	23	25	7	12	14	24	34
Package volume (m³)	0.2	0.37	0.49	0.83	0.83	0.15	0.29	0.4	0.67	1.3

Fitted with sand dump port of Ø 2" in Ø 750 mm & Ø 900 mm models, and of $1\frac{1}{2}$ " in Ø 400, Ø 500 & Ø 600 mm models.

^{* 8} hours turnover rate





Atlas filter









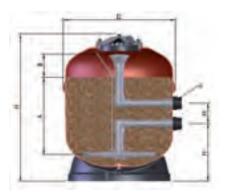
Reinforced polyester sand filter.

Technical features:

- Made of polyester resin and fibreglass.
- Excellent finish with gel-coat colour RAL 8029.
- The filter has been designed with higher coefficient of security, to guarantee a perfect operation.
- The union of the two bodies of the filter is carried out through a seal specially reinforced with fibreglass and polyester resin.
- Large diameter plastic lid.
- Cap to make the sand discharge into the filter easier.
- Fitted with 1" collector arms and diffuser made from unplasticised PVC.
- Interior pipe with tubes of PN-16.
- Sand purge of 21/2".
- Fitted with pressure gauge, air purge and manual water drain.
- Connections to multiport valve with six positions: filter, backwash, rinse, recirculate, waste and closed.
- AstralPool innovation: The filter has a security valve to avoid any over-pressure.
- Maximum working pressure of 2.5 Kg/cm².

	Discount group	Code	Unit £
Includes multiport \emptyset 500 mm outlet $1^1/2$ " \emptyset 600 mm outlet $1^1/2$ " \emptyset 750 mm outlet 2"	В В В	36596 36597 36598	1,214.00 1,303.00 1,851.00
Does not include multiport Ø 900 mm outlet $2^1/2^n$	В	36599	2,332.00

Code	36596	36597	36598	36599	
Ø Filter mm	500	600	750	900	
Connections	11	/ ₂ "	2"	21/2"	
Filtering surface (m ²)	0.19	0.30	0.44	0.64	
Filtering velocity (m ³ /h/m ²)		5	0		
Flow (m ³ /h)	9.5	15	22	30	
Working pressure (bar)		2	.5		
Sand (kg)	120 190 360 580				
Net weight (kg)	20	25	33	51	



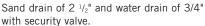






Dimensions:

Code)	A (mm)	B (mm)	D (mm)	H (mm)	M (mm)	N (mm)
3659	6	400	120	545	830	125	300
3659	7	480	145	640	905	125	325
3659	8	550	165	790	1050	230	310
3659	9	630	190	940	1185	270	410









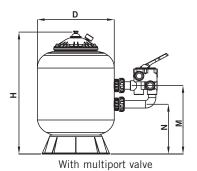


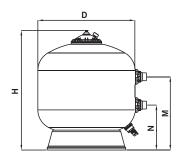


Bright satin finish with a transparent polyurathane varnish dust-repellant coating. Ø 230 mm injected lid fixed with bolts. Fitted with pressure gauge, manual air vent, water purge, and side mounted multiport valve. Maximum filtration velocity 50 m³/h/m².

Discount Code Unit £ Discount Code Unit £

	group		
With multiport valve: 9000 l/h Ø 500 mm outlet $1^1/2$ " 14000 l/h Ø 600 mm outlet $1^1/2$ " 21000 l/h Ø 750 mm outlet 2"	В	00541	1,078.00
	В	00542	1,249.00
	В	00543	2,016.00
Without multiport valve: 30000 I/h Ø 900 mm outlet $2^{1}/_{2}$ "	В	00544	2,553.00
Without multiport valve and with Ø 400 mm plastic lid: 43000 l/h Ø 1050 mm outlet Ø 75 mm 56000 l/h Ø 1200 mm outlet Ø 90 mm	B	00545	4,400.00
	B	00546	5,316.00





Without multiport valve

	Sic	de mounted va	lve	Without valve			
	00541	00542	00543	00544	00545	00546	
Ø D mm	500	600	750	900	1050	1200	
H mm	805	910	1050	1145	1300	1450	
M mm	450	505	610	685	810	870	
N mm	325	380	380	415	500	560	
Connections	11/2"	11/2"	2"	21/2"	*D75	**D90	
Flow rate m ³ /h at 50 m ³ /h/m ²	9	14	21	30	43	56	
Pool volume m ³	50-75	75-115	115-170	170-240	240-350	350-450	
Sand kg	100	175	300	525	575/300	800/300	
Maxi working pressure kg/cm ²	2.5	2.5	2.5	2.5	2.5	2.5	
Net weight kg	14.6	18.6	27.5	43.4	83	93	
Packaging volume m ³	0.23	0.36	0.26	0.99	1.92	2.75	

^{*}Filter outlet to be glued Ø 75 mm to accessories. **Filter outlet with Ø 90 mm flange.



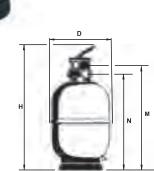
Aster filters

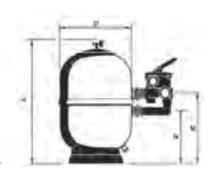


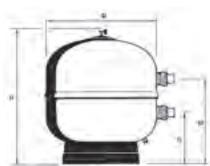
Laminated fibreglass filter with fibreglass. Grey colour, with new bolt-less lid and polypropylene base. Fitted with pressure gauge, water drainage plug, and multiport valve. Maximum working pressure: 2.5 kg/cm^2 . Maximum filtration velocity $50 \text{ m}^3\text{/h/m}^2$.

The side mount Asters now come with a 2½" sand drain which connects straight to a vac hose for easier media extraction.

	group	Code	Unit £
With top mounted multiport valve			
5000 l/h Ø 350 mm outlet 1½"	В	30768	688.00
8000 l/h Ø 450 mm outlet 1½"	В	30769	722.00
9000 I/h Ø 500 mm outlet 1½"	В	30770	754.00
14000 l/h Ø 600 mm outlet 1½"	В	30771	863.00
21000 I/h Ø 750 mm outlet 2"	В	33847	1,519.00
32000 I/h Ø 900 mm outlet 2"	В	33848	2,000.00
With side mounted multiport valve new with 2½" sand drain 5000 l/h Ø 350 mm outlet 1½"	В	00497FD01	709.00
8000 l/h Ø 450 mm outlet 1½"	В	00497FD01	855.00
9000 l/h Ø 500 mm outlet 1½"	В	19781FD01	904.00
14000 I/h Ø 600 mm outlet 1½"	В	00499FD01	1,010.00
21000 l/h Ø 750 mm outlet 2"	В	00500FD01	1,545.00
Without multiport valve 31000 l/h Ø 900 mm outlet 2½"	В	00501	2.040.00
01000 p 000 04tlot 2/2	_		_, = 10.00







	With Top mounted multiport valve							With Side mounted multiport valve				Without valve
	30768	30769	30770	30771	33847	33848	00497	00498	19781	00499	00500	00501
Ø D mm	350	450	500	600	750	900	350	450	500	600	750	900
H mm	910	965	960	1005	1184	1344	780	795	770	850	945	1050
M mm	740	795	790	835	973	1133	420	430	415	455	555	660
N mm	680	785	730	775	897	1057	295	305	290	330	325	390
Connections	11/2"	11/2"	11/2"	11/2"	2"	2"	11/2"	11/2"	11/2"	11/2"	2	21/2"
Flow rate m ³ /h at 50m ³ /h/m ²	5	8	9	14	21	31	5	8	9	14	21	30
Pool (volume) m ³ (8 hours)	40	64	72	112	168	240	40	64	72	112	168	240
Sand kg	50	70	95	125	290	500	50	70	95	125	290	500
Maxi working pressure kg/cm ²	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Net weight kg	17	20	22	27	38	72	18	21	18	21	30	51
Packaging volume m ³	0.13	0.23	0.30	0.46	0.74	1.49	0.13	0.23	0.26	0.36	0.6	1.03





MULTIPORTS ARE NOT INCLUDED

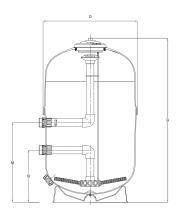
Deep Bed Aster filter



- The filters are manufactured with polyester resin and fibreglass.
- 0.8 m filter bed which gives a higher quality of filtration than the standard domestic filter.
- The filter can be used as a single layer or multi layer combining sand with gravel, glass or antracite.
- Fast opening lid.
- Sand drain of 2 ¹/₂".
- Maximum pressure 2.5 Bar
- Optional vinylester coating for ozone treatment.
 Maximum temperature of 40°.

group	0000	Sinc 2
В	24768-0100	1,307.00
В	24769-0100	1,506.00
В	24770-0100	1,993.00
В	10003-0100	2,508.00
В	10004	2,577.00
	В В В В	group B 24768-0100 B 24769-0100 B 24770-0100 B 10003-0100

- 200mm Sand Port available upon request



	24768-0100	24769-0100	24770-0100	10003-0100	10004
Ø D mm	500	600	750	900	900
H mm	1365	1370	1435	1400	1435
M mm	605	605	665	825	865
N mm	480	480	435	595	595
Connections	11/2"	11/2"	2"	2"	21/2"
Flow rate m ³ /h at 50 m ³ /h/m ²	9.5	16.5	21	31	
Pool volume m ³	75	120	175	2!	50
Gravel kg	16	35	65	13	35
Sand kg	200	300	450	58	30
Working pressure kg/cm ²	2.5	2.5	2.5	2.5	2.5
Net weight kg	30	40	60	90	
Package volume m ³	0.59	0.59	0.89	-	-





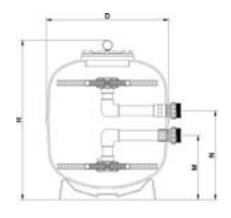






White laminated polyester and fibreglass filter. Internal parts with special sides for OC-1 media. Filter for side selector valve. ¼" air and water purge. Transparent lid with screws. Maximum temperature: 50 °C. Maximum working pressure of 2.5 kg/cm². Maximum filtration speed 50/h/m². Filter for OC-1 filtration media Not compatible with sand, glass or other filter loads. OC1 not included.

	group	Code	Offic &	
With multiport valve:				
OC-1 Aster filter 450	В	68642	1,113.00	
OC-1 Aster filter 500	В	68643	1,178.00	
OC-1 Aster filter 600	В	68644	1,319.00	
OC-1 Aster filter 650	В	68645	1,388.00	
OC-1 Aster filter 750	В	68646	2,017.00	
OC-1 Aster filter 900-2"	В	68647	2,549.00	
Without multiport valve:				
OC-1 Aster filter 900-21/2"	В	68648	2,702.00	
50L 0C1	В	OC-1/50	poa	
20L 0C1	В	OC-1/20	poa	



	68642	68643	68644	68645	68646	68647	68648
Ø D (mm)	450	500	600	650	750	900	900
H (mm)	845	855	900	955	1035	1100	1100
M (mm)	305	290	330	370	325	365	390
N (mm)	430	415	455	495	555	635	660
Connections	11/2"	11/2"	11/2"	11/2"	2"	2"	21/2"
Flow rate (m ³ /h) at 50 m ³ /h/m ²	8	10	14	17	22	32	32
Maxi working pressure kg/cm ²	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Pool volume (m³)	64	72	112	120	168	240	240
Filtration area (m²)	0,159	0,196	0,283	0,332	0,442	0,636	0,636
Volume OC-1 (L)	44	59	78	125	181	313	313
OC-1 (kg)	9	12	16	25	36	63	63
Net weight (kg)	18	20	25	26	33	50	50



LAMINATED FILTERS







Multiports not included



Nozzle plate detail



Collector arms detail

Artic Filter 1m bed depth - sight glass now on request



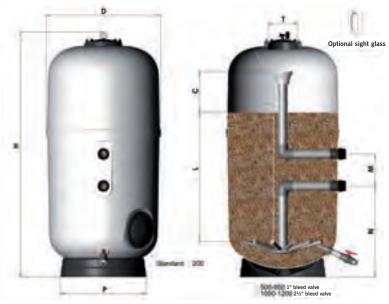




Range of high-capacity retention filters with optimal backwash performance. Manufactured in polyester with an external gel-coat finish. Body of just two parts; ivory. Maximum working temperature of 50°C. Internal parts made from PVC plastic. Antivortex. Ø 400 lid to remove sand from bottom part of filter (optional) in Ø 1050 and Ø 1200 versions. Ø 650, 800, 950, 1050 and 1200 filters available with collector arms or nozzle plate. Compatible with sand and glass, among others. Complies with filtration requirements as per standard EN 16713-1. Discount

Multiport not included,	group		Sint 2
collector arms system			
Ø 650 mm connection 1½"	D1	34030-0100	1,744.00
Ø 800 mm connection 2"	D1	34031-0100	2,137.00
Ø 950 mm connection 2½"	D1	41187	2,612.00
Ø 1050 mm connection 3"	D1	41188	4,764.00
Ø 1200 mm connection 4"	D1	41189	5,415.00
Sight Glass Option 75 mm diameter	D1	sight	299.00

	34030	34031	41187	41188	41189	
Ø D (mm)	680	825	970	1090	1255	
H (mm)	1700	1750	1760	1895	1970	
M (mm)	125	230	270	270	270	
N (mm)	775	685	655	630	665	
L (mm)			1000			
C (mm)			300			
P (mm)	490	625	705	775	940	
T (mm)		200		400		
Connections	11/2"	2"	21/2"	3"	4"	
Flow rate (m³/h)	16,5	25	35	43	56,5	
Filtration area (m²)	0.33	0.50	0.70	0.86	1.13	
Sand load (kg)	380	530	830	1015	1360	
Gravel load (kg)	100	165	260	320	410	
Grade 1 glass load (45307) (kg)	332	481	754	923	1225	
Grade 3 glass load (45309) (kg)	90	130	203	249	330	
Maximum pressure (kg/cm²)	2,5	2,5	2,5	2,5	2,5	
Net weight (kg)	65	70	109	135	155	
Water drain	1"	1"	1"	21/2"	21/2"	
Injection-moulded plastic lid	Ø200	Ø200	Ø200	Ø400	Ø400	





LAMINATED FILTERS

Artic Filters 1.2m bed depth - with sight glass 75mm diameter









Artic Filters 1.2iii bed deptii - with Sight glass 75iiiii diameter

Range of high-capacity retention filters with optimal backwash performance. Manufactured in polyester with an external gel-coat finish. Body of just two parts; ivory. Maximum working temperature of 50° C. Internal parts made from PVC plastic. Antivortex. Ø 400 lid to remove sand from bottom part of filter (optional) in Ø 1050 and Ø 1200 versions. Ø 650, 800, 950, 1050 and 1200 filters available with collector arms or nozzle plate. Compatible with sand and glass, among others. Complies with filtration requirements as per standard EN 16713-1.

Multiport not included,	group	Code	Onit 2
collector arms system			
Ø 650 mm connection 1½"	D1	36053	2,180.00
Ø 800 mm connection 2"	D1	36054	2,629.00
Ø 950 mm connection 2½"	D1	41373	3,284.00
Ø 1050 mm connection 3"	D1	36055	5,359.00
Ø 1200 mm connection 4"	D1	36056	6,086.00



Multiports not included

100	
AND FEED AND AND AND AND AND AND AND AND AND AN	Re-
Can a Cal	
	-
2550	

Nozzle plate detail

Nozzie piate dei	.aii
	10
	1

Collector arms detail

	36053	36054	41373	36055	36056	
Ø D (mm)	680	825	970	1090	1255	
H (mm)	1900	1950	1960	2145	2170	
M (mm)	125	230	270	270	270	
N (mm)	730	670	665	665	665	
L (mm)			1200			
C (mm)			300			
P (mm)	490	625	705	775	940	
T (mm)		200		400		
Connections	11/2"	2"	21/2"	3"	4"	
Flow rate (m³/h)	16,5	25	35	43	56,5	
Filtration area (m²)	0.33	0.50	0.70	0.86	1.13	
Sand load (kg)	470	660	1015	1240	1665	
Gravel load (kg)	100	165	260	320	410	
Grade 1 glass load (45307) (kg)	376	528	812	992	1332	
Grade 3 glass load (45309) (kg)	80	132	208	256	328	
Maximum pressure (kg/cm²)	2,5					
Net weight (kg)	75	90	131	135	210	
Water drain	1"	1"	1"	21/2"	21/2"	
Injection-moulded plastic lid	Ø200	Ø200	Ø200	Ø400	Ø400	



LAMINATED FILTERS

Europe filters



Polyester and fibreglass filters: complete fitted with pressure gauge panel, manual air relief valve and water purge \emptyset 200 sand discharge port. \emptyset 400 mm top lid. Suitable for filtration velocities of 20, 30, 40 and 50 m³/h/m². Please enquire for other velocities. All Europe filters can be fitted with valve manifold.

Maximum working pressure 2.5 Kg/cm²

Filtration bed 1 m

		1
I	T	1
1	R	N.
b	3	

DOES NOT INCLUDE VALVE MANIFOLD

Also available with a 1.2 m bed depth

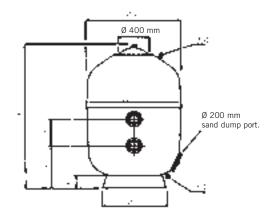
Can also be made in 4 kg

For filters with nozzle plates, a side opening (Ø 400 mm or Ø 225 mm) should be made for emptying the filter media.

Diameter Ø mm	Filtration velocity m³/h/m²	Outlet Ø mm	Flow m³/h	Discount group	Code	Unit £	Standard Weight Kg
	20*	63	17	D	20070	3,524.00	125
1050	30/40**	75	25/34	D	20071	3,608.00	125
	50	90	43	D	20072	3,697.00	125
1200	20/30	75	22/33	D	20068	3,979.00	150
1200	40/50	90	45/56	D	20069	4,068.00	150
	20	75	30	D	21497	5,464.00	214
1400	30	90	46	D	21498	5,703.00	214
	40/50	110	61/77	D	21499	5,863.00	214
	20	90	40	D	21500	6,838.00	230
1600	30/40	110	60/80	D	21501	6,975.00	230
	50	125	100	D	21502	7,354.00	230
	20	90	50	D	21503	8,080.00	344
1800	30	110	76	D	21504	8,225.00	344
1800	40	125	101	D	21505	8,562.00	344
	50	140	125	D	21506	8,801.00	344
	20	110	62	D	21507	9,518.00	400
2000	30	125	94	D	21508	9,848.00	400
2000	40	140	125	D	21509	10,302.00	400
	50	160	157	D	21510	10,531.00	400
	20	125	87	D	33820	13,727.00	600
2350	30	140	130	D	33822	13,820.00	600
2330	40	160	174	D	33824	14,657.00	600
	50	200	217	D	33826	15,458.00	600
	20	140	100	D	34302	16,929.00	630
2500	30	160	150	D	34303	17,420.00	630
2500	40	200	200	D	34304	17,998.00	630
	50	225	225	D	34305	18,644.00	630

^{*} Can use a 2" multiport valve.

^{**} Can use a 2 $^{1}/_{2}$ " multiport valve.



Ø (mm)	1050	1200	1400	1600	1800	2000	2350	2500
Filtration bed height (m)	1	1	1	1	1	1	1	1
H (mm)	1860	1860	2000	2100	2200	2200	2430	2525
B (mm)	270*	350	400	400	400	400	400	500
A (mm)	540	570	615	710	725	805	950	1015
Ø P (mm)	760	850	1083	1230	1370	1558	1830	1830
E (mm)	170	180	240	250	270	300	355	-
Filtration area (m²)	0.86	1.13	1.54	2.01	2.54	3.14	4.34	4.9
Volume (I)	1250	1575	2185	2965	3850	4850	7230	9385
Sand 0.4 – 0.8 mm (Kg)	1050	1360	1820	2375	3010	3750	5000	5600
Gravel 1 – 2 mm (Kg)	265	325	410	515	760	1060	2000	2920
Total weight in operation (Kg)	2060	2600	3500	4700	6150	7800	10786	13800

 $^{^{\}ast}$ For 2" multiport valve the height will be 230 mm.



BOBBIN WOUND FILTERS





Single layer filter in polyester and fibreglass. Lid Ø 400 mm. Supplied with manual air relief valve and water purge, sand dump port, and pressure gauge panel. Valid for 20, 30 and 40 m³/h/m² filtration velocities. For other filtration velocities, please enquire.

Maximum working pressure 2.5 Kg/cm²

Praga filters

				8 1			
Diameter Ø mm	Filtration velocity m³/h/m²	Outlet Ø mm	Flow rate m ³ /h	Discount group	Code	Unit £	Standard Weight Kg
	20	63	17	С	00687	3,899.00	120
1050	30-40	75	25-34	С	00694	4,010.00	120
	-	90	-	С	00707	4,147.00	120
	20-30	75	22-33	С	00688	4,340.00	154
1200	40	90	45	С	00702	4,500.00	154
	20	75	30	С	00689	5,173.00	173
1400	30	90	46	С	00696	5,521.00	173
	40	110	61	С	00703	5,778.00	173
	20	90	40	С	00690	6,358.00	235
1600	30-40	110	60-80	С	00697	6,635.00	235
	-	125	-	С	00710	7,133.00	235
	20	90	50	С	00691	6,998.00	270
1000	30	110	76	С	00698	7,274.00	270
1800	40	125	101	С	00705	7,774.00	270
	-	140	-	С	00711	7,900.00	270
	20	110	62	С	00692	8,600.00	295
2000	30	125	94	С	00699	9,090.00	295
2000	40	140	125	С	00706	9,203.00	295
	-	160	-	С	05083	10,192.00	295
2200	30	140	114	С	56937	17,142.00	412
2200	40	160	152	С	56938	17,979.00	412
	20	125	87	С	00693	18,451.00	530
2350	30	140	130	С	00700	18,942.00	530
	40	160	175	С	04935	19,866.00	530
	20	140	100	С	08695	20,057.00	780
2500	30	160	150	С	08696	21,410.00	780
	40	200	200	С	08697	22,604.00	780
	20	160	140	С	08699	35,988.00	1350
3000	30	200	212	С	08700	38,708.00	1350
	40	225	282	С	08701	39,737.00	1350

OTHER SPECIFIC DEPTHS MAY BE MADE TO ORDER.

THE Ø 3000 mm FILTERS WILL BE SHIPPED BY SPECIAL DELIVERY. ASK YOUR DEALER ABOUT ADDITIONAL

plates, a side opening (Ø 400 mm or Ø 225 mm) should be made for empty-ing the filter media.

Options	Unit £		
Nozzle Plate Ø 1050	2,659		
Nozzle Plate Ø 1200	2,749		
Nozzle Plate Ø 1400	4,305		
Nozzle Plate Ø 1600	5,460		
Nozzle Plate Ø 1800	6,430		
Nozzle Plate Ø 2000	7,467		
Nozzle Plate Ø 2200	8,649		
Nozzle Plate Ø 2350	8,826		
Nozzle Plate Ø 2500	10,148		
Nozzle Plate Ø 3000	21,681		
Manhole Ø 225	773		
Manhole Ø 400	2,007		
Manhole Ø 500	2,997		
Sight Glass Ø 135	699		
Sight Glass Ø 200	2,161		
Vinylester Coating	10%		

Note: See technical features on next page

BOBBIN WOUND FILTERS

0 =

DOES NOT INCLUDE VALVE MANIFOLD

OTHER SPECIFIC DEPTHS MAY BE MADE TO ORDER.

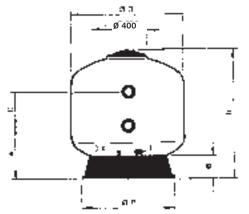
THE Ø 3000 mm FILTERS WILL BE SHIPPED BY SPECIAL DELIVERY. ASK YOUR DEALER ABOUT ADDITIONAL COSTS.

Praga filters

Lid Ø 400 mm.

Maximum working pressure 4 Kg/cm²

Diameter Ø mm	Filtration velocity m³/h/m²	Outlet Ø mm	Flow rate m³/h	Discount group	Code	Unit £	Standard Weight Kg
	20	63	17	С	09209	4,759.00	142
1050	30-40	75	25-34	С	00712	4,877.00	142
	-	90	-	С	00724	5,013.00	142
1200	20-30	75	22-33	С	00713	5,382.00	169
1200	40	90	45	С	00719	5,522.00	169
	20	75	30	С	09210	6,091.00	192
1400	30	90	46	С	00714	6,336.00	192
	40	110	61	С	00720	6,591.00	192
	20	90	40	С	09211	7,343.00	250
1600	30-40	110	60-80	С	00715	7,618.00	250
	-	125	-	С	00727	8,114.00	250
	20	90	50	С	09212	8,067.00	300
1800	30	110	76	С	00716	8,341.00	300
1000	40	125	101	С	00722	8,839.00	300
	-	140	-	С	00728	8,964.00	300
	20	110	62	С	09213	9,801.00	350
2000	30	125	94	С	00717	10,292.00	350
	40	140	125	С	00723	10,408.00	350
	-	160	-	С	05132	11,392.00	350
2200	30	140	114	С	57812	20,571.00	440
2200	40	160	152	С	57813	21,574.00	440
	20	125	87	С	09214	22,141.00	530
2350	30	140	130	С	09217	22,730.00	530
	40	160	175	С	09220	23,839.00	530
2500	20	140	100	С	09215	24,068.00	960
	30	160	150	С	09218	25,692.00	960
	40	200	200	С	09221	27,124.00	960
	20	160	140	С	09216	44,254.00	1600
3000	30	200	212	С	09219	47,004.00	1600
	40	225	282	С	09222	48,089.00	1600



Ø (mm)	1050	1200	1400	1600	1800	2000	2200	2350	2500	3000
Depth of sand medium (m)	1	1	1	1	1	1	1	1	1	1
H (mm)	1640	1780	1755	1835	1875	2040	2440	2520	2550	2750
B (mm)	200	230	240	260	280	300	340	340	340	350
A (mm)	540	570	585	680	720	790	950	965	1080	1100
C (mm)	645	640	610	515	465	510	510	600	450	440
Ø P (mm)	755	940	1085	1230	1370	1550	1830	1859	2000	2365
E (mm)	90	90	90	140	140	140	140	140	140	140
Filtration surface areas (m ²)	0.86	1.13	1.54	2.01	2.54	3.14	3.80	4.34	4.90	7.07
Volume (I)	1050	1500	2000	2600	3400	4400	6520	8045	9050	12800
Sand load (kg)	950	1375	1650	2150	2800	3800	4650	5275	5950	8600
Gravel load (kg)	300	300	450	675	750	1050	1900	1800	2200	3300
Grade 1 glass load (57011) (kg)	648	872	1091	1465	1844	2519	3388	3667	4220	6160
Grade 2 glass load (57012) (kg)	212	285	356	479	602	823	1107	1198	1378	2012
Grade 3 glass load (57013) (kg)	233	313	392	527	663	906	1218	1319	1518	2215
Total operating weight (kg)	2000	2700	3700	4900	6100	7900	11200	12550	13760	20200



BOBBIN WOUND FILTERS





SOME FILTER VESSELS FROM Ø 2000 mm AND ABOVE MAY REQUIRE SPECIAL TRANSPORT VEHICLES. PLEASE ASK FOR A QUOTATION AT THE

NOTE: The lateral manholes (Ø 400 mm or Ø 225 m) are nozzle collector plates for emptying of filter media.



Filter base

Options	Unit £
Nozzle Plate Ø 1050	2,659
Nozzle Plate Ø 1200	2,749
Nozzle Plate Ø 1400	4,305
Nozzle Plate Ø 1600	5,460
Nozzle Plate Ø 1800	6,430
Nozzle Plate Ø 2000	7,467
Nozzle Plate Ø 2200	8,649
Nozzle Plate Ø 2350	8,826
Nozzle Plate Ø 2500	10,148
Nozzle Plate Ø 3000	21,681
Manhole Ø 225	773
Manhole Ø 400	2,007
Manhole Ø 500	2,997
Sight Glass Ø 135	699
Sight Glass Ø 200	2,161
Vinylester Coating	10%

Vic filters

The Vic bobbin wound filter has a screw-top lid for easy access with quick-locking mechanism for diameters up to and including Ø 2 m. Vic filters with diameters of Ø 2.35 m, Ø 2.5 m and Ø 3 m, have a Ø 400 mm bolt-down lid.

Fitted with new 11/2" collector arms in moulded ABS, these one piece laterals varying in length from 90 mm to 525 mm, replace the need for interconnecting unions previously required to make up the length. This makes maintenance easier and more effective. Less head drain loss is also achieved thanks to the increased diameter of the collector arms.

The collector tubes are manufactured in moulded PVC and have a diameter of 90 mm. Water drainage and air relief are now quicker thanks to the inclusion of 1" diameter air and water purge valves.

The distance between the upper sand bed and the freeboard has been increased to ensure improved water distribution in the filtration stage and to avoid sand falling into the drainage system during the wash cycle.

An interior vinylester coating is required if ozone is to be used

Maximum working pressure 2.5 Kg/cm²

Diameter Ø mm	Filtration velocity m³/h/m²	Outlet Ø mm	Flow m³/h	Discount group	Code	Unit £	Standard Weight Kg
	20	63	17	С	11511N	3,831.00	120
1050	30-40	75	25-34	С	11517N	3,917.00	120
	50	90	43	С	11526N	4,152.00	120
1200	20-30	75	22-33	С	11512N	4,199.00	154
1200	40-50	90	45-56	С	11522N	4,443.00	154
	20	75	30	С	11513N	5,146.00	173
1400	30	90	46	С	11518N	5,372.00	173
	40-50	110	61-77	С	11523N	5,664.00	173
	20	90	40	С	11514N	6,235.00	235
1600	30-40	110	60-80	С	11519N	6,429.00	235
	50	125	100	С	11527N	6,980.00	235
	20	90	50	С	11515N	6,819.00	270
1800	30	110	76	С	11520N	7,148.00	270
1800	40	125	101	С	11524N	7,766.00	270
	50	140	125	С	11528N	8,241.00	270
	20	110	62	С	11516N	8,478.00	295
2000	30	125	94	С	11521N	8,717.00	295
2000	40	140	125	С	11525N	9,170.00	295
	50	160	157	С	11529N	10,495.00	295



Connections Sand dump port



Water purge



Access lid

Filtration bed 1 m

BOBBIN WOUND FILTERS

Vic filters







SOME FILTER VESSELS FROM Ø 2000 mm AND ABOVE MAY REQUIRE SPECIAL TRANSPORT VEHICLES. PLEASE ASK FOR A QUOTATION AT THE TIME OF YOUR ENQUIRY.

NOTE: The lateral manholes (Ø 400 mm or Ø 225 m) are recommended for filters with nozzle collector plates for emptying of filter media.

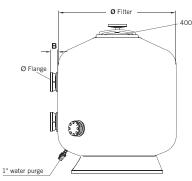
Code 2.5 Kg	Ø Filter mm	A mm	B mm	C mm	H mm	Ø P mm	Ø Connection mm	Filtration surface m ²	Sand (0.4-0.8 mm)	Gravel (1-2 mm)	0.5-1mm GLASS	3mm GLASS
11511N	1050	685	85	535	1950	760	63	0.86				
11517N	1050	685	85	535	1950	760	75	0.86	1050	295	850	250
11526N	1050	685	85	535	1950	760	90	0.86				
11512N	1200	680	85	530	1970	860	75	1.13	1375	390	1125	350
11522N	1200	680	85	530	1970	860	90	1.13	13/5	390	1125	330
11513N	1400	685	85	575	2000	1020	75	1.54	1875			
11518N	1400	685	85	575	2000	1020	90	1.54		600	1500	500
11523N	1400	685	85	575	2000	1020	110	1.54				
11514N	1600	695	85	625	2050	1150	90	2.01		780	1975	625
11519N	1600	695	85	625	2050	1150	110	2.01	2450			
11527N	1600	695	85	625	2050	1150	125	2.01				
11515N	1800	710	85	670	2080	1320	90	2.54				
11520N	1800	710	85	670	2080	1320	110	2.54	3100	1100	2500	875
11524N	1800	710	85	670	2080	1320	125	2.54	3100	1100	2500	6/5
11528N	1800	710	85	670	2080	1320	140	2.54				
11516N	2000	730	85	715	2150	1470	110	3.14				
11521N	2000	730	85	715	2150	1470	125	3.14	3800	1230	3075	1000
11525N	2000	730	85	715	2150	1470	140	3.14	3000	1230	30/5	
11529N	2000	730	85	715	2150	1470	160	3.14				

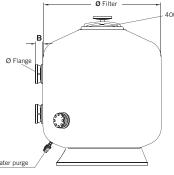


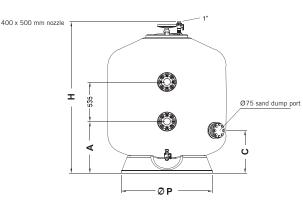
Filter base



Collector arms











THIS CHART APPLIES ONLY TO HIGH PERFORMANCE OSLO, OLOT AND AMPURIA BOBBIN WOUND FILTERS

BOBBIN WOUND FILTERS

STATE OF THE PARTY OF THE PARTY

General features:- 100% resistant to corrosion unlike conventional steel filters

Vertical high performance bobbin wound filters

- Maximum operating temperature 50°C
- Comply with European standards for pressure vessels 97/23/CE included in section 3 of article 3
- Hydraulic pressure test 1.5 times the maximum admissible pressure

Technical features of internal components:

- Internal components and pipe in PVC
- Laterals and nozzles in PP
- Airwash connection in models with underdrain nozzle plates
- Bolts, nuts and washers in AISI-316
- EPDM seals and gaskets.



Oslo

Olot

Advantages of using an underdrain nozzle plate system over the conventional lateral system:

- There are no areas beneath the nozzles for water to stagnate as could occur in a lateral system
- Optimum filter bed backwash with a uniform water distribution
- Possibility of air wash with consequent saving of clean water
- The lateral manhole is recommended for sand discharge

The characteristics of liquids to be filtered should be indicated clearly when requesting ozone or other chemical resistant coatings for the filter interior.

MEDIA RECOMMENDATIONS:

MULTILAYER - Nozzle plate -	MULTILAYER - Nozzle plate - Filtration bed 1.2 m											
Diameter mm		1050	1200	1400	1600	1800	2000	2350	2500	2600	2800	3000
Hydroanthracite (0.8-1.6) Kg	600 mm	450	575	775	1000	1275	1575	2175	2450	2548	2956	3550
Sand (0.4-0.8) Kg	400 mm	475	625	825	1100	1400	1700	2350	2675	2973	3448	3850
Gravel (1-2) Kg	100 mm	150	175	250	300	400	500	675	775	796	924	1100
Gravel (3-5) Kg	100 mm	150	175	250	300	400	500	675	775	796	924	1100
MULTILAYER - Nozzle plate -	Filtration bed	1.5 m										
Diameter mm		1050	1200	1400	1600	1800	2000	2350	2500	2600	2800	3000
Hydroanthracite (0.8-1.6) Kg	600 mm	450	575	775	1000	1275	1575	2175	2450	2548	2956	3550
Sand (0.4-0.8) Kg	600 mm	725	950	1250	1650	2100	2550	3525	4025	4460	5172	5775
Gravel (1-2) Kg	100 mm	150	175	250	300	400	500	675	775	796	924	1100
Gravel (2-3) Kg	100 mm	150	175	250	300	400	500	675	775	796	924	1100
Gravel (3-5) Kg	100 mm	150	175	250	300	400	500	675	775	796	924	1100
SINGLELAYER - Nozzle plate - Filtration bed 1.2 m												
Diameter mm		1050	1200	1400	1600	1800	2000	2350	2500	2600	2800	3000
Sand (0.4-0.8) Kg	1100 mm	1300	1775	2300	3000	3800	4650	6300	7075	8176	9483	10575
Gravel (1-2) Kg	100 mm	150	175	250	300	400	500	675	775	796	924	1100
SINGLELAYER - Nozzle plate	- Filtration bed	d 1.5 m										
Diameter mm		1050	1200	1400	1600	1800	2000	2350	2500	2600	2800	3000
Sand (0.4-0.8) Kg	1200 mm	1450	1900	2500	3300	4200	5100	7050	8050	8920	10345	11550
Gravel (1-2) Kg	100 mm	150	175	250	300	400	500	675	775	7964	9236	1100
Gravel (2-3) Kg	100 mm	150	175	250	300	400	500	675	775	7964	9236	1100
Gravel (3-5) Kg	100 mm	150	175	250	300	400	500	675	775	7964	9236	1100
MULTILAYER - Collector arms	- Filtration be	d 1.2 m										
Diameter mm		1050	1200	1400	1600	1800	2000	2350	2500	2600	2800	3000
Hydroanthracite (0.8-1.6) Kg	600 mm	450	575	775	1000	1275	1575	2175	2450	2548	2956	3550
Sand (0.4-0.8) Kg	400 mm	475	625	825	1100	1400	1700	2350	2675	2973	3448	3850
Gravel (2-3) Kg	100 mm	150	175	250	300	400	500	675	775	796	924	1100
Gravel (3-5) Kg	100 mm (1)	300	350	500	775	850	1150	1800	1975	2123	2463	3850
SINGLELAYER - Collector arm	s - Filtration b	ed 1.2 m										
Diameter mm		1050	1200	1400	1600	1800	2000	2350	2500	2600	2800	3000
Sand (0.4-0.8) Kg	1100 mm	1300	1775	2300	3000	3800	4650	6300	7075	8176	9483	10575
Gravel (1-2) Kg	100 mm (1)	300	350	500	775	850	1150	1800	1975	2123	2463	3850

Densities: Hydroanthracite = 0.8 Kg/dm³ - Sand = 1.4 Kg/dm³ - Gravel = 1.5 Kg/dm³



Filtration bed 1.2 m



ALTERNATIVE HEIGHTS AVAILABLE UNDER SPECIAL ORDER.

FROM Ø 2000 mm AND ABOVE MAY REQUIRE SPECIAL TRANSPORT VEHICLES. PLEASE ASK FOR A QUOTATION AT THE TIME OF YOUR ENQUIRY.

An interior vinylester coating is required if ozone is to be used.

Also available in 4 bar.

Options	Unit £		
Nozzle Plate Ø 1050	2,659		
Nozzle Plate Ø 1200	2,749		
Nozzle Plate Ø 1400	4,305		
Nozzle Plate Ø 1600	5,460		
Nozzle Plate Ø 1800	6,430		
Nozzle Plate Ø 2000	7,467		
Nozzle Plate Ø 2200	8,649		
Nozzle Plate Ø 2350	8,826		
Nozzle Plate Ø 2500	10,148		
Nozzle Plate Ø 3000	21,681		
Manhole Ø 225	773		
Manhole Ø 400	2,007		
Manhole Ø 500	2,997		
Manhole Ø 600	poa		
Sight Glass Ø 135	699		
Sight Glass Ø 200	2,161		
Vinylester Coating	10%		

BOBBIN WOUND FILTERS



Oslo filters

Features:

Vertical high performance bobbin wound filters

Collector system:

A -Conventional collector system using laterals with 0.3 mm slots

For working pressure of 2.5 and 4 bars.

B -Nozzle plate with 0.5 mm slots. For working pressure of 2.5 and 4 bars.

Fitted with:

- Pressure gauge panel
- Manual air vent and water purge

Options:

- Positioning of water connection flanges, sightglasses and manhole covers are provided according to customer specifications.
- Diameters of connections and purges depend on customer specifications.
- For other variations such as height, chemical resistant internal coating, pressure rating, etc., please enquire.

Maximum working pressure 2.5 Kg/cm²

Diameter Ø mm	Filtration velocity m³/h/m²	Outlet Ø mm	Flow m³/h	Discount group	Code	Unit £	Standard Weight Kg
1050	30	75	25	D	04611	6,064.00	207
1050	40	90	34	D	04612	6,474.00	207
1200	30	75	33	D	04613	6,772.00	234
1200	40	110	45	D	04650	7,731.00	234
1400	30	90	46	D	04615	8,307.00	294
1400	40	125	61	D	04616	8,950.00	294
1600	30	110	60	D	04619	10,195.00	360
1600	40	140	80	D	04651	10,748.00	360
1800	30	125	76	D	04623	12,164.00	416
1800	40	160	101	D	04624	13,137.00	416
2000	30	125	94	D	04626	14,258.00	483
2000	40	160	125	D	04652	15,547.00	483
2350	30	140	130	D	08693	18,028.00	651
2330	40	200	175	D	08694	20,232.00	651
2500	30	160	150	D	08704	21,520.00	820
2500	40	225	200	D	08706	25,763.00	820
3000	30	200	212	D	08708	37,990.00	1300
3000	40	250	282	D	08710	42,096.00	1300



Lateral manhole Ø 400 mm



Nozzle plate



Sightglass

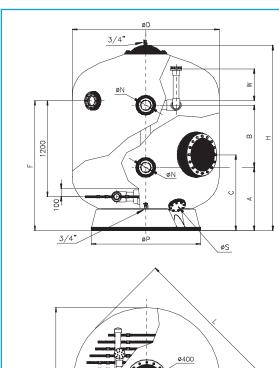


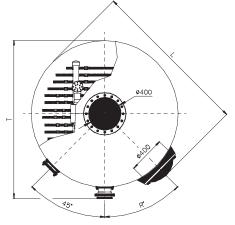
BOBBIN WOUND FILTERS

Oslo filters

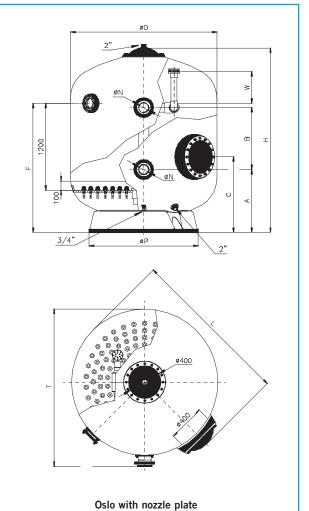








Oslo With laterals



Ø D (mm)	Filtration velocity (m³/h/m²)	Ø	N (mm)	2.5 bar Code	Flow m³/h	Filtration area m²	Volume (I)	A (mm)	B (mm)	C (mm)	F (mm)	H (mm)	L (mm)	Ø P (mm)	R (mm)	ØS (mm)	T (mm)	W (mm)	Total weight in oper. Kg	
1050	30	75	DN65	04611	25	0.86	1500	650	940	770	1550	2070	1240	750	55	90	1220	325	2450	
1030	40	90	DN80	04612	34	0.80	1300	030	340	770	1330	2070	1240	750	55	90	1220	323	2430	
1200	30	75	DN65	04613	33	1.13	1860	670	830	770	1550	2080	1390	940	45	90	1380	350	3000	
1200	40	110	DN100	04650	45	1.13	1000	070	030	770	1330	2000	1390	340	43	90	1360	330	3000	
1400	30	90	DN80	04615	46	1.54 2700	2700	680	820	840	1570	2175	1590	1085	45	90	1570	350	4300	
1400	40	125	DN110	04616	61		1.54 2700	1.01 2700	1.54 2700 00	2,00 000	020	040	1370	21/3	1330	1005	43	50	1370	330
1600	30	110	DN100	04619	60	2.01 362	2.01	3620	780	800	870	1625	2310	1790	1230	45	140	1780	400	5825
1000	40	140	DN125	04651	80	2.01	2.01 3020	1 0020 /	700	000	070	1025	2310	1750	1250	45	140	17.00	.00	5520
1800	30	125	DN110	04623	76	2.54	4725	790	780	950	1625	2320	1990	1370	45	140	2000	400	7300	
1000	40	160	DN150	04624	101	2.54	4725 7	4723 790	23 / 70	700	330	330 1023 2	2320	1330	1370	45	140	2000	400	7300
2000	30	125	DN110	04626	94	3.14	5800	790	840	950	1695	2460	2190	1550	45	140	2200	400	9000	
2000	40	160	DN150	04652	125	5.14	3000	750	040	330	1033	2400	2130	1550	43	140	2200	400	9000	
2350	30	140	DN125	08693	130	4.34	8800	1065	700	1030	1850	2720	2550	1830	45	140	2550	500	13750	
2330	40	200	DN175	08694	175	4.54	8800	1005	700	1030	1650	2/20	2330	1030	45	140	2330	300	13730	
2500	30	160	DN150	08704	150	4.90	9850	1125	450	1080	1760	2750	2700	2000	45	140	2750	500	14885	
2300	40	225	DN200	08706	200	4.50	4.90 9850	1123	450	1000	1/00	2/30	2700	2000	45	140	2730	500	14000	
3000	30	200	DN175	08708	212	7.07	15350	1150	600	1140	1870	2950	3200	2365	45	140	3200	500	21615	
3000	40	250	DN225	08710	282	7.07	7.07 15350	1130	000	1140	10/0	2930	3200	2303	40	140	3200	500	21013	



HORIZONTAL BOBBIN WOUND FILTERS



Collectors
Collection system with arms with
0.3 mm slots and uniformly distributed for correct circulation of
the water.

Quality filtration and transparency of water

The AstralPool high performance, horizontal bobbin wound filters are made of polyester reinforced with fibre-glass; they are totally anti-corrosive, and have high mechanical, chemical and thermal resistance.

Higher quality water is achieved with their greater filtering capacity. Indexes of turbidity and contaminants of the filtered water are reduced due to their increased retention capacity.

The time between backwashes increases proportionally with the height of the filter bed, meaning there are fewer interruptions in filtration, and lower water consumption, because the number of backwashes needed is decreased and there is less erosion of the filtering material.

A horizontal filter is the ideal choice in cases where a great volume of water is to be treated, and in cases which require optimisation of the available space, as a single horizontal filter can substitute up to 3 vertical filters of the same diameter simply by increasing its length.

PLEASE ASK THE SALES OFFICE FOR PRICES









AUTOMATIC MULTIPORT VALVES

Automatic multiport valves

The need for innovation in the swimming pool world has encouraged AstralPool to develop the VRAC System range: automatic multiport valves which can replace traditional manually operated valves.

With the innovative design and easy installation, these valves will allow the user to maintain the water in optimum conditions for swimming. The filtration system works daily under suitable conditions with filter backwashing whenever required.



thing ** Fluidra Connect compatible

A multiport safety valve (code 41898 or 41899) is

VRAC III automatic switch valve system

Improved automatic multiport valve operated via button keypad. It makes possible to control filtration, backwashing, rinsing, emptying, recirculation and closed positions.

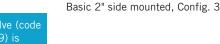
Better features to the automatic multiport valve replacing the pressure switch for an analog pressure sensor.

- Easy program of the pressure set point for backwashing Pressing a button.
- Avoid corrosion No metalic elements.

Basic 11/2" side mounted, Config. 3

- Friendly set up Fluidra Connect Box System VRAC Basic III
- Adaptable: For using in all devices with a media filter, and it is quick and easy to install.
- Comfort: With a simple programming using the keypad, you will receive a fully automated filtration for your pool.
- Hygiene: You will obtain an optimal water quality for swimming, optimizing the wash cycles (daily, weekly or by pressure monitoring).
- Safety: The automatic valve continuously monitors the filtration system and the valve, thus preventing potential breakdowns. New power surge protection. Spring coated to prevent rusting. LED lights for quick look of basic information.

group	Code	Onit £
B	72433	1,427.00
B	72434	1,587.00





Hydraulic safety valve in the drain

The $1\frac{1}{2}$ " hydraulic safety valve in the drain is specially designed for installation in the drain outlet of an automatic selector valve on a pool sand filter. Using it prevents water loss when the valve changes its working position or when the electricity flow fails and the valve remains in a position in which it could empty the pool. It is recommended in installations with SYSTEM VRAC multiport valves.

	Discount group	Code	Unit £
With 50 mm straight double connection With 1 ½" BSP double hose connection	B	41898	197.00
	B	41899	205.00



MANUAL MULTIPORT VALVES

New generation - Manual multiport valves which incorporate a bayonet closing system (replacing bolts). This eases dismantling for maintenance, and prevents rust. The range includes the $1\frac{1}{2}$ " and 2" versions, including a "Top Eco" version available in $1\frac{1}{2}$ ".

$1^{1}/_{2}$ " and 2" Multiport valve with filter connections - New Generation

 $1^{1}/_{2}$ " multiport valve configuration 3 2" multiport valve configuration 3

Discount group	Code	Unit £
B	20569	121.00
B	28512	191.00



11/2" and 2" multiport valve. Top Config. - New Generation

Top $1^1/2^{\text{"}}$ Multiport valve Top $2^{\text{"}}$ Multiport valve

Discount group	Code	Unit £
В	20565	101.00
В	33968	177.00

Does not fit Aster Top Mount Filters

Aster top mount valves

	Discount group	Code	Unit £
1 1/2" Aster top mount valve	B	31993	101.00
2" Aster top mount valve	B	33969	177.00



MANUAL MULTIPORT VALVES

Classic Plus - Manual multiport valves with six channels to carry out different functions in an hydraulic circuit. Connection to filter through a sweep elbow instead of a 90° elbow and new design to offer a reduced pressure loss. Diverter gasket placed in the diverter instead of the body to improve performance and maintenance.



NEW CLASSIC PLUS SERIES: This valve is completely compatible with the valve 00599, with improved characteristics (read the valve

description).

11/2" and 2" multiport valve with filter connections - Classic Plus

New

	Discount group	Code	Unit £
$1\frac{1}{2}$ " multiport valve - Configuration 3	В	73950	139.00

Classic - Manual multiport valves with six channels to carry out different functions in an hydraulic circuit. Its design and basic functioning offers a wide range of possibilities for connection to any installation, guaranteeing perfect water-tightness and comfortable handling.



2"

1 1/2" and 2" multiport valve with filter connections - Classic

	Discount group	Code	Unit £
multiport valve- Configuration 3	В	07444	210.00



Magnum - Specially designed to support high working pressures and connections to large filters which require special connections. Choose from the models offered: 2 ½" or 3" multiport valves.





Multiport valve with connections.

Discount group

Code Unit £

group

Configuration 3

B 24837 566.00



3" multiport valve - Magnum

Side mounted 6-way multiport valve for connecting to filters. Body and cover injected in ABS and fibreglass. Handle injected in ABS. Sealing system by stainless steel screws. Supplied with two plugs so that the customer can adapt the valve to the most suitable configuration.

Discount group	Code	Unit £	
B B	28515 Fixing kit for 3" valve	896.00 301.00	

VALVE BATTERIES

Valve batteries for one filter





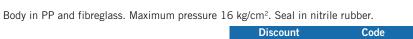
Ø	Code	Description	Discount group	Code	Unit £
	Manual Ba	atteries - 4 Valves			
75	00750	Manual Battery 4 Val. D. 75	С	00750	1,330.00
90	00755	Manual Battery 4 Val. D. 90	С	00755	1,658.00
110	00759	Manual Battery 4 Val. D.110	С	00759	1,903.00
125	00764	Manual Battery 4 Val. D.125	С	00764	2,317.00
140	00768	Manual Battery 4 Val. D.140	С	00768	2,973.00
160	09205	Manual Battery 4 Val. D.160	С	09205	3,794.00
200	09160	Manual Battery 4 Val. D.200	С	09160	6,021.00
	Manual Ba	atteries - 5 Valves			
75	00771	Manual Battery 5 Val. D. 75	С	00771	1,753.00
90	00777	Manual Battery 5 Val. D. 90	С	00777	1,917.00
110	00781	Manual Battery 5 Val. D.110	С	00781	2,211.00
125	00786	Manual Battery 5 Val. D.125	С	00786	2,713.00
140	00790	Manual Battery 5 Val. D.140	С	00790	3,059.00
160	09177	Manual Battery 5 Val. D.160	С	09177	3,897.00
200	09180	Manual Battery 5 Val. D.200	С	09180	6,737.00

AIR VENTS





Double effect air vent



group



Unit £

Double effect air vent			
Body in PP and fibreglass. Maximum pressure 16 Kg/cm ²			
Seal in nitrile rubber.			
Ø 1"	В	49381	62.00
Ø 2" U-bend outlet with PVC elbow	В	49382	131.00



FILTRATION MEDIA



OC-1 filtering media





OC refers to Open Cell (open cell) and OC-1 is an open-cell mechanical filter that uses the open cell filtration technology to filter water with a high quality, with the potential of saving water and energy. The filtration medium is an extruded plastic compound that is composed of a high density polyethylene base filled with calcium carbonate added to provide a specific gravity higher than 1.12 g / cm³.

- Water saving: exclusive filtration method that reduces water consumption by more than 40%.
- Energy saving: great waste retention that collects 20 times the capacity of traditional filters of sand or glass, which results in less backwashing.
- Time saving: OC-1 reduces the frequency of washing to less than 1/3 of traditional media.
- The OC-1 media has been tested in accordance with the current European standard EN16713-1.

	Discount group	Code	Unit £
OC1- 50L	B	OC-1/50	poa
OC1 - 20L	B	OC-1/20	poa



Filtration sand





Supplied in 25 kg bags. Please ask for a quotation on quantities of a 1 tonne or more.

	Discount group	Code	Unit £
16/30 filtration sand	B	PE925	17.00
6 mm Gravel	B	11346	16.00



0.5 - 1.0 mm



1.0 - 3.0 mm



3.0 - 7.0 mm

Active Clear Glass







- 1. More efficient and ecological filtration.
- 2. Higher filtration capacity.
- 3. Water and energy savings.
- 4. Cleaner filter bed: no bacteria can get stuck and need less chemical use.

	Discount group	Code	Unit £
Active Clear Glass			
Grade 1: 1 mm - 0.5 mm	В	45307	22.00
Grade 2: 2 mm - 1 mm	В	45308	22.00
Grade 3: 7 mm - 3 mm	В	45309	22.00

Active Clear Glass comply with the regulation UNE EN 12902:2006.

PRESSURE GAUGE PANELS



Pressure gauge panels



Including air vents.	Discount group	Code	Unit £
With pressure gauges 3 kg/cm ² With pressure gauges 6 kg/cm ²	B	00729	217.00
	B	00730	217.00



AIR BLOWERS





Air blowers





Air pump designed for spas, baths, hydromassage installations and similar which produces a constant stream of air bubbles at medium and high air volume levels. It can also be used to stir up the filter bed, for example in back wash cycles where a low intensity air current is required. The filter casing and impeller are made from an injected aluminium alloy whilst the motor spindle is manufactured from stainless steel, with the impeller dynamically balanced and directly adapted to the spindle. The motors, single phase or 3 phase for continuous use, are made from steel in compliance with CEI 2/3 1988 regulations, and feature IP54 external protection and class-F insulation. The standard voltages are100-120/200-240V for the monophase range and 200-240/380-440V for the triphase models, at 50/60Hz. The pumps can be mounted horizontally or vertically. Moreover, since there is no contact between the mobile parts and the pump static discharges, neither lubrication nor maintenance is necessary and is also doesn't cause wear on the parts. The turbines have a maximum working temperature of 40°C. Do not use in conjunction with aggressive, inflammable or explosive gases.

Please consult for technical variations.

Model	Phase	Flow (m³/h)	Max. Pressure (mbar)	Filter Size	Sound level (dB)	Code	Discount group	Unit £
Blower 0.85 kW	1	145	160	230	63	35388-2450	D	803.00
Blower 0.85 kW	3	145	160	Δ 220-240 Y 345-415	63	35387-2450	D	787.00
Blower 1.3 kW	1	210	160	230	64	31090-2450	D	949.00
Blower 1.3 kW	3	210	170	Δ 200-240 Y 345-415	64	31091-2450	D	949.00
Blower 1.5 kW	1	210	200	230	64	33971-2450	D	1,087.00
Blower 1.6 kW	3	210	190	Δ 200-240 Y 345-415	64	31092-2450	D	1,036.00
Blower 1.6 kW 2V	3	150	280	Δ 200-240 Y 345-415	66	35389-2450	D	1,239.00
Blower 2.2 kW	3	190	200	Δ 200-240 Y 345-415	69	31093-2450	D	1,286.00
Blower 3.4 kW 2V	3	230	410	Δ 200-240 Y 345-415	72	31094-2450	D	1,826.00
Blower 3.0 kW	3	318	290	Δ 200-240 Y 345-415	69	31095-2450	D	1,440.00
Blower 4.3 kW 2V	3	320	380	Δ 345-415 Y 600-720	73	31096-2450	D	2,370.00
Blower 5.5 kW	3	530	300	Δ 345-415 Y 600-720	70	31097-2450	D	3,129.00
Blower 5.5 kW 2V	3	320	500	Δ 345-415 Y 600-720	73	33972-2450	D	2,894.00
Blower 7.5 kW	3	530	430	Δ 345-415 Y 600-720	70	31098-2450	D	3,383.00
Blower 11 kW 2V	3	520	600	Δ 345-415 Y 600-720	74	33973-2450	D	5,469.00
Blower 12.5 kW	3	1050	270	Δ 345-415 Y 600-720	74	33974-2450	D	6,718.00

Airblowers with 2V after description = side entry.

Code	Power (kW)	Filter Size (mm)	Filter Surface area (m ²)	Backwash Velocity (m³/h)
31091-2450	1.3	900	0.64	60
31092-2450	1.6	1050	0.86	60
31092-2450	1.6	1200	1.13	60
31093-2450	2.2	1400	1.54	60
31093-2450	2.2	1600	2.01	60
31093-2450	2.2	1800	2.54	60
31093-2450	2.2	2000	3.14	60
31095-2450	3	2350	4.34	60
31095-2450	3	2500	4.9	60
31097-2450	5.5	3000	7.07	60

FILTER ACCESSORIES FOR 3/4" ARMS



PVC Lateral hub

	Discount group	Code	Unit £
8 arms. Internal 50 mm, external 63 mm	Α	00624	17.00
12 arms. Internal 63 mm, external 75 mm	Α	00625	25.00



FILTER ACCESSORIES FOR 3/4" ARMS



3/4" Laterals

With 0.3 mm slots.	Discount group	Code	Unit £
Length 225 mm Length 160 mm Length 110 mm Length 100 mm extension 3/4" union	A A A A	00626 00627 00628 00629 00630	2.30 2.30 2.20 2.25 2.60

FILTER ACCESSORIES FOR 1" ARMS



PVC Lateral hub

	group	Code	Unit £
3 arms. Internal 50 mm, external 63 mm	A	06433	20.00
12 arms. Internal 63 mm, external 70 mm	A	06434	22.00



1" Laterals

With 0.3 mm slots.	Discount group	Code	Unit £
Length 225 mm	Α	06435	2.55
Length 175 mm	Α	06436	2.50
Length 110 mm	Α	06437	2.30
Length 100 mm extension	Α	06438	2.30
1" union	Α	06439	1.50

FILTER ACCESSORIES FOR 1 1/2" ARMS

1½" LATERALS ARE SOLD IN PACKS OF 2

Filter accessories for 11/2" arms

 $1^{1}\!/_{\!2}{}^{\shortparallel}$ Laterals for Vic & Praga filters manufactured from 2007.

	Discount group	Code	Unit £
Length 90 mm	Α	4404160818	14.00
Length 160 mm	Α	4404160819	19.00
Length 225 mm	Α	4404160820	21.00
Length 260 mm	Α	4404160821	21.00
Length 325 mm	Α	4404160822	28.00
Length 360 mm	Α	4404160823	27.00
Length 425 mm	Α	4404160824	33.00
Length 460 mm	Α	4404160825	34.00
Length 525 mm	Α	4404160826	37.00



FILTRATION PUMPS

- 120 Variable speed pumps
- 121 Self-priming pumps
- 125 Centrifugal pumps
- 131 Strainers
- 132 Control boxes
- 135 Countercurrent swimming equipment







VARIABLE SPEED PUMPS

VICTORIAPLUS

Victoria Plus VS pump









The Victoria Plus pump for residential pools comes with a $1\ \text{hp}$ or $2\ \text{hp}$ motor, has variable speeds and can be automatically controlled.

This pump has been designed for both new-build pools and as a replacement for pumps already fitted. Significant power savings can be made thanks to the use of variable speeds and the timer.

The pump is compatible with the Fluidra Connect platform.

It has a built-in HIM controller with the possibility of mounting it on a wall for better usability.

Bathers experience a greater feeling of well-being due to the reduced noise level.

There are digital inputs and outputs for the smooth running of all pool units, such as the salt chlorinator and heat pump. It includes a power factor correction function for reducing current flow. It does not require an external power pack for Fluidra Connect.

	יוט	3		
v				
	OPA	A		
			1	

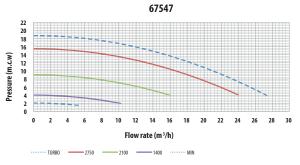
Victoria Plus VS pump - 1 hp Victoria Plus VS pump - 2 hp

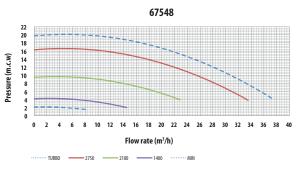
Discount group	Code	Unit £
E -	67547	1,991.00
E	67548	2.725.00













Menu-driven adjustments and settings



Intuitive weekly timer settings



Pre-set and adjustable speeds



Power consumption and savings display

Technical features:

	LOW	MEDIUM	HIGH	LOW	MEDIUM	HIGH
Speed (rpm)	1400	2100	2750	1400	2100	2750
Voltage (V)	220-240	220-240	220-240	220-240	220-240	220-240
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Power (W)	170	470	1030	258	750	1560
Current (A)	1	2.2	4.5	1.4	3.4	7.1
Flow rate (m ³ /h)	8.2	12.4	16.7	11.1	18.8	25.5
Pressure (m)	2.7	6.1	10	3.2	6.2	10
Efficiency (I/Wh)	48.3	26.4	16.2	43	25	16.3
Max. working pressure (m)	4	9	15.5	4	9.4	16.3
Noise (dB)	45	53	61	51	58	66

67547

Installation and control:





HMI control system HMI control system on pump on wall

ILTRATION PUMPS



SELF-PRIMING PUMPS



Victoria Plus New Generation pump

A self-priming pump with single-phase and three-phase motors of 1/2 to 3 HP. A prefilter is mounted on the body of the pump to prevent foreign bodies from entering it that may damage its hydraulic parts. The motors supplied come with an IP-55 protection rating and have been prepared to withstand hot environments and high levels of humidity. The main characteristics of Victoria Plus New Generation are:

- Low noise level: between 61 dBA-70 dBA.
- Easy to use: Prefilter cap with 2 levers included (no spanner needed).
- Compatibility: Fully compatible in pools fitted with a Victoria Plus pump.

Larger front bearing for improved axial thrust.





Pumps are dual connection 2" female thread or to take conventional unions

	group	Code	Unit £
10,000 l/h 0.43 kW (1/2 HP) 230 V II	E	65557	780.00
10,000 l/h 0.43 kW (1/2 HP) 230/400 V III	Ε	65558	745.00
11,000 l/h 0.61 kW (3/4 HP) 230 V II	E	65560	785.00
11,000 l/h 0.60 kW (3/4 HP) 230/400 V III	E	65561	768.00
16,000 l/h 0.78 kW (1 HP) 230 V II	E	65562	814.00
16,000 l/h 0.76 kW (1 HP) 230/400 V III	E	65563	794.00
21,500 l/h 1.10 kW (1.5 HP) 230 V II	E	65564	915.00
21,500 l/h 1.10 kW (1.5 HP) 230/400 V III	E	65565	882.00
26,000 l/h 1.46 kW (2 HP) 230 V II	E	65566	931.00
26,000 l/h 1.46 kW (2 HP) 230/400 V III	E	65567	910.00
34,000 l/h 2.20 kW (3 HP) 230 V II	E	65569	1,027.00
34,000 l/h 2.20 kW (3 HP) 230/400 V III	E	65570	1,027.00





Sena pump

From a new generation of pump ranges. Certified to EN-60335-2-41:1996. GS marking. Motor protection IP-55. All parts in contact with water in AISI-316. Flow rates given at 8 m head for 1/3 HP, 8 m head for 1/2 HP, and 10 m head for the rest of the range.

Discount

Code

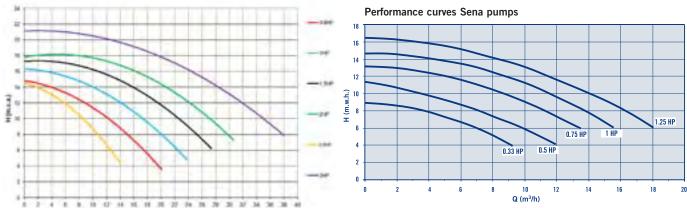
Unit £

	group		
7,000 l/h. 1/3 HP. 230 V II	Ε	25461	549.00
7,800 l/h. 1/2 HP. 230 V II	E	25462	568.00
10,400 l/h. 3/4 HP. 230 V II	Ε	25463	594.00
10,400 l/h. 3/4 HP. 230/400 V III	Ε	25464	594.00
12,800 l/h. 1 HP. 230 V II	Ε	25465	609.00
12,800 l/h. 1 HP. 230/400 V III	E	25466	609.00

These pumps are not suitable for salt water applications. Please select from our range of Blaufish pumps which are designed for salt water.

Union connections available in metric or imperial. (Please specify when ordering)









SMALL-SIZED TO FIT EVERYWHERE.

As a result of its compact design, Senext XP pump reduces its footprint by 25%* and can fit even in the smallest technical rooms.

*Senext XP 100M compared to AstralPool Victoria Plus Silent 100M.



BIG PERFORMANCE.

Senext XP pump delivers 12%* improvement in hydraulic performance.

It achieves higher efficiency and optimized flow by taking advantage of the new hydraulics and prefilter designs.

*Senext XP 100M compared to AstralPool Sena 100M.



EASY INSTALLATION AND MAINTENANCE.

Due to its retrofit platform and its specific fittings, Senext XP pump can be easily connected to any installation. Senext XP pump facilitates maintenance thanks to its tool-free easy-to-open pre-filter cap, its double water drainage for hibernation and its 2L-capacity pre-filter basket.





SELF-PRIMING PUMPS



- + Small-sized to fit everywhere
- + Big performance
- + Easy installation and maintenance

Senext XP











Range of compact self-priming pumps with single-phase and three-phase motors.

Engineered and built to perform outstandingly, for a long service with high reliability.

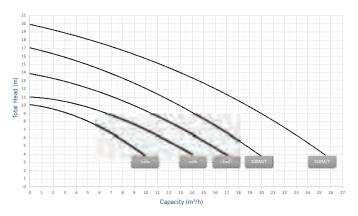
The main characteristics of Senext XP are:

- Small-sized to fit everywhere. As a result of its compact design, its footprint is reduced by 25%¹ and can fit even in the smallest technical rooms.
- **Big performance.** Senext XP pump provides 12% improvement in hydraulic performance and 13%² in efficiency.
- Easy installation. Thanks to its retrofit platform and its specific fittings, this range of pumps can be easily connected to any installation.
- Easy maintenance.
 - Extra large pre-filter basket of 2 liters
 - Tool-free easy-to-open prefilter cap
 - Double water drainage plug for hibernation
- ¹ Senext XP hp compared to AstralPool Victoria Plus Silent pump.
- ² Senext XP hp compared to AstralPool Sena hp.

	Discount group	Code	Unit £
Senext XP 0.3HP 230V II	E	71616	524.00
Senext XP 0.5HP 230V II	E	71617	530.00
Senext XP 0.75HP 230V II	E	71618	541.00
Senext XP 0.75HP 230/400V III	E	71619	541.00
Senext XP 1HP 230V II	E	71620	557.00
Senext XP 1HP 230/400V III	Е	71621	557.00
Senext XP 1.5HP 230V II	E	71622	624.00
Senext XP 1.5HP 230/400V III	E	71623	624.00

CODE	MODEL	Voltage HN Head Head Flow		Maximum Flow	Motor Rated Output	Maximum Absorved Power	Pipe Size		
		Un	QΝ	Ни	Нмах.	Q _{MAX}	P _{2N}	P _{1MAX}	D
		V	m³/h	m	m	m³/h	kW	kW	mm
71616	0.3HP II	230	5	8	10	10	0.38	0.35	D50
71617	0.5HP II	230	8.5	8	11	14	0.38	0.50	D50
71618	0.75HP II	230	12	8	14	17	0.56	0.65	D50
71619	0.75HP III	230/400	12	8	14	17	0.56	0.65	D50
71620	1HP II	230	15.5	8	17	20	0.75	0.88	D50
71621	1HP III	230/400	15.5	8	17	20	0.75	0.88	D50
71622	1.5HP II	230	21	8	20	25.5	1.12	1.30	D50
71623	1.5HP III	230/400	21	8	20	25.5	1.12	1.30	D50

Performance curves





SELF-PRIMING PUMPS

FOR SALT WATER USE



Union connections available in metric or imperial. (Please specify when ordering)

Nautilus salt water pumps

Designed for facilities with large amounts of suspended particles, ozone treatments and salt water. Mechanical seals in AISI 316 stainless steel and silicon carbon. Low noise levels due to rubber supports. Motor protection IP-55 GS labelled. 4 litres capacity strainer basket with transparent lid. Flow rate given at 10 m head.

	Discount group	Code	Unit £
7,500 l/h, 0.37 kW (1/2 HP) 230 V II	E	72549	954.00
7,500 l/h, 0.37 kW (1/2 HP) 230/400 V III	E	72550	948.00
11,000 l/h, 0.61 kW (3/4 HP) 230 V II	E	72551	945.00
11,000 l/h, 0.60 kW (3/4 HP) 230/400 V III	E	72552	1,017.00
16,000 l/h, 0.78 kW (1 HP) 230 V II	E	72553	983.00
16,000 l/h, 0.76 kW (1 HP) 230/400 V III	E	72554	981.00
21,000 l/h, 1.10 kW (11/2 HP) 230 V	E	72555	1,128.00
21,000 l/h, 1.10 kW (11/2 HP) 230/400 V III	E	72556	1,152.00
26,000 l/h, 1.50 kW (2 HP) 230 V II	E	72557	1,180.00
26,000 l/h, 1.46 kW (2 HP) 230/400 V III	E	72558	1,187.00
34,000 l/h, 2.20 kW (3 HP) 230 V	E	72559	1,382.00
34,000 l/h, 2.20 kW (3 HP) 230/400 V III	E	72560	1,226.00



CENTRIFUGAL PUMPS



Maxim pump 2860 rpm





Pump body and support in heat resistant plastic. S.S. motor shaft of AISI-316 with double insulation and with IP-55 motor protection. 8 litre capacity strainer, with transparent lid. Double protected shaft with IP-54 motor, 3" or 90 mm union connections. Please specify metric or imperial when ordering.

	group		
Maxim pump 3.5 HP	F	08003	2,269.00
Maxim pump 4.5 HP	F	08004	2,456.00
Maxim pump 5.5 HP	F	08005	2,466.00





These pumps are not suitable for salt water applications. Please select from our range of Blaufish pumps which are designed for salt water.

230 V valid for voltage: between 220 & 240 V

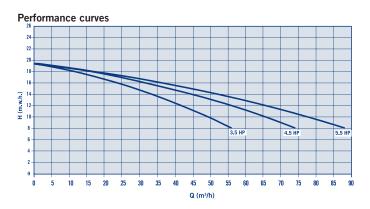
400 V valid for voltages between 380 & 420 V

690 V valid for voltages between 660 & 720 V

400/690 Star / Delta

Code Power	Connection Voltage		m.w.h.						
		Voltage	8	10	12	14	16	19.5	
			m³/h						
08003	3.5 HP	3" thread union	230/400 V III	56	50	42	34	23	0
08004	4.5 HP		230/400 V III	74	66	57	46	30	0
08005	5.5 HP		230/400 V III	88	78	67	53	34	0

Dimensions B C C A F



Technical features

Model	Туре	Volts	A mm	B mm	C mm	Ø D mm	E mm	F mm	G mm	H mm	l mm	J mm
08003	3.5	230/400	815	430	385	90	287	200	140	530	65	468
08004	4.5	230/400	815	430	385	90	287	200	140	530	65	468
08005	5.5	230/400	847	430	385	90	287	200	140	530	65	500



FOR SALT WATER USE



Pump comes with 90 mm connections, solvent 3" unions can be supplied if requested at time of ordering.



CENTRIFUGAL PUMPS

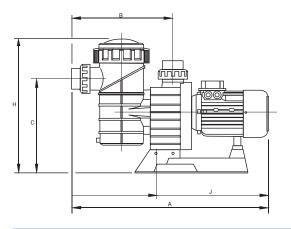
Shark salt water pump

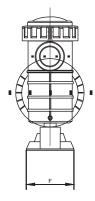


Designed for aquaculture and aquarium facilities with salt water, ozone treatment and suspended particles. Mechanical seals in AISI 316 stainless steel and silicon carbon. Motor axis in AISI-420 S.S. With double insulation. Low noise levels due to rubber supports. Motor protection IP-55 labelled. 8 litres capacity strainer basket with transparent lid. Self priming below 2 m. Without foot valve. Flow rates given at 10 m head. 90 mm connections.

	group	Oouc	Sinc 2	
58,000 l/h, 2.65 kW (3.5 HP) 230/400 V III	F	25493	2,846.00	
72,000 l/h, 3.3 kW (4.5 HP) 230/400 V III	F	25494	3,081.00	
90,000 l/h, 4.0 kW (5.5 HP) 230/400 V III	F	25495	3,094.00	

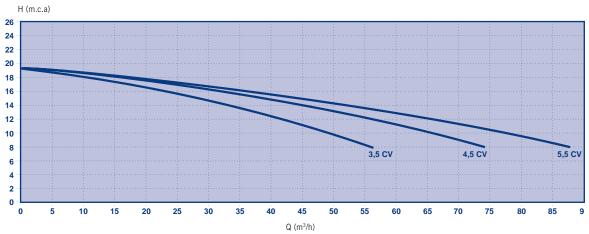
Dimensions





			m.w.h.										
Code	Power	Connection	Voltage	8	10	12	14	16	19.5				
				m³/h									
25493	3.5 HP	3"	230/400 V III	56	50	42	34	23	0				
25494	4.5 HP	thread	230/400 V III	74	66	57	46	30	0				
25495	5.5 HP	union	230/400 V III	88	78	67	53	34	0				

Performance curves





FOR SALT WATER USE







AstralPool Toolbox app for IOS and Android

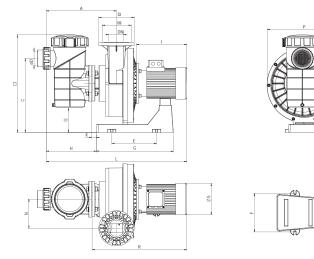
SELF-PRIMING PUMPS

Kivu Pump

High performance plastic self-priming pump for high flow rates (1500 rpm).

- 3 power modes: 3 HP, 4 HP and 5.5 HP.
- Low sound level: as low as 59 dBA.
- Hydraulic efficiency without prefilter 78% (as per ISO 9906 standard).
- High quality mechanical seal for salt water.
- IEC high efficiency motors (IE3).
- Standard motor shaft (compatibility with any pump manufacturer).
- Product with GS marking.
- Pump comes with pre-filter (in 2 packages: pump + prefilter).

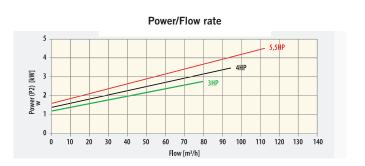
	Discount group	Code	Unit £
Kivu 3 HP 400/690V 50Hz + prefilter	F	63042	3,632.00
Kivu 4 HP 400/690V 50Hz + prefilter	F	63043	3,851.00
Kivu 5.5 HP 400/690V 50Hz + prefilter	F	63044	4,406.00



Code	Power	Α	D	DI	DNi	С	C1	E	F	G	Н	1	J	K	L	M	N	0	Р	Q	R	Ma	Mi
	HP											mm											
63042	3	440	90	220	100 - 4"	462	610	279	206	480	313	320	561	29,5	882	157	181.5	100	460	154	590	-	180
63043	4	440	90	220	100 - 4"	462	610	279	206	480	313	320	561	29,5	882	157	181.5	100	460	154	590	-	180
63044	5,5	440	90	220	100 - 4"	462	610	279	206	480	313	345	561	156	906	157	181.5	100	460	154	621	-	180

Graph showing performance of pumps without prefilter

Pressure/Flow rate 20 72,0 16 68,0 14 Head 10 64,0 60.0 2 20 30 40 70 80 90 100 110 120 130 Flow [m3/h]





FOR SALT WATER USE



Kivu Pump



Kiva pump Side view





Toolbox app for IOS and Android

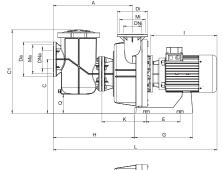
CENTRIFUGAL PUMPS

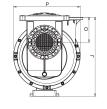
Kivu Pump

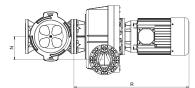


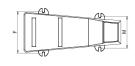
- 3 power modes: 7.5 HP, 10 HP and 15 HP.
- Low sound level: as low as 66 dBA.
- Hydraulic efficiency without prefilter 85% (9906 ISO standard).
- High quality mechanical seal for salt water.
- IEC high efficiency motors (IE3).
- Standard motor shaft (compatibility with any pump manufacturer).
- Product with GS marking.
- Pump comes with pre-filter (in 2 packages: pump + prefilter).

	Discount group	Code	Unit £
Kivu 7.5 HP 400/690 V 50Hz + prefilter	F	56634	6,563.00
Kivu 10 HP 400/690 V 50Hz + prefilter	F	56637	8,673.00
Kivu 15 HP 400/690 V 50Hz + prefilter	F	56639	10,548.00



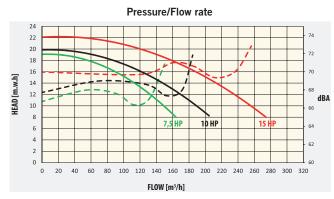


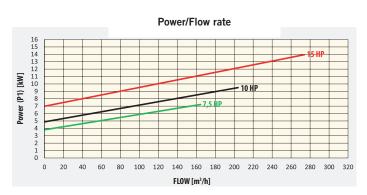




Code	Power	Α	DA	DI	DNA	DNi	С	C1	Е	F	G	Н	1	J	K	L	М	N	0	Р	Q	R	Ма	Mi
	HP											n	nm											
56634	7.5	653	285	250	150 - 6"	125 - 5"	446	688	279	206	290	540	410	653	141	1215	157	192	208	550	157	815	240	210
56637	10	653	285	250	150 - 6"	125 - 5"	446	688	279	206	290	540	445	653	141	1250	157	192	208	550	157	850	240	210
56639	15	653	285	250	150 - 6"	125 - 5"	446	688	279	206	290	670	510	653	271	1315	157	192	208	550	157	915	240	210

Graph showing performance of pumps without refilter





the following variations:
- bronze turbine
- stainless steel turbine (AISI 316-L).
- Viton mechanical seals.

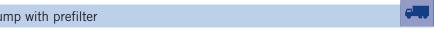




IE3 version: The same codes with suffix -320

CENTRIFUGAL PUMPS

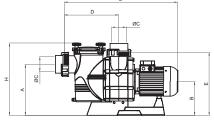
Colorado pump with prefilter



3000 rpm plastic centrifugal electric pumps with prefilter for pools, perfect for large, low-pressure flow rates. Prefilter with transparent lid and wishbone closure; easy access. Pump bodies and prefilter manufactured in fibreglass-reinforced polypropylene. Plastic turbine. Pump shaft and prefilter basket in stainless steel. IE2 motors with 3000 rpm IP-55 protection at 230/400 V or 400/690 V and 50 Hz. From 4 HP to 12.5 HP.

Discount

	group		
4 HP. 230/400 V	F	44706-120	1,646.00
5.5 HP. 230/400 V	F	44707-120	1,875.00
7.5 HP. 230/400 V	F	44708-120	2,078.00
10 HP. 230/400 V	F	44710-120	2,313.00
12.5 HP, 230/400 V	F	44712-120	3,024.00





Code	VOLTAGE	POV	VER	DIMENSIONS (mm)											
Code	(V)	kW	HP	Α	В	ØС	D	Ε	F	G	Н	L			
44706-120	230/400	2.9	4	375	255	90	405	470	330	200	535	820			
44707-120	230/400	4	5.5	375	255	110	405	470	330	200	535	840			
44708-120	230/400	5.5	7.5	375	255	110	405	470	330	200	535	840			
44712-120	230/400	7.4	10	375	255	110	405	470	330	200	535	910			
44712-120	230/400	9.2	12.5	375	255	110	405	470	330	200	535	955			





IE3 version: The same codes with suffix -320

Colorado pump without prefilter

3000 rpm plastic centrifugal electric pumps with no prefilter for pools, perfect for large, low-pressure flow rates. Pump bodies manufactured in fibreglass-reinforced polypropylene. Plastic turbine. Stainless steel pump shaft. IE2 motors with 3000 rpm IP-55 protection at 230/400 V or 400/690 V and 50Hz. From 7.5 HP to 12.5 HP.

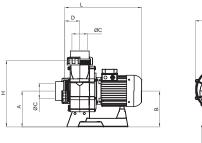
4 HP. 230/400 V 5.5HP. 230/400 V 7.5 HP. 230/400 V 10 HP. 230/400 V 12.5 HP, 230/400 V

Discount group	Code	Unit £
F	44714-120	1,397.00
F	44715-120	1,627.00
F	44716-120	1,829.00
F	44718-120	2,068.00
F	44720-120	2,779.00

Code	VOLTAGE	POV	VER	DIMENSIONS (mm)											
Code	(V)	kW	HP	Α	В	ØС	D	F	G	Н	L				
44714-120	230/400	2.9	4	255	255	90	105	330	200	470	510				
44715-120	230/400	4	5.5	355	355	110	105	330	200	470	530				
44716-120	230/400	5.5	7.5	255	255	110	105	330	200	470	530				
44718-120	230/400	7.4	10	255	255	110	105	330	200	470	600				
44720-120	230/400	9.2	12.5	255	255	110	105	330	200	470	645				

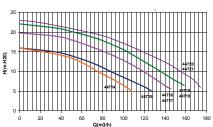








Yield curves - Models without a prefilter



Available in power modes from 4 to 12.5 HP.



CENTRIFUGAL PUMPS



Aral C-3000 pump Star/Delta





Made in cast iron. Mechanical seal in stainless steel. IP-54 motor protection. Stainless steel AISI-316 shaft. With stainless steel AISI-304 strainer basket. 3000 rpm. Connections PN 16 according to DIN 2501.



Aral C-3000 3 HP
Aral C-3000 4 HP
Aral C-3000 5.5 HP Connection DN 80-3"
Aral C-3000 5.5 HP Connection DN 100-4"
Aral C-3000 7.5 HP
Aral C-3000 10 HP
Aral C-3000 12.5 HP
Aral C-3000 15 HP

Discount group	Code	Unit £
F	01193	3,204.00
F	01195	3,574.00
F	01197	4,219.00
F	01199	4,600.00
F	01201	5,024.00
F	01203	5,291.00
F	01205	5,614.00
F	01207	6,195.00

				m.w.h.								
Code	Power	Connection	Voltage	8	10	12	14	16	20			
				m³/h								
01193	2.20 kW (3 HP)	DN 90-3"	230/400 V III	59	54	46	40	30	0			
01195	2.95 kW (4 HP)	DN 80-3"	400/690 V III	67	61	55	48	40	0			
01197	4.00 kW (5.5 HP)	DN 80-3"	400/690 V III	78	72	66	60	52	0			
01199	4.00 kW (5.5 HP)	DN 100-4"	400/690 V III	100	89	70	60	48	0			
01201	5.50 kW (7.5 HP)	DN 100-4"	400/690 V III	126	115	100	80	60	0			
01203	7.50 kW (10 HP)	DN 100-4"	400/690 V III	145	140	123	107	86	0			
01205	8.70 kW (12.5 HP)	DN 125-5"	400/690 V III	165	158	149	135	115	0			
01207	11.04 kW (15 HP)	DN 125-5"	400/690 V III	195	190	175	160	140	0			



Aral C-1500 pump Star/Delta





Made in cast iron. Mechanical seal in stainless steel. IP-54 motor protection. Stainless steel AISI-316 shaft. With stainless steel AISI-304 strainer basket. Connections PN 16 according to DIN 2501. 1,450 rpm.



Α	ral	C-1	500	4 F	ΗP
Α	ral	C-1	500	5.5	5 HP
Α	ral	C-1	500	7.5	5 HP
Α	ral	C-1	500	10	HP
Α	ral	C-1	500	12	.5 HP
Α	ral	C-1	500	20	HP
Α	ral	C-1	500	25	HP

Unit £
4,116.00
5,487.00
6,132.00
6,342.00
7,938.00
14,041.00
17,426.00

					m.w.h.							
Code	Power	Suction Connection	Discharge Connection	Voltage	10	12	14	16	18	20		
					m³/h							
01210	3.00 kW (4 HP)	DN 80-3"	DN 65-21/2"	400/690 V III	68	60	45	0	0	0		
01212	4.00 kW (5.5 HP)	DN 80-3"	DN 65-21/2"	400/690 V III	88	80	70	58	0	0		
01216	5.50 kW (7.5 HP)	DN 100-4"	DN 80-3"	400/690 V III	115	101	87	70	0	0		
01218	7.50 kW (10 HP)	DN 100-4"	DN 80-3"	400/690 V III	150	140	125	115	0	0		
01220	9.20 kW (12.5 HP)	DN 125-5"	DN 100-4"	400/690 V III	192	175	155	130	0	0		



STRAINERS



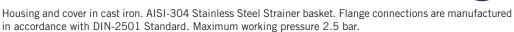
Strainer in polypropylene and fibreglass

Flanges drilled according to DIN-2501 Standard. Supplied with 3 piece coupling at the inlet. 8 litre capacity. Inlet size: \emptyset 90 mm and outlet \emptyset 110 mm.

Discount group	Code	Unit £
F	09879	360.00









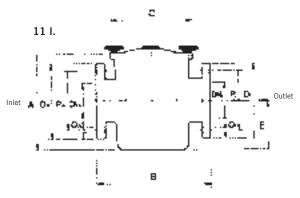
11I Capacity

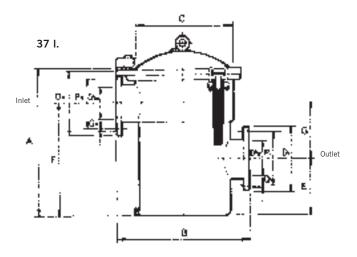
Flanges DN 65 (2 ¹ / ₂ ") DN 65 (2 ¹ / ₂ ")
Flanges DN 100 (4") DN 100 (4")
Flanges DN 125 (5") DN 125 (5")
Flanges DN 80 (3") DN 65 (21/2")
Flanges DN100 (4") DN 80 (3")
Flanges DN 125 (5") DN 100 (4")

37I Capacity Flanges DN 150 (6") DN 150 (6")

Discount group	Code	Unit £
F	20026	970.00
F	20029	1,103.00
F	20030	1,130.00
F	20031	985.00
F	20032	1,103.00
F	20033	1,130.00
F	01268	3 371 00







Code	Capacity	Inlet Connection					Outlet Connection				Dimensions (mm)						
		DA		PA	Q	Α	Di		Pi	0	Qi				,,,,	,	
Aral	I	(mm)	IDNA	(mm)	N°	Ø (mm)	(mm)	DNi	(mm)	N°	Ø (mm)	Α	В	С	Е	F	G
20026	11	185	65-2 ¹ / ₂ "	145	4	18	185	65-2 ¹ / ₂ "	145	4	18	315	392	295	159	_	_
20029	11	220	100-4"	180	8	18	220	100-4"	180	8	18	315	392	295	159	_	-
20030	11	250	125-5"	210	8	18	250	125-5"	210	8	18	315	392	295	159	-	-
20031	11	200	80-3"	160	8	18	185	65-2 ¹ / ₂ "	145	4	18	315	392	295	159	-	-
20032	11	220	100-4"	180	8	18	200	80-3"	160	8	18	315	392	295	159	-	-
20033	11	250	125-5"	210	8	18	220	100-4"	180	8	18	315	392	295	159	_	-
01268	37	285	150-6"	240	8	22	285	150-6"	240	8	22	649	600	542	250	507	257



CONTROL BOXES



Control boxes

IP-65 protection. Glass panel with lock and key. All units are compatible with:

- 220/240V 1-phase (P+N+T) 50Hz/60Hz
- 380/415V 3-phase (3P+N+T) 50Hz/60Hz
- 220/230V 3-phase (3P+T) 50Hz/60Hz

24h programming clock with hourly programming. Connection for remote control of pump (on/off,...) and for auxiliary equipment (cold detector, level control...).

All products supplied with:

- Electrical diagram
- Connection diagram
- Instructions for installation
- CE conformity certificate
- Stuffing box at every cable entrance
- Screws and plugs (4) for fixing to wall

The control box model should be selected according to the nominal voltage of the pump:

Туре	Intensity range	Intensity range Power Range 1-phase 230V		Power Range 3-phases 230V
А	1.6A - 2.5A	1/4 HP	¾ HP - 1 HP	½ HP
В	2.5A - 4A	½ HP	1.5 HP - 2 HP	¾ HP - 1 HP
С	4A - 6.3A	¾ HP - 1 HP	3 HP*	1.5 HP
D	6A - 10A	1.5 HP	4 HP**	2 HP - 3 HP

^{*} Also 3.5 hp 400V 3~ in plastic (code 08003)



Control box for pump overload protection

Thermal overload protection (1.6 to 10A), contactor, 24 hr programming clock, modular switch with 3 positions, Auto / 0 / Manual.

	Discount group	Code	Unit £
Type A	E	25717	310.00
Type B	E	25718	310.00
Type C	E	25719	310.00
Type D	E	25720	310.00

^{**} Also 4.5 and 5.5 hp 400 V 3~ in plastic (codes 08004, 08005)



CONTROL BOXES



Control box for pump overload protection and underwater light

Thermal overload protection (1.6 to 10A), contactor, 24 hr programming clock, modular switch with 3 positions: Auto / 0 / Manual.

	Discount group	Code	Unit £
Type A Type B Type C Type D	E E E	25721 25722 25723 25724	353.00 353.00 353.00 353.00



Control box for pumps overload protection and underwater light with differential protection

Thermal overload protection (1.6 to 10A), contactor, 24 hr programming clock.

Three positions: Auto/O/manual. Protected 230 V 10 A output and controlled for underwater projectors. Single-phase.

	group	Code	Oillt £
Type A	E	25725	468.00
Туре В	Ε	25726	468.00
Type C	E	25727	468.00
Type D	E	25728	468.00
Type C	E E E	25727	468.00



Control box for pump overload protection and 1 set of LED underwater lights

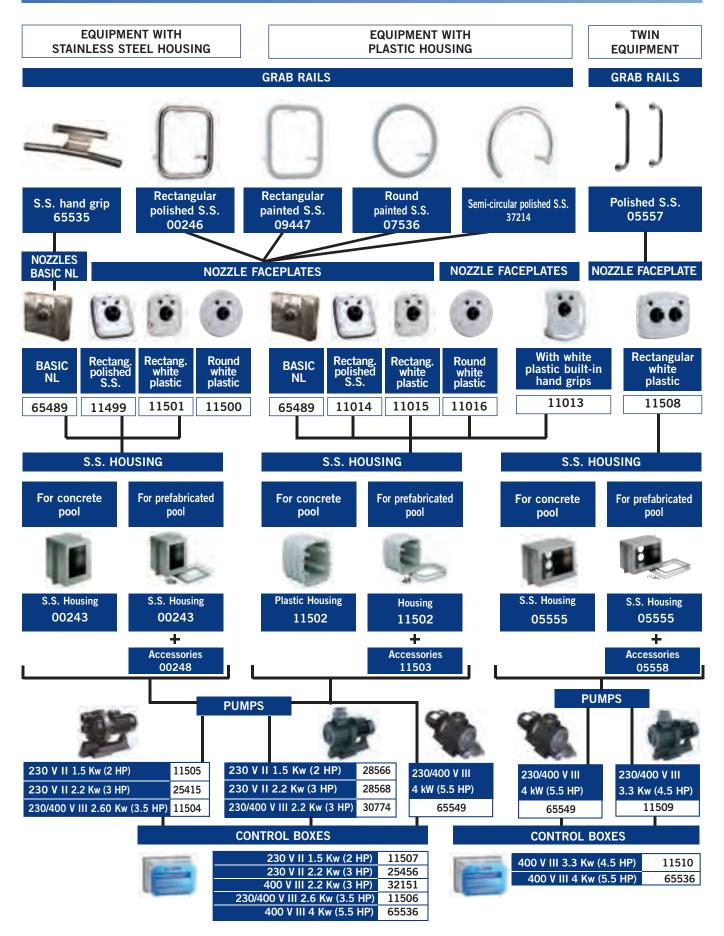
New

Control box for pump overload protection and 1 set of LED underwater lights. Thermal overload protection (1.6 to 10A), contactor, 24 hr programming clock. Three positions: Auto/O/manual. 12V 100VA. Protected output for 1 set of LED underwater lights.

	group	Code	Onit £
Type A Type B Type C	E E E	74991 74992 74993	468.00 468.00 468.00
Type D	E	74994	468.00



COUNTERCURRENT SWIMMING EQUIPMENT - QUICK SELECTION GUIDE



COUNTERCURRENT SWIMMING EQUIPMENT



Basic NL kit

Countercurrent unit upgraded with a new design.

Complete kit made up of:

- Polished stainless front cover.
- Push button start/stop.
- Venturi Regulation.
- S.S Housing.
- 5.5 HP Three Phase pump.
- Control box.
- Handle.

	Discount group	Code	Unit £
Basic NL concrete	1	66470	3,883.00
Basic NL liner	1	66471	4,026.00



Basic ND Kit

The water outlet through side slats brings innovation to countercurrent units.

Complete Kit made up of:

- Countercurrent swimming unit with polished AISI 316 stainless steel front cover.
- Illuminated piezoelectric push button.
- Air water return nozzle, flow rate of 50 m³/h and built in suction system.
- $\bullet\,$ Two suction grilles with a capacity of 30 m³/h made of polished AISI 316 stainless steel.
- 5.5 HP Three Phase pump.
- Flow rate of 50 m³/h
- Power control cabinet.

	Discount group	Code	Unit £
Basic ND Kit concrete	1	65498	4,314.00
Basic ND Kit liner		66044	5,512.00



Advance ND Kit

 $The \ water \ outlet \ through \ side \ slats \ brings \ innovation \ to \ countercurrent \ units \ with \ top \ performance.$

Complete Kit made up of:

- Countercurrent swimming unit with polished AISI 316 stainless steel front cover.
- Illuminated piezoelectric push button.
- Air water return nozzle, flow rate of 25-50 m³/h adjusted from a variable speed drive and has a built in suction system.
- Two suction grilles with a capacity of 30 m³/h made of polished AISI 316 stainless steel.
- 5.5 HP Three Phase pump.
- Power control cabinet.
- Flow rate of 25 to 50 m³/h.
- Max. flow rates of 12 m/s at the units outlet, 2.4 m/s 1 m away, 1.7 m/s 1.5 m away and 1.5 m/s 2 m away.

	Discount group	Code	Unit £
Advance ND Kit concrete	J	65497	7,070.00
Advance ND Kit liner	J	66043	8,292.00





COUNTERCURRENT SWIMMING EQUIPMENT



With polished S.S. AISI-316 rectangular faceplate



Composed of: Faceplate, nozzle unit, ON/OFF switch and air regulation button. Components in AISI-316 Stainless Steel.

Discount

Code

Unit £

	group		
Nozzle faceplate for S.S. housing	1	11499	1,079.00
Nozzle faceplate for plastic housing		11014	1,013.00



With white plastic rectangular faceplate and built-in hand grip



Composed of: Faceplate, nozzle unit, ON/OFF switch and air regulation button. Components in AISI-316 Stainless Steel.

teer.	Discount group	Code	Unit £
	J	11013	915.00



Hand grip S.S. nozzle front suction inlet



Made of stainless steel AISI-316 polished. Exclusive mounting for code 65489.

·	Discount group	Code	Unit £
Hand grip	J	65535	213.00



Rectangular hand grips



Polished S.S. AISI-316. Specially designed for 11014 and 11499. Nevertheless can be mounted on any of the

other nozzle sets except the 11013.	Discount group	Code	Unit £
Hand grip	J	00246	235.00



S.S. Housing



In Stainless Steel AISI-316. 240 mm in depth. Suitable for both concrete and pre-fabricated pools. Supplied with leak-proof elements and 3 m cable wall conduit.

Discount group	Code	Unit £
J	00243	610.00

FILTRATIO

COUNTERCURRENT SWIMMING EQUIPMENT



For mounting in pre-fabricated and liner pools



In AISI-304 Stainless Steel. With gaskets and screws.

Discount group	Code	Unit £
J	00248	162.00



Housing



Made in unalterable plastic. Supplied with leak-proof elements and two conduits of 3 m each.

scount group	Code	Unit £
J	11502	494.00



Accessory for fitting in liner and polyester pools



In plastic. With gaskets and screws.

Discount group	Code	Unit £
J	11503	157.00

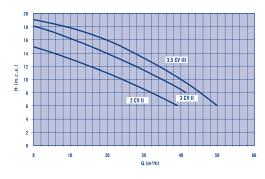


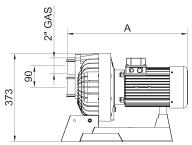
Pump



Made of plastic. Double insulation motor shaft. IP-54 motor insulation.

	Discount group	Code	Unit £
1.5 kW power (P1: 1.85 kW) Single-phase 230 V 50 Hz	J	11505	2,209.00
2.2 kW power (P1: 2.7 kW)) Single-phase 230 V 50 Hz	J	25415	2,309.00
2.60 kW power (P1: 3.3 kW) Three-phase 230/400 V 50 Hz	J	11504	2,209.00







Code	HP	Α
11505	2 11	474
25415	3 II	475
11504	3.5 III	516



COUNTERCURRENT SWIMMING EQUIPMENT



BCCIV pump, for vertical propulsion countercurrent equipment



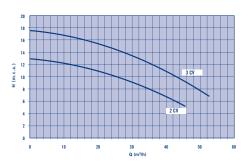
Specially designed for countecurrent equipment with high performance output, greater diameter of return and propulsion pump connections for enhanced performance output, required for this type of equipment. It is important not to add any special features to the installation, as they may limit connections significantly. All the pumps' metal components in contact with water are manufactured in AISI-316 Stainless Steel, highly resistant to corrosion.

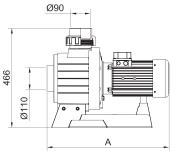
Discount

Code

Unit £

	group		
Power 1.5 Kw 2 HP Single Phase, 230 V 50 Hz	J	28566	1,236.00
Power 2.2 Kw 3 HP Single Phase, 230 V 50 Hz	J	28568	1,359.00
Power 2.2 Kw 3 HP Three Phase, 230/400 V 50 Hz	J	30774	1,132.00
Power 4 Kw 5.5 HP III 230/400 V 50 Hz	J	65549	1,666.00







Code	HP	Α
28566	2 II	496
28568	3 II	538
30774	3 111	538



Control boxes



Electro-pneumatic box. Pumps are operated through the nozzle actuators.

	Discount group	Code	Unit £
For 230 V II 1.5 kW (2 HP) pumps	J	11507	714.00
For 230 V II 2.2 kW (3 HP) pumps	J	25456	718.00
For 230/400 V III 2.6 kW (3.5 HP) pumps	J	11506	714.00
For 400 V III 4 kW (5.5 HP) pumps	J	65536	621.00



COUNTERCURRENT SWIMMING EQUIPMENT

New Countercurrent Swimming Equipment. The innovative design and concept supplied as a kit (including faceplate, housing, control box and pump) makes it an element which will add significant value to your pool. A highly competitive product thanks to its high performance hydraulic features, the Marlin Countercurrent System is available in 3 models: the Marlin 30 II, the Marlin 30 III and the Marlin 45 III. Possibility of attaching grab rails and hydromassage hose.



Marlin 30 II (single phase)

Consists of: Nozzle faceplate, plastic housing, control box and pump 2.2 kW (3 HP) 230 V II 50 Hz.

Discount group	Code	Unit £
J	35375	1,994.00

Marlin 30 III (three phase)

Consists of: Nozzle faceplate, plastic housing, control box and pump 2.2 kW (3 HP) 400 V III 50 Hz.

Discount group	Code	Unit £
J	35376	2.072.00

Marlin 45 III (three phase)

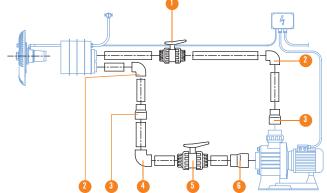
Consists of: Nozzle faceplate, plastic housing, control box and pump 3.3 kW (4.5 HP) 400 V III 50 Hz.

Discount group	Code	Unit £
J	35377	2,122.00



Accessories (not included in the kit)

Pos	Q	Denomination	Code
1	1	PVC Ball valve Ø63 mm	02458
2	2	PVC elbow 90° Ø63 mm	01717
3	2	Conical reduction Ø90-75x63 mm	01993
4	1	PVC elbow 90° Ø75 mm	01718
5	1	PVC Ball valve Ø75 mm	02459
6	1	Conical reduction Ø110-90x75 mm	01997
-	-	PVP pipe Ø63 mm PN-6	02692
-	-	PVP pipe Ø75 mm PN-6	02693







WATER TREATMENT PRODUCTS

142 • Astral Chemical Range



WATER TREATMENT PRODUCTS

Prices subject to change

Currently chemicals can only be despatched on pallets

Water treatment products sold in box quantities only

ASTRAL CHEMICAL RANGE

Chlorine Granules Stabilised

	Discount group	Code	Box Price £	Pack Size
Chlorine Granules 1kg	G	CLGRAN1OL	106.00	6
Chlorine Granules 5kg	G	CLGRAN5OL	192.00	4
Chlorine Granules 25kg	G1	CLGRAN250L	227.00	1
Multifunctional Chlorine Granules 2kgs	G	CLULTGRN2OL	190.00	6
Multifunctional Chlorine Granules 5kgs	G	CLULTGRN50L	202.00	4

Trichlor chlorine tablets

	Discount group	Code	Box Price £	Pack Size
Chlorine Tablets 200g 2kg	G	CLTAB20020L	32.00	1
Chlorine Tablets 200g 5kg	G	CLTAB20050L	69.00	1
Chlorine Tablets 200g 25kg	G1	CLTAB200250L	329.00	1
Mini chlorine tablets 2,5kg	G	CLTAB20250L	64.00	1
Mini chlorine tablets 5kg	G	CLTAB2050L	69.00	1

Multifunctional Chlorine Tablet

	Discount group	Code	Box Price £	Pack Size
Multifunctional Chlorine Tablets 200g 2kg Multifunctional Chlorine Tablets 200g 5kg Multifunctional Chlorine Tablets 200g 25kg Multifunctional Chlorine Tablets 20g 5kg	G G G1 G1	MFTAB20020L MFTAB20050L MFTAB200250L MFTAB2050L	33.00 71.00 339.00 71.00	1 1 1

Bromine

	Discount group	Code	Box Price £	Pack Size
Bromine BCDMH 5kg	G	BRTAB50L	628.00	4



Prices subject to change

Currently chemicals can only be despatched on pallets

Water treatment products sold in box quantities only

ASTRAL CHEMICAL RANGE

Granular Shock

	group	Oode	Price £	Size
Granular Shock 2kg	G	SHGRAN2OL	203.00	6
Granular Shock 5kg	G1	SHGRAN5OL	212.00	4

Liquid Chlorine 14/15% 20Lts

	Discount group	Code	Box Price £	Pack Size
14 / 15 % Sodium Hypochlorite 20lt	G1	HYPO1520CM	46.00	1

Calcium Hypochlorite (procal)

	Discount group	Code	Box Price £	Pack Size
Calcium Hypochlorite (procal) 25kg	G1	SHGRAN25CM	217.00	1

Hydrochloric Acid 28%

	Discount group	Code	Box Price £	Pack Size
Hydrochloric Acid 28% 25It	G1	WBACID2825CM	58.00	1

Non Chlorine Shock

	Discount group	Code	Box Price £	Pack Size
Non Chlorine Shock 5kg	G1	NCLSHOCK50L	456.00	4

pH Minus

	Discount group	Code	Box Price £	Pack Size
pH Minus 7kg	G	PHMIN7OL	40.00	2
pH Minus 25kg	G1	PHMIN250L	53.00	1
pH Minus 25kg bag	G1	PHMIN25CM	43.00	1

pH Plus / Soda ash

	Discount group	Code	Box Price £	Pack Size	
pH Plus 5kg	G	PHPLUS50L	72.00	4	

WATER TREATMENT PRODUCTS

Prices subject to change

Currently chemicals can only be despatched on pallets

Water treatment products sold in box quantities only

ASTRAL CHEMICAL RANGE

TA Plus - Sodium bicarbonate

TA Plus - Sodium Bicarbonate 5kg

Discount	Code	Box	Pack
group		Price £	Size
G1	TAPLUS50I	20.00	1

Stabiliser / Conditioner

	Discount group	Code	Box Price £	Pack Size
Stabiliser / Conditioner 2kg	G	SPCOND20L	23.00	1

Granular Floc

	Discount group	Code	Box Price £	Pack Size
Granular Floc 2kg	G	CLAFLOC2OL	92.00	6
FlocPAC Super 20It	G	CLAPAC20Cm	64.00	-

Algaecides

	Discount group	Code	Box Price £	Pack Size
Algaecide - Copper Free 2It	G	ALGAE2OL	111.00	6
Summerclear (long-life) - non-copper 2It	G	ALGAESUMC2OL	162.00	6
Heavy Duty Algaecide 20It	G1	ALGAEHD2OCM	270.00	1

Cationic Liquid Clarfier

	Discount group	Code	Box Price £	Pack Size	
Cationic Liquid Clarifier 2It	G	CLACAT2OL	113.00	6	

Tile and Liner Cleaner

	Discount group	Code	Box Price £	Pack Size
Tile and Liner Cleaner 6 x 2lt	G	CPTL20L	51.00	-



- 146 Salt electrolysis & pH control
- 148 UV Automatic Disinfection
- 152 Control panels
- 154 Dosing Pumps
- 156 Tanks and Bunds
- 156 Mixers
- 157 Accessories
- 158 Spares
- 160 Control systems
- 161 Dosing equipment
- 163 Test kits and photometers



SALT ELECTROLYSIS & pH CONTROL

Elite Connect







- Connected product using built-in Ethernet port and PoolStation app (available on iOS & aOS).
- NN compatible: Smart control within Fluidra Connect pool automation and NN app (available on iOS & aOS).
- Scalable control functions with S-Driver® plug-in modules (pH, Rx and Cl ppm).
- 2.8" TFT colour touchscreen.
- Compatible with Fluidra Connect and integrated PoolStation.
- It has 4 digital inputs and 4 digital outputs (relay) to control the filter pump, heat pump, lighting, watering system, etc.
- Equipped with a gas sensor, a flow switch and a compact sensor holder (pH option) as standard.
- Equipped with high quality electrodes, with a service life of up to 12,000 hours under normal conditions.
- Output control from 0 to 100%.
- pH dosing pump included with pH option.
- Low-salt version (1-4 g/l).
- New for 2020: VSP driver that can control 3-speed variable speed pumps and backwash piston valves.





Fluidra Connect



Embedded System







Possibility of upgrading the unit with S-Driver®

	Discount group	Code	Unit £
Elite Connect Elite Connect 12 g/h Elite Connect 24 g/h Elite Connect 32 g/h Elite Connect 42 g/h	н н н	70012 70013 70014 70016	1,470.00 1,681.00 1,892.00 2,727.00
Elite Connect pH Elite Connect pH 12 g/h Elite Connect pH 24 g/h Elite Connect pH 32 g/h Elite Connect pH 42 g/h	Н Н Н	70019 70021 70023 70025	2,065.00 2,277.00 2,488.00 3,322.00
Elite Connect pH/Rx Elite Connect pH/Rx 12 g/h Elite Connect pH/Rx 24 g/h Elite Connect pH/Rx 32 g/h Elite Connect pH/Rx 42 g/h	Н Н Н	70031 70032 70033 70035	2,907.00 3,118.00 3,330.00 4,164.00
Elite Connect pH/ppm Elite Connect pH/ppm 12 g/h Elite Connect pH/ppm 24 g/h Elite Connect pH/ppm 32 g/h Elite Connect pH/ppm 42 g/h	Н Н Н	70361 70363 70365 70369	6,088.00 6,299.00 6,510.00 7,344.00
Elite Connect LS Elite Connect LS 12 g/h Elite Connect LS 24 g/h Elite Connect LS pH 12 g/h Elite Connect LS pH 24 g/h Elite Connect LS pH/Rx 12 g/h Elite Connect LS pH/Rx 24 g/h Elite Connect LS pH/ppm 12 g/h Elite Connect LS pH/ppm 24 g/h	H H H H H	70037 70039 70040 70042 70047 70048 70371 70372	1,601.00 1,985.00 2,196.00 2,580.00 3,038.00 3,422.00 6,219.00 6,602.00
Driver SD-pH SD-Pump (pH) SD-ORP	н н н	70049 70054 70051	523.00 164.00 816.00

Н





SD-PPM

SD-VSP





4,060.00

poa

70052

72883

70049 70054 70051 70052

SALT ELECTROLYSIS & pH CONTROL







A salt water chlorinator with optional ph automated control.

- Compatible with Fluidra Connect.
- Equipped with a gas sensor (optional flow switch) and compact sensor holder (pH option) as standard.
- · Monitors temperature and salinity.
- Equipped with high quality electrodes, with a service life of up to 10,000 hours under normal conditions.
- Output control from 0 to 100%.
- pH dosing pump included with pH option.

	Discount group	Code	Unit £
Smart Next	0 1		
Smart Next 7 g/h	Н	70058	961.00
Smart Next 12 g/h	Н	70060	1,087.00
Smart Next 21 g/h	Н	70062	1,326.00
Smart Next 30 g/h	Н	70063	1,491.00
Smart Next 40 g/h	Н	70064	2,090.00
Smart Next pH			
Smart Next pH 7 g/h	Н	70083	1,554.00
Smart Next pH 12 g/h	Н	70084	1,679.00
Smart Next pH 21 g/h	Н	70085	1,919.00
Smart Next pH 30 g/h	Н	70086	2,084.00
Smart Next pH 40 g/h	Н	70093	2,683.00
Smart Next pH/Rx			
Up to 30 m ³ 7 g/h	Н	71692	2,197.00
Up to 50 m³ 12 g/h	Н	71693	2,323.00
Up to 90 m³ 21 g/h	Н	71694	2,562.00
Up to 140 m³ 30 g/h	Н	71695	2,727.00
Up to 180 m ³ 40 g/h	Н	71696	3,326.00
Option:			
Flow switch, D.50 collar and adaptor	Н	71124	99.00





UV AUTOMATIC DISINFECTION



Domestic UV Systems

New range of domestic UV systems. Tough outer casing withstanding upto 4 bar pressure. Low energy electronic ballast positioned in a fully water tight compartment with full thermal overload protection. Now Supplied with 1.5" male or 2" Slip fitting with reducing bush. Easy to install with pre-fitted stainless steel mounting brackets.



15	W	U٧	System
25	W	U٧	System
30	W	U٧	System
55	W	U٧	System
75	W	U۷	System

Discount group	Code	Unit £
Н	UVC-15AN	250.00
Н	UVC-25AN	271.00
Н	UVC-30AN	363.00
Н	UVC-55AN	384.00
Н	UVC-75AN	445.00

MP range - Dechloraminators public pools and spas with medium pressure lamps "MP"



	UVC15N	UVC25N	UVC30N	UVC55N	UVC75N
For Swimming Pools upto (litres)	15,000	25,000	30,000	55,000	75,000
Max. Flow rate (litres / hour)	7,500	10,000	15,000	20,000	25,000
Bulb life (hours)	9000	9000	9000	9000	9000
Connections	BSP 1.	5" Male	2" slip fitting with reducing bush		
Dimensions (mm)	450 x 167 x 88	450 x 167 x 88	1000 x 167 x 88	1000 x 167 x 88	1300 x 167 x 88



UV AUTOMATIC DISINFECTION

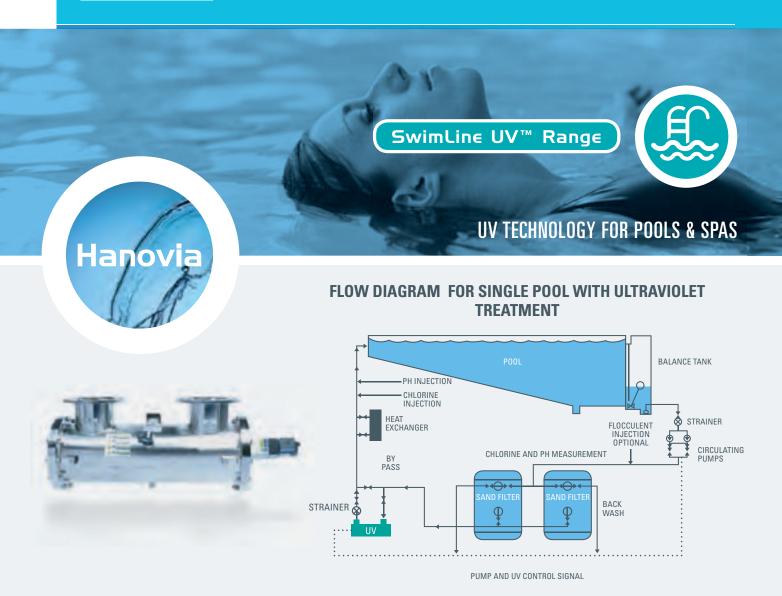


Hanovia

MEDIUM PRESSURE UV TREATMENT FOR POOLS AND SPAS

Hanovia medium pressure UV systems deliver effective treatment (chloramine removal and disinfection) for all leisure facilities from spas through to large competition pools. By using medium pressure lamps we break down not only monochloramine but also di- and trichloramine which are responsible for eye and skin irritation, headaches and unpleasant odours. Using UV in the water treatment process provides bathers and staff with a pleasant and safe environment. UV has the added advantage of being effective against chlorine resistant microorganisms such as Cryptosporidium and Giardia.

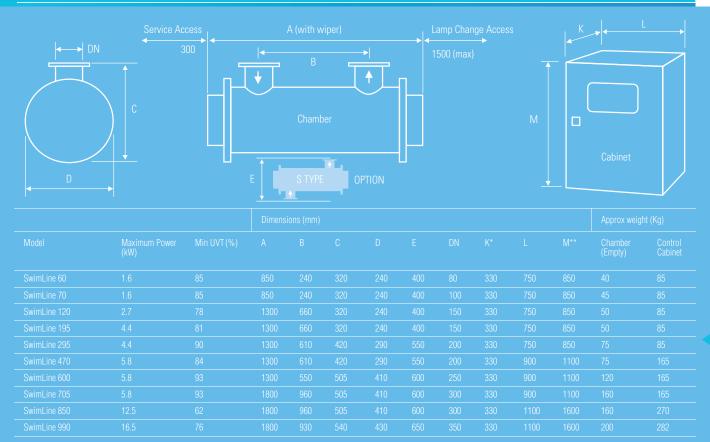
Model	Description	Flange Type	Flow Rate m³/hr	UV Dose mJ/cm ²	Lamp Power	Connection Size	Unit £
SWIMLINE 60	All UV systems include:	PN16	51	60	1.2 kW	DN 80	poa
SWIMLINE 70		PN16	61	60	1.2 kW	DN 100	poa
SWIMLINE 120	316L SS chamber;	PN16	128	60	2.5 kW	DN 150	poa
SWIMLINE 195	mild steel cabinet;	PN16	181	60	3.5 kw	DN 150	poa
SWIMLINE 295	automatic wiper;	PN16	251	60	3.5 kW	DN 200	poa
SWIMLINE 470	UV monitor; temperature sensor;	PN16	318	60	5.5 kW	DN 200	poa
SWIMLINE 600	energy-saving function;	PN16	500	60	5.5 kW	DN 250	poa
SWIMLINE 705	strainer and	PN16	547	60	5.5 kW	DN 300	poa
SWIMLINE 850	10m cables	PN16	707	60	10.5 kW	DN 300	poa
SWIMLINE 990		PN16	854	60	14.0 kW	DN 350	poa



UV TREATMENT FOR POOLS AND SPAS

Hanovia's SwimLine UV systems deliver effective treatment (chloramine removal and disinfection) for all leisure facilities from spas through to large competition pools. By using medium pressure lamps we break down not only monochloramine but also di- and trichloramine which are responsible for eye and skin irritation, headaches and unpleasant odours. Using UV in the water treatment process provides bathers and staff with a pleasant and safe environment. UV has the added advantage of being effective against chlorine resistant microorganisms such as Cryptosporidium and is up to 5 times cheaper to maintain and occupies only 1/10th of the space of ozonation equipment.

KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
UV intensity monitor	Continuous verification of performance with in-built low intensity alarm	Easy to monitor and log system performance
Flow meter input	Real time adjustment of lamp power based on flow	Saves power
OPTIMISATION		
Medium pressure lamp	Provides UV light at 200 to 400 nm wavelengths ideal for the destruction of mono-, di- and trichloramine	Visibly clear water with reduced odours
		Reduced corrosion risk
		Minimises bathers' eye and skin irritation
	Provides germicidal wavelengths to disinfect the water	Protect bathers from chlorine resistant microorganisms such as <i>Cryptosporidium</i> or <i>Giardia</i>
	Automatic wiper (quartz cleaning)	Self cleaning
INTEGRATION		
Designed specifically for pools	UVShield™ power cut-out for lamp access (option)	Enhanced operator safety when changing a lamp
	Water leak detection (option)	Increased bather safety when used with a strainer



Allow dimension L in front of cabinet for door opening and panel access

All dimensions are approximate for clearance purposes only. Hanovia has a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your distributor or Hanovia account manager can advise on correct sizing and specification requirements

UV CHAMBER	
Material:	Stainless steel 316L / 1.4404
Internal finish:	As made pipe and tube, welds as laid, electropolished and passivated
External finish:	Sateen polish (120 grit) electropolished and passivated
Process (mating) connections:	Flange EN 1092-1 PN16
Drain connection:	BSPT
End plate:	Removable end plate
Degree of protection:	IP65 equivalent to NEMA 4 but not for outside use
Wiper:	Automatic (electrically driven)
Arc tube (lamp):	Medium pressure
Arc tube enclosure:	Pure quartz
Number of arc tubes (lamps):	1 to 4 dependent on model
Expected lamp life:	4000-8000 hours
Temperature sensor:	Yes
UV monitor:	Wet UV monitor (to minimum UVT)
Working fluid temperature:	5°C to 60°C (80°C unwiped)
Strainer:	Yes
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
Chamber mounting:	Horizontal only
Operating pressure:	6 bar
Pressure loss:	Typically < 70 mbar
Seals:	EPDM

n	PΤ	ኅ	N	ıc
U	П	J	I١	к

Operation and Maintenance manual and printed Installation and Commissioning manual in Chinese, English, French, German and Spanish

Flange options: ANSI 150 (with NPT drain), JIS, Table 'E' Lead length: 20 m, 30 m or 50 m cabinet to chamber

Skid mounting

Vent valve: Manual valve

Aggressive water package: For 400 ppm to 20000 ppm chloride water

UVShield™: Power cut-out for lamp access

Water leak detection: Detects water leaks from quartz sleeve

Chamber configuration: S shape

Material:	Polyester coated carbon steel
Degree of protection:	IP54 NEMA 12
Supply voltages (nominal):	SL 60-120 95 V to 260V SL 195-705 190 V to 480 V
	SL 850-990 380 V to 480 V 50/60 Hz
	(voltage tolerance ± 10% of nominal)
Operating temperature range:	5°C to 40°C
Relative humidity:	<95% non-condensing
Cooling fans:	Yes
Interconnecting cable lengths:	10 m cabinet to chamber
Power adjustment:	4 level power stepping
CUSTOMER OUTPUTS	
4-20 mA passive or active outputs:	UV intensity, UV dose
VFC outputs:	System warning, lamp ready, low UV intensity, common trip, remote reset, ELCB or water leak, system available, local or remote mode
CUSTOMER INPUTS	
4-20 mA passive or active input:	Flow meter
VFC inputs:	Remote stop/start and remote reset
CUSTOMER COMMUNICATIONS P	ORT
None	
APPROVALS	

CE marked, UL listed E 149108

^{**} M dimension includes the space for the cabinet mounting brackets but you need to allow space below the cabinet for cable entry and access (minimum of 250 mm)

DOMESTIC SYSTEM



Redox Monitoring & Control with Feeder Assembly Kit

New

Redox Monitoring Kit: Simple redox only controller capable of switching a solenoid valve on an erosion feeder. Includes a redox probe and inline probe holder. Can be adapted to other online feeders on request.

Feeder Assembly Kit: Feeder assembly including flow meter, solenoid valve, isolation valves and pipework etc. Designed around a Rainbow 3315 High-Capacity Feeder but can adapt the design to other offline feeders.

Considerations:

- Good for indoor bromine pools.
- Redox is a measurement of the activity of the sanitiser and not the amount of sanitiser. Redox is displayed as an mV reading and not PPM.

	Discount group	Code	Unit £
Redox Monitoring Kit	H	RSF	838.00
Erosion Feeder Assembly Kit	H	EFA	1,059.00



Trickle Feed Sanitiser Addition & pH Monitoring & Control

New

Continually monitors and manages pH whilst at the same time trickle feeding a manually calculated and inputted quantity of liquid sanitiser. This allows the owner / operator to optimise the hourly / daily / weekly addition of sanitiser to maintain a 'safe norm@'.

Considerations:

• Liquid chemicals on domestic sites: there are various regulations affecting the sale and delivery of corrosive chemicals to domestic customers.

	Discount group	Code	Unit £
Trickle Feed Sanitiser Addition & pH Monitoring & Control	Н	TFSA	2,950.00



PA-WDPHRH Dosing System

New

Twin Channel controller with integral peristaltic pumps for pH and Redox monitoring (displayed in mV) and control. Supplied as a complete package including carboy bunds, tubing, sheathing, installation guidance, etc.

	Discount group	Code	Unit £
PA-WDPHRH Dosing System	Н	PA-WDPHRWH	3,516.00



PA-WDPHCL Dosing System

P

New

Twin Channel controller with integral peristaltic pumps for pH and free chlorine (displayed in PPM) monitoring and control. Supplied as a complete package including carboy bunds, tubing, sheathing, installation guidance, etc.

	Discount group	Code	Unit £
PA-WDPHCL Dosing System	Н	PA-WDPHCL	6,317.00



CONTROL PANELS



LD Series

The **LD Series** of controllers are suitable for almost all chemical dosing applications and feature a wide range of inputs and outputs for connection to new and existing equipment alike.

Full connectivity

Allows users to 'dial in' to the controller to access real time updates from the controller via the internet Controllers can be connected via GPRS/GSM modem or local ethernet.

Inputs

Standy; flow; pH (+) level; pH (-) level; sanitiser level; pH probe; sanitiser probe; temperature probe and power supply.

pH Priority

Controller can be set to give priority to pH dosing, i.e santiser dosing is 'paused' until pH levels are within acceptable limits.

Password Protected

Controllers are fully protected with a tiered password system. End users can be given a limited access password for calibration purposes whereas the engineers password gives full unrestricted access to the controller.

Encoder Wheel Technology

Gives easy navigation of the controller menu system.

Δlarms

Wide range of alarms available, including Probe damage, over dosing, set point, chemical tank levels and flow.



Controller Panels

	Discount group	Code	Unit £
PH + ORP based system	H	PAN.AS.001	2,702.00
PH + CL Potentiostatic based system	H	PAN.AS.002	4,326.00
PH + CL Open Amperometric Cell based system	Н	PAN.AS.003	4,733.00
PH + CL Closed Amperometric Probe based system	Н	PAN.AS.004	5,943.00

Connectivity

	Discount group	Code	Unit £
USB Connectivity Upgrade - LD Controllers Only	Н	CON.AS.001	1,506.00
LAN / CAT5e Ethernet Connectivity Upgrade LD Controllers Only	н	CON.AS.002	255.00
GSM / GPRS Modem Connectivity Upgrade LD Controllers Only - No Sim	Н	CON.AS.003	688.00

DOSING PUMPS



Exactus manual analogue model

Electronic dosing pump for wall mounting or horizontal base. Manually regulated flow rate. Regulation range: 0-100% and 0-20%. Acid resistant plastic housing.

		Discount group	Code	Unit £
Manual Analog	2 l/h - 5 bar	Н	57153	173.00
Manual Analog	2 l/h - 10 bar	Н	57154	173.00
Manual Analog	5 l/h - 7 bar	Н	57155	173.00
Manual Analog	5 l/h - 10 bar	н	57156	242.00
Manual Analog	10 l/h - 5 bar	Н	57157	242.00
Manual Analog	20 l/h - 5 bar	н	57158	278.00



Exactus manual digital model

Electronic dosing pump for wall mounting or horizontal base. Manually regulated flow rate with digital control for injection frequency. 3 digit display. Regulation range: 0-100%, with a scale of 1%. Product ready to incorporate level sensor (not included). Acid resistant plastic housing.

		Discount group	Code	Unit £
Manual Digital	2 l/h - 5 bar	Н	57159	194.00
Manual Digital	5 l/h - 7 bar	Н	57160	194.00
Manual Digital	5 l/h - 10 bar	Н	57161	255.00
Manual Digital	10 l/h - 5 bar	Н	57162	262.00
Manual Digital	20 l/h - 5 bar	Н	57163	290.00



EF Pumps (Economy Manual)

	group	Code	Unit £
EF Wall Mounted Dosing Pump 5 Lph / 5 Bar - 230VAC 1PH 50 Hz 2.2 Lph / 10 Bar - 230VAC 1PH 50 Hz	Н	PEF.AS.001	327.00
	Н	PEF.AS.002	327.00

MH Pumps (Manual)

	Discount group	Code	Unit £
MH Foot Mounted Dosing Pump			
2 Lph / 10 Bar - 230VAC 1PH 50Hz	Н	PMH.AS.002	489.00
5 Lph / 7 Bar - 230VAC 1PH 50Hz	Н	PMH.AS.003	489.00

DOSING IND CONTROL FOLIPMENT

DOSING PUMPS

MK Pumps (Manual with Level)

	Discount group	Code	Unit £
MK Foot Mounted Dosing Pump with Low Level			
18 Lph / 2 Bar - 230VAC 1PH 50Hz	Н	PMK.AS.001	717.00
10 Lph / 5 Bar - 230VAC 1PH 50Hz	Н	PMK.AS.002	717.00
5 Lph / 10 Bar - 230VAC 1PH 50Hz	Н	PMK.AS.003	717.00
2 Lph / 18 Bar - 230VAC 1PH 50Hz	Н	PMK.AS.004	717.00

MA Pumps (Manual with Level)

	Discount group	Code	Unit £
MA Foot Mounted Dosing Pump with Low Level			
20 Lph / 7 Bar - 230VAC 1PH 50Hz	Н	PMA.AS.001	1,152.00
40 Lph / 3 Bar - 230VAC 1PH 50Hz	Н	PMA.AS.002	1,218.00

PH Pumps (Pulse Proportional)

	Discount group	Code	Unit £
PH Foot Mounted Dosing Pump 2 Lph / 18 Bar - 230VAC 1PH 50Hz 2 Lph / 10 Bar - 230VAC 1PH 50Hz 5 Lph / 7 Bar - 230VAC 1PH 50Hz	н н н	PPH.AS.001 PPH.AS.002 PPH.AS.003	637.00 637.00 637.00

PA Pumps (Pulse Proportional)

	Discount group	Code	Unit £
PA Foot Mounted Dosing Pump with Low Level			
20 Lph / 7 Bar - 230VAC 1PH 50Hz	Н	PPA.AS.001	1,379.00
40 Lph / 3 Bar - 230VAC 1PH 50Hz	Н	PPA.AS.002	1,441.00



TANKS AND BUNDS

Holding Tanks

	Discount group	Code	Unit £
Cylindrical Holding Tank			
50L	Н	10800331	209.00
100L	Н	10800361	272.00
200L	Н	10800371	422.00



Bund Tanks

	Discount group	Code	Unit £
Bund to suit CNT PD50	H	10800431	209.00
Bund to suit CNT PD 110	H	10800441	272.00
Bund to suit CNT PD 200	H	10800451	422.00
30LT Rectangular Carboy Bund	H	W75U-PL	235.00

MIXERS



Manual Mixers

	Discount group	Code	Unit £
Manual Agitator - Piston Plunger			
500 mm Shaft	Н	MMA.AS.001	133.00
600 mm Shaft	Н	MMA.AS.002	138.00
700 mm Shaft	Н	MMA.AS.003	245.00
800 mm Shaft	Н	MMA.AS.004	261.00



Electric Mixers (High Speed)

Discount group	Code	Unit £
Н	MHS.AS.001	948.00
Н	MHS.AS.002	948.00
Н	MHS.AS.003	948.00
Н	MHS.AS.004	1,012.00
	group H H H	group H MHS.AS.001 H MHS.AS.002 H MHS.AS.003



Electric Mixers (Slow Speed)

	Discount group	Code	Unit £
Electric Agitator - 65 or 200 rpm			
630 mm Shaft - 230VAC 1PH 50Hz	Н	MSS.AS.001	1,327.00
730 mm Shaft - 230VAC 1PH 50Hz	Н	MSS.AS.002	1,327.00
980 mm Shaft - 230VAC 1PH 50Hz	Н	MSS.AS.003	1,392.00

OSING CONTROL IIPMENT

ACCESSORIES



Injection Valves

	group	Jour	Sinc 2
3/8" 4X6 Injection Valve Economy	н	INJ.AS.001	7.00
1/2" 4X6 Injection Valve			
Standard	Н	INJ.AS.002	39.00
PAC	Н	INJ.AS.003	38.00
Withdrawable - c/w Ball Valve	Н	INJ.AS.004	176.00
Rodable - Calcium Hypochlorite	Н	INJ.AS.005	644.00



Relief Valves

	Discount group	Code	Unit £
Multifunction Valve - Pump Mounted	Н	MFV.AS.001	166.00
Multifunction Valve - Wall Mounted	Н	MFV.AS.002	202.00



Suction Lances

Discount group	Code	Unit £
Н	RSL.AS.001	194.00
Н	RSL.AS.002	194.00
Н	RSL.AS.003	194.00
Н	RSL.AS.004	222.00
Н	RSL.AS.005	222.00
	group H H H H	group H RSL.AS.001 H RSL.AS.002 H RSL.AS.003 H RSL.AS.004

Carboy Suction Lances

Rigid Suction Lance with Level Float	Discount group	Code	Unit £
to suit Chemical Carboy	Н	CSL.AS.001	194.00

Foot Valves

Foot Strainer Valve	Discount group	Code	Unit £
4X6 with Level Float - PVDF	Н	FSV.AS.001	77.00
6X8 with Level Float - PVDF	Н	FSV.AS.002	77.00
4X6 no Level - PVDF	Н	FSV.AS.003	68.00
4X6 no Level - PP	Н	FSV.AS.004	32.00

SPARES



Buffer Solutions

group	Code	Oill L
Н	BUF.AS.001	10.00
Н	BUF.AS.002	10.00
Н	BUF.AS.003	10.00
Н	BUF.AS.004	18.00
Н	BUF.AS.005	10.00
	group H H H H	group H BUF.AS.001 H BUF.AS.002 H BUF.AS.003 H BUF.AS.004



Tubing

	Discount group	Code	Unit £
4 mm ID x 6 mm OD PE Tubing - 30 m Coil	Н	FDL.AS.001	42.00
4 mm ID x 6 mm OD PVC Tubing - 30 m Coil	Н	FDL.AS.002	26.00
6 mm ID x 8 mm OD PE Tubing - 30 m Coil	Н	FDL.AS.003	46.00
8 mm ID x 10 mm OD PVDF Tubing - 30 m Coil	Н	FDL.AS.004	406.00

^{*}PVC for suction & LDPE for delivery / discharge



Labels

group Calibration Guide pH/CL/ORP Н LAB.AS.001 8.00 Sodium Hypochlorite Bund & Injection Point Pack LAB.AS.002 15.00 Н Calcium Hypochlorite Bund & Injection Point Pack LAB.AS.003 15.00 Н Sodium Bisulphate Bund & Injection Point Pack LAB.AS.004 15.00 Н Hydochloric Acid Bund & Injection Point Pack Н LAB.AS.005 15.00 Poly Aluminium Chloride Bund & Injection Point Pack LAB.AS.006 15.00 Н LAB.AS.007 Sample Flow and Sample Return Pack 8.00



PAC Dosing Package

Poly Aluminium Chloride Dosing Package Inc. Pump, Carboy Bund and Rigid Suction Lance

Discount group	Code	Unit £
н	DOP.AS.PAC	1.321.00

Unit £

DOSING IND CONTROL

SPARES

Pump Maintenance Kits

	Discount group	Code	Unit £
EF Maintenance Kit	Н	PMK.SS.001	215.00
MH/PH Maintenance Kit	Н	PMK.SS.002	174.00
MK Maintenance Kit	Н	PMK.SS.003	224.00
MA/PA 20Lph Maintenance Kit	Н	PMK.SS.004	208.00
MA/PA 40Lph Maintenance Kit	Н	PMK.SS.005	291.00



Diaphragm

	Discount group	Code	Unit £
EF/MH/PH Diaphragm	H	DIA.AS.001	23.00
MK Diaphragm	H	DIA.AS.002	32.00
MA/PA 20Lph Diaphragm	H	DIA.AS.003	88.00
MA/PA 40Lph Diaphragm	H	DIA.AS.004	88.00

Hose Holding Kit

	Discount group	Code	Unit £
EF/MH/PH/MK Pump Hose Holding Kit	Н	HHK.AS.001	8.00
EF/MH/PH/MK Accessory Hose Holding Kit	Н	HHK.AS.002	10.00
MA/PA 20Lph Pump or Accessory Hose Holding Kit	Н	HHK.AS.003	24.00
MA/PA 40Lph Suction Hose Holding Kit	Н	HHK.AS.004	24.00
MA/PA 40Lph Discharge or Accessory Hose Holding Kit	Н	HHK.AS.005	24.00



pH Probes

	group		
pH Electrode - 15 m Cable	Н	PHE.AS.001	280.00
pH Electrode - 4.5 m Cable	Н	PHE.AS.002	229.00
pH Electrode - 0.8 m Cable	н	PHE.AS.003	218.00



ORP (Redox) Probes

	group	Couc	Sinc 2
ORP (Redox) Electrode - 15 m Cable	Н	ORE.AS.001	280.00
ORP (Redox) Electrode - 4.5 m Cable	Н	ORE.AS.002	240.00
ORP (Redox) Electrode - 0.8 m Cable	Н	ORE.AS.003	229.00

CONTROL SYSTEMS



56115 - 56116

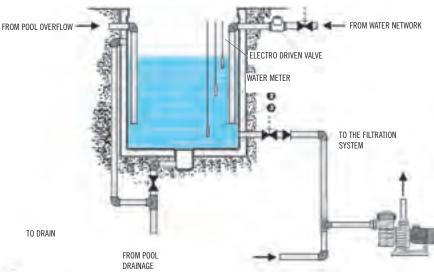
Nylon solenoid valves



Threaded connection. Manually operated ON position Flow regulator. Stainless Steel AISI-302 spring. Maximum working pressure = 10 atm. Solenoid included.

Connection	Min.	Max.	Max.	group	Code	Unit £
	pressure kg/cm²	pressure kg/cm²	flow m³/h			
1 ¹ / ₂ " 2"	1 1	10 10	30 40	Н Н	56115 56116	57.00 64.00

BALANCE TANK INSTALLING DIAGRAM



- Maximum water level signal in BALANCE TANK for starting the pumping system and electrodriven water inlet valve shut down.
- n Minimum water level signal in BALANCE TANK for opening the electrically operated valve for make up water.
- Minimum level signal in BALANCE TANK for shutting down the pumping system.

Electronic operating panel for deck level pool balance tank



For overflow pool. Water level sensor with 2 m cable.

For 2 water levels control panel:

- * Minimum safety level for pump operation: The pump stops working if water level doesn't have the minimum set level.
- * Water make up level: Gives the solenoid valve the opening signal to keep correct water level in balance tank. Solenoid valve signal in 220 V II & 24 V II.

Discount group	Code	Unit £
н	12061	848 00

3 water level control panel:

- * Minimum safety level for pump operation: The pump stops working if water level reaches the minimum set level.
- * Water make up level: Gives the solenoid water inlet valve, the opening signal to keep correct water level in balance tank. Solenoid valve signal in 220 V II & 24 V II.
- * Pump start level: The pump starts operation when water level in balance tank reaches the overflow level (pipe burst or check valve failure).

Discount group	Code	Unit £
Н	12062	1.126.00

Unit £

16.00 9.00 15.00

6.00

DOSING VD CONTROL

DOSING EQUIPMENT



Floating dispenser

The ergonomic cap makes it easy to handle the chemical products and measure out the amounts needed. It has a capacity for 5 tablets of 200 g.

Discount

Code



	group	
Shark Series	Α	36620
Basic Line	Α	38630
Basic Line with tablet consumption	Α	69668
level indicator		
For 20g tablets	Α	38629



Dossi-5 in-line and Dossi-10 in-line brominator

Bromine dispenser. Manufactured from unalterable plastic materials (ABS). With regulation valve, manual purge, Venturi automatic depression purge, and opening key. For pools up to 45 m³ with the Dossi-5 dispenser and up to 90 m³ Dossi-10 dispenser. Connections $1^{1}/_{2}$ ". Ø 200 mm.

	group	Code	Ollit E
Dossi-5 in-line. Height 486 mm.	Α	21438	228.00
Approximate capacity: 5 kg of tablets Dossi-10 in-line. Height 725 mm.	Α	21439	269.00
Approximate capacity: 10 kg of tablets			



Chlorine and Bromine Feeders Dossi-5 and Dossi-10 off-line

Bromine and Chlorine feeders. Manufactured from unalterable plastic materials (ABS). Approximate capacity: 5 kg of tablets (Dossi-5) and 10 kg of tablets (Dossi-10). Supplied with two valves in order to stop the water flow. Connections \emptyset 20 mm.

	Discount group	Code	Unit £
Dossi-5 off-line (for pools up to 100 m³) Dossi-10 off-line (for pools up to 200 m³)	A	01413	316.00
	A	43998	331.00

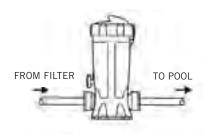


Chlorine and Bromine Feeder 3.5 kg Dossi-3

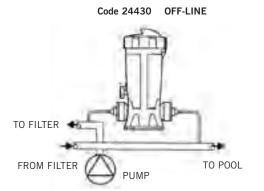
IN-LINE

Chlorine and Bromine feeder. Manufactured from unalterable plastic materials (ABS). Approximate capacity: 3.5 kg of tablets. Lid closing with double safety system. Easy to operate regulation valves. For pools up to 60 m^3 with Chlorine and up to 30 m^3 with Bromine. Height: 405 mm.

Dossi-3, in-line	group	Code	Unit £
For direct connection to pipework With $1^{1}/_{2}$ " connectors	Α	24429	170.00
Dossi-3 off-line For by-pass connection with flexible tube	Α	24430	181.00



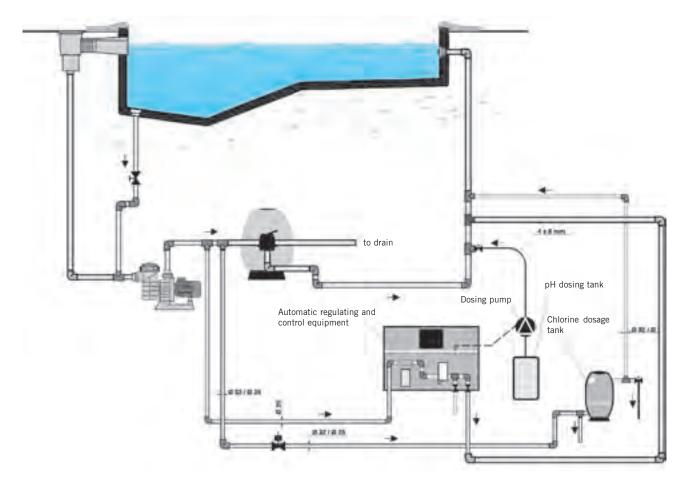
Code 24429





DOSING EQUIPMENT

INSTALLATION DIAGRAM OF CHLORINE/BROMINE DOSING UNITS AND AUTOMATIC REGULATING AND CONTROL EQUIPMENT





Compact dosage tank



Trichlor and Bromine tablet dosage unit with automatic safety valve. Made out of fibreglass and polyester.

	Discount group	Code	Unit £
Compact dosage tank 40 I Trichlor (for pools from 200 to 500 m³) Bromine (for pools from 150 to 300 m³)	Α	16631	1,357.00
Compact dosage tank 60 I Trichlor (for pools from 500 to 1000 m³) Bromine (for pools from 300 to 450 m³)	Α	16632	1,535.00

TEST KITS AND PHOTOMETERS



3-in-1 test strips

Quick and easy test for free chlorine, pH and alkalinity. Contains 50 strips.

Discount group	Code	Unit £
Н	41925	12.00



6-in-1 test strips

Quick and easy test for free chlorine, pH, alkalinity, bromine, water hardness and cyanuric acid. Contains 50

Discount group	Code	Unit £
Н	45198	11.00



3-in-1 photometer

Chlorine: 0.01-5.0 mg/lIsocyanuric acid 2-200 mg/l

pH: 6.8 - 8.4

Discount group	Code	Unit £
Н	74430	504.00



6-in-1 photometer

Chlorine range: 0.01-5.0 mg/lph range: 6.8-8.4

Isocyanuric acid 2-200 mg/l

Calcium hardness: 5-500 mg/l Bromine: 0.01–5.0 mg/l Alkalinity: 10-500 mg/l

COMMENDE
2 2
RCIAL

Discount group	Code	Unit £
н	74432	605.00

TEST KITS AND PHOTOMETERS



Pool-Control-Direct

Pool-



Multiparameter photometer that enables a wide range of tests to be performed that cover all pool water readings. Intended for pool dealers.

	Discount group	Code	Unit £	
l-Control-Direct	Н	41922	1,454.00	

Parameters tested (the reagents required can be ordered):

Alkalinity: 10 – 500 mg/l
Aluminium: 0.02–0.5 mg/l
Ammonia: 0.01–1.0 mg/l
Cyanuric acid: 2–200 mg/l
Biguanide: 2–100 mg/l
Bromine: 0.04–10.0 mg/l
Calcium hardness: 5–500 mg/l
Chloride: 10–500 mg/l
Free chlorine: 0.01–5.0 mg/l
Total chlorine: 0.01–5.0 mg/l
Total chlorine released: 0.01–10 mg/l
Total chlorine released: 0.01–10 mg/l
Chlorine range: 1–250 mg/l

Total copper 0.03–5.0 mg/l Free copper: 0.03–5.0 mg/l Total hardness: 5–500 mg/l Phosphates: 0.03–4.0 mg/l Iron: 0.01–1.0 mg/l Manganese: 0.001–0.03 mg/l Nitrates: 0.02–20 mg/l Ozone: 0.01–2.0 mg/l Hydrogen peroxide: 1–100 mg/l

pH: 6.8 - 8,4 Salt level: 0-10.000 mg/l Sulphates: 5-200 mg/l

Palintest Reagents for Photometers

	Discount group	Code	Unit £
Phenol (PH) 250 DPD 1 250 DPD 2 250 DPD 3 250	Н Н Н	41918 41919 43409 41917	7.00 7.00 11.00 7.00



POOL CLEANING EQUIPMENT

166 • Public pool cleaners

168 • Manual pool cleaners - Blue Line Range

169 • Manual pool cleaners - Shark Range

170 • Handles

171 • Suction hoses





PUBLIC POOL CLEANERS

Sensor _System_

Aquatina









- anti-tangle compass system without the need of swivel

- Designed for a professional use in public swimming pools for

TRX 7500 iQ **VORTRAX**



New



Cleaning areas Floor / walls / waterline



Pool Size

Small to medium public pools (hotels, campsites, apartments) with rigid walls, up to 20m length



Cleaning cycles

Multiple from 0h30 to 6h00 with preset cycles:

- -Quick: floor only 1h15
- -Smart: floor / walls / waterline (calculated time)
- -Ultra: floor / walls / waterline (2h45)



Cable 25m



Dual-Stage filter 150 + 6 0μ (with possibility to use 150µ alone)













SPECIFICALLY DESIGNED FOR INTENSIVE USE IN PUBLIC POOLS TOUGH, SMART AND **ULTRA-EFFICIENT**

- Ultrasonic sensors to detect walls and obstacles
- SensorNavSytemTM:intelligenta ndpersonalisedcleaningwith anti-tangle compass system without
- New Heavy-duty materials and traction system for intensive use
- in public swimming pools for hotels, campsites and sports

TRX 7700 iQ





Cleaning areas Floor / walls / waterline



Public pools (hotels, campsites, sports centers) with rigid walls, up to 25m length



Cleaning cycles

Multiple from 0h30 to 6h00 with preset cycles:

- -Quick: floor only 1h15
- -Smart: floor / walls / waterline (calculated time)
- -Ultra: floor / walls / waterline (2h45)



Cable 30m



Stainless Steel Canister 150µ Ultra-Fine Filter canister 60µ

		Discount group	Code	Unit £
TRX 7500 iQ	New	W	WR000413	1,492.00
TRX 7700 iQ		W	WR000414	1,936.00
Fine filter canister 100µ		W	R0863600	36.00
Fine filter canister 200µ		W	R0863700	35.00





PUBLIC POOL CLEANERS











- and obstacles
 Gyroscope and compass smart
- Heavy-duty traction system with tracks for intensive use
- Ultra-powerful suction Remote control for manual use
- centers, institutional pools, hotels and campsites





Cleaning areas Floor and walls



Pool Size

Medium public pools (sports centers, institutional pools, hotels) with rigid walls, up to 30 m length

New

New



Cleaning cycles

Multiple with preset cycles

- -Floor Mode: floor
- -Wall and floor mode: floor walls and waterline/
- -Delayed start: the 2 cleaning modes will start with 3 hours delayed



Cable 30m











DESIGNED FOR A HEAVY-DUTY AND INTENSIVE USE IN MEDIUM AND BIG PUBLIC POOLS

- Infrared sensor to detect walls and obstacles
- Gyroscope and compass smart navigation system

- in medium and big public swim-ming pools for swimming centers, institutional pools, sports centers and campsites

ARCOMAX





Cleaning areas Floor and walls



Pool Size

Medium and big public pools (swim and sports centers, institutional pools) with rigid walls, up to 50 m length



Cleaning cycles

Multiple with preset cycles

- -Floor Mode: floor
- -Wall and floor mode: floor walls and waterline/
- -Delayed start: the 2 cleaning modes will start with 3 hours delayed



ARCO

ARCOMAX

Cable 40m



Discount group	Code	Unit £
W	WR000396	3,190.00
W	WR000397	6.059.00



POOL CLEANING EQUIPMENT





Blue Line manual suction cleaner - wing-nut fastening

1 ½" 350 flexible pool cleaner 1 ½" 350 aluminium pool cleaner Triangular pool cleaner Oval pool cleaner

Discount group	Code	Unit £
A A A	69661 69673 69663 69664	38.00 46.00 29.00 28.00









69658



69669

Blue Line wall brush - wing-nut fastening

Adjustable handle wall brush (48 cm) Fixed handle wall brush (50 cm) Multifunction manual brush

Discount group	Code	Unit £
Α	69656	27.00
Α	69658	21.00
Α	69669	12.00





Blue Line leaf skimmer - wing-nut fastening

Plastic flat leaf skimmer Plastic net leaf skimmer fixed handle Aluminium net leaf skimmer

Discount group	Code	Unit £
Α	69665	19.00
A A	69666 69667	21.00 20.00





69659 - 69660

Blue Line handles - wing-nut fastening

1.8-3.6 m easy regulation aluminium handle 2.4-4.8 m easy regulation aluminium handle

Discount group	Code	Unit £
A	69659	39.00
A	69660	49.00



Blue Line cleaning material wall bracket

Cleaning material wall bracket

Discount group	Code	Unit £
Α	69662	27.00



Blue Line floating dispenser

	Discount group	Code	Unit £
pating dispenser for 200g tablets	Α	69668	15.00

Flo

POOL CLEANING EQUIPMENT

Code

Unit £



HANDLES

Shark pool cleaner - wing-nut or wishbone fixing



Discount



Shark brushes - wing-nut or wishbone fixing

	Discount group	Code	Unit £
Shark special bottom curved brush	Α	36615	21.00
Shark bottom/walls curved brush	Α	36616	18.00
Shark corner suction brush	Α	36617	17.00

Shark leaf skimmers - wing-nut or wishbone fixing

	Discount group	Code	Unit £
Shark water surface leaf skimmer	A	36613	19.00
Shark deep water leaf skimmer	A	36614	26.00



36614

Shark telescopic pole - wing-nut or wishbone fixing

	Discount group	Code	Unit £
Shark 1.8 - 3.6 m telescopic pole	A	38422	97.00
Shark 2.4 - 4.8 m telescopic pole	A	38423	114.00



Shark floating dispenser for 5 tablets

Floating dispenser for 5 tablets	Discount group	Code	Unit £
200 g Shark	Α	36620	16.00



Shark submergible analogue thermometer

	Discount group	Code	Unit £
Shark submergible analogue thermometer	Α	36622	66.00

SUCTION HOSES



Shark telescopic pole - wing-nut or wishbone fixing

	Discount group	Code	Unit £
Classic 1.8 - 3.6 m telescopic pole	A	01359	104.00
Classic 2.4 - 4.8 m telescopic pole	A	01360	125.00



Classic reinforced telescopic pole - Public pools

Reinforced telescopic pole, aluminium
2.5 - 5 m
3.75 - 7.5 m
5 - 10 m
6.5 - 13 m

Discount group	Code	Unit £
A A A	01361 15838 01362 01363	201.00 300.00 438.00 511.00



Hose adapter

For connecting wing nut assembly to clip hose or clip assembly to wing nut hose.

Adapts the wishbone handle	Discount group	Code	Unit £
connection to wing-nut connection	Α	08465	30.00
Adapts the reinforced pole connection to wing-nut connection	Α	17937	55.00



Hose adapter

For connecting wing nut assembly to clip hose or clip assembly to wing nut hose.

Adapts the connection hose	
clip to wing nuts	

Discount group	Code	Unit £
Α	14592	26.00



Thermometers

Celsius & Fahrenheit scale.

Discount group	Code	Unit £
Α	20594	17.00



Floating thermometers ZOO

Celsius & Fahrenheit scale.

Basic line. Desktop display. This includes: 6 models of each one: duck, dolphin, frog and whale

Discount group	Code	Unit £
Α	66058	189.00



SUCTION HOSES



Hose connectors



Unit £

Ø 38 mm for connections to inlets 16328,
16329, 16330, in white ABS
Ø 50 mm connections to inlets 00315,
grey PP

group		
Α	05684	7.00
Α	01392	5.00

Code



Hose fitting

White ABS plastic.	Discount group	Code	Unit £
For \emptyset 38 mm hose male thread $1^{1}/_{2}$ "	Δ	01393	5.00

Discount



Hose cuffs



Made in blue PVC	group	Code	UNIT £
For Ø 38 mm (01372) hose Only for vac inlets 24415	Α	07958	5.00
For Ø 38 mm hose (01372)	A	01385	5.00
For Ø 50 mm hose (01373) Made in flexible white PVC	Α	01386	16.00
For Ø 38 mm hose (01374-01375		01207	4.00
01376-01377-01378) For Ø 50 mm hose (01379)	A A	01387 01388	4.00 12.00



Floating suction hose



Transparent blue Polyethylene hose.	Discount group	Code	Unit £
Ø 38 mm ($1^{1}/_{2}$ ") 30 metre roll	Α	01372	298.00
Ø 50 mm (2") 30 metre roll	Α	01373	447.00



Floating suction hose boxed



Blue plastic. Includes connecting cuffs., except in the 30 m hose (01374, 01379).

Ø 38 mm (1 ¹ / ₂ ")	Discount group	Code	Unit £
30 m	Α	01374	152.00
15 m	Α	01375	81.00
12 m	Α	01376	65.00
10 m	Α	01377	55.00
8 m	Α	01378	48.00
Ø 50 mm (2") 30 m	А	01379	264.00



Hose roller

For hoses of up to 15 metres.	
l	
Hose roller	

Discount group	Code	Unit £
Α	66042	93.00



POOL LIGHTING AND SOUND

- 174 LED lighting LumiPlus
- 181 LED lighting Niches
- 186 LED lighting Control systems
- 188 Transformers and accessories
- 189 Aquarmony underwater music system





LED LIGHTING - LUMIPLUS



AstralPool LumiPlus is the most extensive family in the market of underwater spotlights for public, commercial and residential pools.

The entire **LumiPlus** range is made of high-quality LEDs and electronic components, and is manufactured entirely in the EU to European quality standards.

The AstralPool LumiPlus family delivers:

- Greater energy efficiency.
- High performance projectors with top quality lighting (TQL) technology.
- Enhanced energy efficiency in pools thanks to the use of LumiPlus DC lamps and projectors run from a direct current power source (24 V DC).
- Great control over the range with the inclusion of the Internet of Pools (IoP) concept by Fluidra Connect.
- IP68 protection rating.
- L70 50000 hours lifespan.

The most comprehensive range for every type of pool



PROJECTOR

LumiPlus Flexi

The LED solution that adapts to every type of pool



The family of LumiPlus Flexi spotlights - FlexiNiche, FlexiSlim and FlexiRapid – is characterized by its great adaptability to any type of new-build or existing pool, whether a liner or concrete pool, that can be fitted to niches, on the surface or in bushings. The LumiPlus Flexi system delivers top flexibility.

Versions V1 and V2 are ideal for residential pools and public/hotel pools, respectively.

LumiPlus Flexi is the perfect solution for your pool that lets you choose:

- 1. The color of the light.
- 2. The mounting system.

3. The faceplate color that best matches your pool, between white, beige, Light grey, anthracite grey and stainless steel, this one only for the FlexiNiche version.

The FlexiNiche version with his unique system of screws can adapt to any niche from diameter 180 up to 230 mm.

FlexiSlim version is compatible with the brackets for Flat, Extraflat and Slim Projectors by AstralPool.

FlexiRapid is compatible with any bushing with 1"1/2 internal thread.

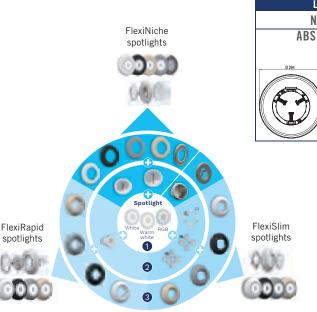
Dimensions

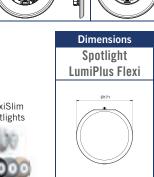




LumiPlus FlexiRapid

Inlets





LumiPlus FlexiNiche

Niche Ø 180-230 mm

Full stainless	s steel					
0310	77.A 25	0 290	51		0.267	48
nensions		ا	How to install	them		
otlight						
Plus Flexi	Lun	niPlus	LumiPlu	s	LumiP	lus

LumiPlus FlexiSlim

Walls

FlexiNiche

FlexiSlim

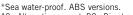


FlexiRapid

LumiPlus FlexiSlim

LumiPlus FlexiRapid

		Point of light	features		
	Color of lamp	Watts	Color temperature	Control system	Efficiency
	White AC	14.5 W (20VA)	5 700K	ON / OFF	E
	Warm White AC	14.5 W (20VA)	3 000K	ON / OFF	E
Residential V1 WHITE: 1485 lm/	White DC	14 W	5 700K	ON / OFF	E
RGB : 1100 lm	Warm White DC	14 W	3 000K	ON / OFF	E
AC - 12V AC / DC -	White DC high efficiency	8.7 W	5 700K	ON / OFF	В
24V DC	RGB AC	22 W (29 VA)	-	LumiPlus ECO / LumiPlus Top / Fluidra Connect / WIFI LED App	G
	RGB WIR AC	22 W (29 VA)	-	Wireless Control Motion	G
	White AC	32W (42VA)	5 700K	ON / OFF	D
Public/Hotel V2	Warm White AC	32W (42VA)	3 000K	ON / OFF	D
WHITE: 4320 lm/	White DC	32 W	5 700K	ON / OFF	D
RGB : 2544 lm AC - 12V AC / DC -	Warm White DC	32 W	3 000K	ON / OFF	D
24V DC	RGB AC	43W (54VA)	-	LumiPlus ECO / LumiPlus Top / Fluidra Connect / WIFI LED App	G
	DMX RGB AC	43W (54VA)	-	LumiPlus RGB DMX	G





LED LIGHTING - LUMIPLUS

LumiPlus Flexi projectors - Components required to install a LumiPlus Flexi









Choose amongst the components according to your requirements: Step 1 - Select lamp type

Step 2 - Select type of fixing (not required for flexi slim/retro fit lights)

Step 3 - Choose faceplate in white or colour for type of fixing

Step 4 - RGB and DMX choose controllers page 186-187

- New-build pools - FlexiSlim: 1+3

- Replacement without changing niche: 1+3



The 3 components are required for the proper installation of FlexiNiche and FlexiRapid.

1 Spotlight		Code	Unit £	Discount group	Code	Unit £	Discount group
		V1 V2		V2			
	White AC LumiPlus Flexi spotlight	71200	222.00	Α	71233	395.00	Α
A A	Warm White AC LumiPlus Flexi spotlight	71200WW	222.00	Α	71233WW	395.00	Α
ED)(D)	White DC LumiPlus Flexi spotlight	71201	247.00	Α	71202	420.00	Α
	White DC LumiPlus Flexi spotlight High Efficiency	71236	333.00	Α			
	Warm White DC LumiPlus Flexi spotlight	71201WW	247.00	Α	71202WW	420.00	Α
	RGB AC LumiPlus Flexi spotlight ⁽¹⁾	71203	275.00	Α	71204	469.00	Α
PON	Wireless AC LumiPlus Flexi spotlight (2)	71205	356.00	Α			
0.000	Wireless AC 1 PL LumiPlus Flexi spotlight + 1 Control Motion (2)	71206	523.00	Α			
(9)	Wireless AC 2 PL LumiPlus Flexi spotlight + 1 Control Motion (2)	71207	878.00	Α			
	RGB DMX AC LumiPlus Flexi spotlight (1)				71208	715.00	Α

All spotlights come with a 2.5 m power cable. Power cables of 5 m, 10 m and 15 m available on request. (1) Choose the most suitable control system (see control systems section).

(2) Compatible with ABS trim solutions.

2 Installation	1	Code	Unit £	Discount group	Code	Unit £	Discount group
All Inc.	Niches (*)	Ni	che Ø180)	Ni	che Ø230)
GEO (1992)	Niche in ABS for concrete pools	59813	38.00	Α	00349	29.00	Α
	Niche S.S. for concrete pools /prefabricated pools				54102	238.00	Α
6140	Niche in ABS for prefabricated pools with inserts	59814	82.00	Α	00364	75.00	Α
109	Niche in ABS for panel pools with inserts / without inserts				23671	84.00	Α
	Inlet						
11000	Inlet for concrete pools with 1 1/2" threaded Ø63 PN-6 piping		35418	8.00	Α		
Inlet for concrete pools with 1 1/2" threaded Ø63 PN-10 piping		35421	8.00	Α			
-	Inlet for liner prefabricated pools with 1 1/2" thread				27084	24.00	Α
	Inlet for polyester prefabricated pools				38805	12.00	Α

Other Ø230 and Ø180 niches also available (see catalogue). For FlexiSlim version installed in concrete + liner pools, Kit 71234 should be used to complete installation (not delivered with). * Suitable to use ABS niches with Flexi ABS decorative ring.

3 Decorative ring with fitting		Code	Unit £	Discount group
	FLEXINICHE			
	White	71209	93.00	Α
	Beige	71209CL090	100.00	Α
The state of the s	Light Grey	71209CL129	100.00	Α
	Anthracite grey	71209CL144	100.00	Α
	Stainless steel AISI 316-L embellisher with ABS body	71209CLSS	175.00	Α
	Full Stainless Steel AISI 316-L	73440	388.00	Α
444	FLEXISLIM			
	White	71210	86.00	Α
III. OF THE REST.	Beige	71210CL090	92.00	Α
	Light Grey	71210CL129	92.00	Α
	Anthracite grey	71210CL144	92.00	Α
	FLEXIRAPID			
0000	White	71211	47.00	Α
	Beige	71211CL090	51.00	Α
	Light Grey	71211CL129	51.00	Α
	Anthracite grey	71211CL144	51.00	Α



trends for residential pools. It combines perfectly with LumiPlus Flexi range.

installation methods.

Thanks to its simplified connection compatibility with each construction mode, LumiPlus FlexiMini enables easy installation and retrofit with most of the lightings on the market.

the desired lumens (2 levels for stairs and basin), with any connection mode (nozzles, tube, well conduits, niche) and 5 color options to create a unique lighting experience for the pool owner.





The LumiPlus Flexi Mini projector is an underwater projector with reduced dimensions that stands out for its ease and flexibility of installation, being compatible with the Mini V2 and V3 niches, $\boldsymbol{1}$ "1/2 internal thread nozzles, 63mm or 2" cable glands, pipes D63 PN6 and PN10 or D50 PN10 pipes. Its configuration is carried out in three steps in new pools. You need to choose:

- 1.- The spotlight
- 2.- One of the 4 models of decorative ring: niche; nozzle L; nozzle S; or, for pipe or wall bushings.

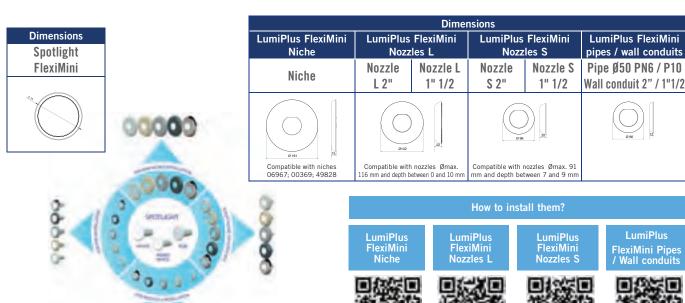
The decorative ring can be made of ABS in a white, light gray, anthracite gray or beige finish; or AISI- 316L stainless steel.

3.- The niche, the nozzle or the wall bushing for the installation.

When renovating swimming pools, you should only choose sections 1 and 2.

The point of light is available in two powers, V1 for lighting stairs and V2 for lighting the basin, and you can choose between white, warm white and RGB multicolor light. The RGB versions are compatible with ECO, TOP, Wireless, LumiPlus LED App, ModBUS (Connect) and DMX controls (see page 186).





Point of light features						
	Color of lamp	Watts	Color temperature	Control system	Efficiency	
	White AC	3.5 W	5 700K	ON / OFF	D	
	White DC	3 W	5 700K	ON / OFF	C	
Pool stairs FlexiMini V1	Warm White AC	3.5 W	3 000K	ON / OFF	D F	
WHITE: 450 lm/ RGB	Warm White DC	3 W	3 000K	ON / OFF	C	
: 300 lm AC - 12V AC / DC -	RGB	3.8 W	-	LumiPlus ECO / LumiPlus Top / Fluidra Connect / WIFI LED App	Œ	
24V DC	RGB Wireless (WIR)	4.3 W	-	1) Wireless Control Motion	G	
	White AC	7.2 W	5 700K	ON / OFF	D	
	White DC	6.8 W	5 700K	ON / OFF	D	
Residential pool basin	Warm White AC	7.2 W	3 000K	ON / OFF	D	
and stairs FlexiMini V2	Warm White DC	6.8 W	3 000K	ON / OFF	D	
WHITE: 900 lm/ RGB	RGB	7.6 W	-	LumiPlus ECO / LumiPlus Top / Fluidra Connect / WIFI LED App	Œ	
: 600 lm AC - 12V AC / DC -	RGB Wireless (WIR)	8 W	-	1) Wireless Control Motion	F	
24V DC	Kit 3 RGB Wireless V2 (with RC)	8 W	-	1) Wireless Control Motion	F	
	DMX	8 W	-	LumiPlus RGB DMX	F	

*Sea water-proof. ABS versions.

AC - Alternating current. DC - Direct current. DC versions are delivered with power pack.

1) Maximum installation depth 40cm.



POOL LIGHTING AND SOUND

LED LIGHTING - LUMIPLUS

LumiPlus FlexiMini - Components to install a LumiPlus FlexiMini projector











The LumiPlus Flexi Mini is a solution that allows maximum flexibility in terms of colors of the lights, lumens color of the visible parts and as well of the instalaltion method.

LumiPlus FlexiMini is a compact LED solution in line with current design trends for residential pools. It combines perfectly with LumiPlus Flexi range.

Choose amongst the components according to your requirements:

1 Spotlight		Code	Unit £	Discount group
	1.1 - LUMIPLUS FLEXIMINI V1 - IDEAL FOR STAIRS			
	White AC	74400	238.00	Α
The second second second second	White DC	74401	283.00	Α
AND THE RESERVE AND THE RESERV	Warm White AC	74400WW	238.00	Α
	Warm White DC	74401WW	283.00	Α
	RGB	74402	245.00	Α
	RGB Wireless (WIR)	74403	305.00	Α
	1.2 - LUMIPLUS FLEXIMINI V2 - IDEAL FOR RESIDENTIAL POO)L		
	White AC	74406	239.00	Α
	White DC	74407	284.00	Α
The second secon	Warm White AC	74406WW	239.00	Α
and the same of th	Warm White DC	74407WW	285.00	Α
	RGB	74408	254.00	Α
	RGB Wireless (WIR)	74404	319.00	Α
	Kit 3 RGB Wireless V2 + 1 Control Motion	74405	1,168.00	Α
	DMX	74409	328.00	Α

Note-	2.5	m	cable	included

2 LumiPlus FlexiMini Decorati	ve ring with fitting (Delivered with installation accessories)	Code	Unit £	Discount group
	2.1 - DECORATIVE RING FOR MINI NICHES			
	Decorative ring for Mini Niche in ABS color White	74392	29.00	Α
	Decorative ring for Mini Niche in ABS color Beige	74392CL090	32.00	Α
	Decorative ring for Mini Niche in ABS color Light grey	74392CL129	32.00	Α
	Decorative ring for Mini Niche in ABS color Anthracite	74392CL144	32.00	Α
	Decorative ring for Mini Niche in Stainless Steel A316-L with ABS body	74392CLSS	83.00	Α
	2.2 - DECORATIVE RING FOR NOZZLES L (LARGE)			
	Decorative ring for nozzle L in ABS color White	74393	27.00	Α
00000	Decorative ring for nozzle L in ABS color Beige	74393CL090	30.00	Α
	Decorative ring for nozzle L in ABS color Light grey	74393CL129	30.00	Α
	Decorative ring for nozzle L in ABS color Anthracite	74393CL144	30.00	Α
	Decorative ring for nozzle L in Stainless Steel A316-L with ABS body	74393CLSS	83.00	Α
	2.3 - DECORATIVE RING FOR NOZZLES S (SMALL)			
	Decorative ring for nozzle S in ABS color White	74394	24.00	Α
	Decorative ring for nozzle S in ABS color Beige	74394CL090	25.00	Α
00000	Decorative ring for nozzle S in ABS color Light grey	74394CL129	25.00	Α
	Decorative ring for nozzle S in ABS color Anthracite	74394CL144	25.00	Α
	Decorative ring for nozzle S in Stainless Steel A316-L with ABS body	74394CLSS	73.00	Α
	2.4 - DECORATIVE RING FOR PIPE			
	Decorative ring for pipe in ABS color White	74395	40.00	Α
	Decorative ring for pipe in ABS color Beige	74395CL090	43.00	Α
	Decorative ring for pipe in ABS color Light grey	74395CL129	43.00	Α
	Decorative ring for pipe in ABS color Anthracite	74395CL144	43.00	Α
	Decorative ring for pipe in Stainless Steel A316-L with ABS body	74395CLSS	89.00	Α

Type of pool	Option	2.1 Faceplate for niches	2.2 - Faceplate for nozzles L	2.3 - Faceplate for nozzles S	2.4 - Faceplate for Pipe
	Recommended	06967	56498	35418	15661
Concrete	Other possibilities	-	00295, 00298, 56498, 00300, 00301	53956, 35421	00322, 00323
Concrete +	Recommended	00369	59983	00338	-
liner	Other possibilities	-	00332, 17382	27084	-
	Recommended	00369	00330	27084	-
Panels	Other possibilities	-	17383, 00332, 56498, 56499	06481, 32450, 33092, 33091, 06498	-
	Recommended	49828	00330	74179	-
Polyester	Other possibilities	-	00332, 00334, 00336	38805, 06481, 06484, 32450, 32451	-

Please see niches on page 181.



LED LIGHTING - NICHES



Standard niches						
Concrete	Prefabrica	cated pools Panels pool		s pool		
pool	With inserts	Without inserts	With inserts	Without inserts		
00349 📚	00364	28887	23671	23670		
	17805	72261	230/1	23070		

Compatible with: LumiPlus FlexiNiche, LumiPlus PAR56 series, Standard and Global halogen lights and PAR56 Aquasphere projectors



AISI-36 stainless steel niches				
Concrete pools Liner swimming pool				
54102	54103			

Compatible with: LumiPlus FlexiNiche in Stainless Steel, LumiPlus stainless PAR56 steel range and stainless steel incandescent projectors.



MINI niches				
Concrete pool	Prefabricated pools	Panel pools		
06967 💿	00369	49828		

Compatible with: LumiPlus Mini 2.11 series and Mini halogen lights for niche.



Fast assembly MINI niches				
Concrete pools	Prefabricated pools			
53956 😂	59983			

53956: Compatible with the LumiPlus Mini 2.11, LumiPlus Mini 3.13, LumiPlus Rapid and Mini halogen snap-in ranges.
59983: Compatible with the LumiPlus Mini 3.13 and LumiPlus Rapid ranges.



Niches for Standard Lights

	Discount group	Code	Unit £
Concrete Niche	Α	00349	29.00
Niche for Prefabricated pools	Α	00364	75.00
Niche for panel pools	Α	23671	84.00



Stainless steel light niche

	group	Code	Unit £
Stainless light niche concrete	A	54102	238.00
Stainless light niche liner	A	54103	428.00



Niche for mini light

	Discount group	Code	Unit £
Concrete niche for mini light	A	06967	80.00
Prefabricated niche for mini light	A	00369	85.00
Panel niche for mini light	A	49828	87.00



Niche for Mini Rapid and Rapid

	Discount group	Code	Unit £
1 ½" threaded inlet 63mm, PN 6	Α	35418	8.00
1 ½" threaded inlet 63mm, PN 10	Α	35421	8.00
Concrete niche	Α	53956	62.00
Prefabricated niche	Α	59983	82.00
Prefabricated pools 1 ½" threaded inlet	Α	27084	24.00
Fibreglass inlet	Α	38805	12.00





LumiPlus MINI V3 projectors



The LumiPlus Mini V3 projector is a compact underwater projector made entirely of high-quality plastic. Available in white, warm white, and multi-color RGB light.

The RGB versions are compatible with ECO, TOP, LumiPlus LED App, ModBUS (Connect) and DMX controls (see page 186).

You can choose between two types of decorative ring: pure white and stainless steel effect.

There are three versions of this projector: concrete pool, prefabricated pool and SPA.

LumiPlus monocolor white light lamps and projectors are also available in Warm White.

TECHNICAL	FEATU	RES											
					MI	NI V3 proje	ctor						
	Light Colour Decorative ring Concrete Unit £ Prefabricated/ Liner Unit £ SPAS Unit £								Consumption	Luminous flux	Discount group		
	\\/\b:\-	r t	White	59979	229.00	69637	297.00	59981	228.00	4)A/ (C)/A)	215 1		
	White	d	Stainless steel effect	59980	266.00	69638	334.00	59982	265.00	4W (6VA)	315 lm	A	
0	RGB	G É	White	59971	264.00	69633	332.00	59973	253.00	4)4/ (7)/4)	186 lm	A	
-0	NN thing	0 8	Stainless steel effect	59972	291.00	69634	358.00	59974	290.00	4W (7VA)	100 1111	A	
	RGB DMX			White	59975	282.00	69635	350.00	59977	281.00	4W (4VA)	186 lm	А
					o g	Stainless steel effect	59976	321.00	69636	388.00	59978	320.00	4VV (4VA)

Rated Voltage: 12V AC (RGB & White) 24V DC (RGB-DMX). IPX8 protection. 2.5 m H07RN-F 2 x 1 mm² cable. It must always be installed underwater.



Niches, nozzles and fittings for LumiPlus MINI V3

TECHNICAL FEA	TURES						
			Niches for Lun	niPlus MINI V3			
		Concre	te pools		I	Prefabricated pools	3
		Concre	te pools		Liı	Fibreglass	
Description	Bushing / Tube ø63 PN-6 / PN-10	1"1/2 threaded inlet Ø 63 PN-6 piping	1"1/2 threaded inlet Ø 63 PN-10 piping	Nozzle with niche	1 1/2" thread inlet	Nozzle with niche	Inlet
Code	62395	35418	35421	53956	27084	59983	38805
Unit £	10.00	8.00	8.00	62.00	24.00	82.00	12.00
Discount group	Α	Α	Α	Α	Α	Α	А
		4(9)	49	0		0	0

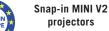












LumiPlus MINI V2 projectors



To correctly light a pool it is advisable to install a projector from the LumiPlus Mini V2 range every 5 m² of water surface. NB: recommendations valid for light coloured pools and white light projectors; oversize in RGB colours. In darker coloured pools or stainless steel pools, we recommend oversizing the proportion of projectors

Projectors may be installed both in and out of the water. Niche according to model; not included and needed to finish the installation. The RGB model is compatible with LumiPlus ECO, LumiPlus Top, LumiPlus LED APP and LumiPlus Modbus controls. The RGB DMX model requires the LumiPlus DMX 52142 controller (see page

LumiPlus monocolor white light lamps and projectors are also available in Warm White.

TECHNICAL FEATU	TECHNICAL FEATURES											
				Snap-in MIN	I V2 projector							
	Light Co	dour		Type of dec	orative ring		Consumption	Luminous flux	Discount			
	Ligiti CC	noui	White	Unit £	S.S.	Unit £	Consumption	Lullillous Ilux	group			
40	White	F	52130	335.00	52131	353.00	4W (6VA)	315 lm	Α			
-(2)	RGB NN thing	G	52124	342.00	52125	361.00	4W (7VA)	186 lm	Α			
	RGB DMX	G å	52136	349.00	52137	368.00	4W (4VA)	186 lm	Α			

Rated Voltage: 12V AC (RGB & White) 24V DC (RGB-DMX). IPX8 protection. Includes 2.5 m H07RN-F 2x1.5 mm2 cable. Compatible with a Ø63 bushing (code 15661) or snap-in mini niche from concrete pool code 53956 (not included).

	MINI V2 projector for SPA										
	Liaht Ca	alour.		Type of dec	orative ring		Consumption	Luminous flux	Discount		
	Light Colour		White	Unit £	S.S.	Unit £	Consumption	Lullillous Ilux	group		
40	White	F å	52132	344.00	52133	362.00	4W (6VA)	315 lm	Α		
-0	RGB NN thing	G	52126	352.00	52127	371.00	4W (7VA)	186 lm	Α		
	RGB DMX	G			52139	378.00	4W (4VA)	186 lm	Α		

Rated Voltage: 12V AC (RGB & White) 24V DC (RGB-DMX). IPX8 protection. Includes 2.5 m H07RN-F 2x1.5 mm² cable. Fastened between a threaded bolt and 2" nut.

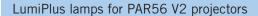
			MINI V2 p	rojector for	Mini Niche (light point)			
	Light Colour			Type of dec	orative ring		Consumption	Luminous flux	Discount
			White	Unit £	S.S.	Unit £	Consumption	Edillilous IIux	group
-1	White	F å	52134	307.00	52135	330.00	4W (6VA)	315 lm	Α
1	RGB NN thing	G	52128	308.00	52129	332.00	4W (7VA)	186 lm	Α
	RGB DMX	G	52140	314.00	52141	339.00	4W (4VA)	186 lm	Α

Rated Voltage: 12V AC (RGB & White) 24V DC (RGB-DMX). IPX8 protection. Includes 2.5 m H07RN-F 2x1.5 mm² cable. To complete the projector select the right niche for each swimming pool type (see page 181).

		Color front plate	s for MIN	II V2 projectors				
Beige Unit £ Light grey Unit £ Anthracite Unit £								
000	Color front plate for Snap-in MINI V2 projector and MINI V2 projector for SPA and prefabricated pool	08554-0500CL090	11.00	08554-0500CL129	11.00	08554-0500CL144	11.00	Α
600	Color front plate for MINI V2 projector for Mini Niche (light point)	04582-0500CL090	17.00	04582-0500CL129	17.00	04582-0500CL144	17.00	Α









The RGB model is compatible with LumiPlus ECO, LumiPlus Top, LumiPlus LED APP and LumiPlus Modbus controls. The RGB DMX model requires the LumiPlus DMX 41107 modulator.

To correctly light a pool it is advisable to install a light from the LumiPlus V1 range every 20 m² of water surface. This recommendation applies to pools light in colour with white light spotlights, but if there are RGB spotlights more should be fitted. In dark or stainless steel pools it is recommended to use more projectors per m².









	TECHNICAL	FEATURES						
DC PAR56 V2 lamp								
		Light Co	olour	Code	Consumption	Luminous flux	Unit £	Disc. group
	0	White	0.6	67516 📚	2014	4200	532.00	Α
	Lo	Warm white	Į,	67516WW 💍	32W	4320 lm	532.00	Α

Rated voltage: 24 V DC. Protection rating: IPX8. Includes 220V AC - 24 V DC power pack.

Does not work with 220 V AC-12 V AC electromagnetic transformers. It must always be installed underwater.

			PAR56	V2 lamp			
	Light Co	olour	Code	Consumption	Luminous flux	Unit £	Disc. group
6	RGB NN thing	G f	43411 💿	48W (64VA)	2544 lm	652.00	Α
W.	RGB DMX	6	45637 📚			728.00	Α

Rated voltage: 24 V DC. Protection rating: IPX8. It must always be installed underwater.





LumiPlus lamps for PAR56 V1 projectors



EThe RGB model is compatible with LumiPlus ECO, LumiPlus Top, LumiPlus LED APP and LumiPlus Modbus controls. The RGB DMX model requires the LumiPlus DMX 41107 modulator.

To correctly light a pool it is advisable to install a light from the LumiPlus V1 range every 20 m² of water surface. This recommendation applies to pools light in colour with white light spotlights, but if there are RGB spotlights more should be fitted. In dark or stainless steel pools it is recommended to use more projectors per m2.















TECHNICAL	TECHNICAL FEATURES										
	DC PAR56 V1 lamp										
	Light Co	lour	Code	Consumption	Luminous flux	Unit £	Disc. group				
0	White	4	67515 14		1495 lm	266.00	Α				
Ch.	Warm white	- 6	67515WW 🍮	14	1485 lm	266.00	Α				

Rated voltage: 24V DC. Protection rating: IPX8. Includes 220V AC - 24 V DC power pack. Does not work with 220 V AC-12 V AC electromagnetic transformers. It must always be installed underwater.

	PAR56 V1 lamp										
	Light Co	lour	Code	Consumption	Luminous flux	Unit £	Disc. group				
-	White	- 4	52596 💍	14,5W	1485 lm	288.00	Α				
0	Warm white	E 10	52596WW 🍮	(20VA)	1485 IIII	326.00	Α				
	RGB NN thing	G	56001 💍	22W (29VA)	1100 lm	407.00	Α				

Rated Voltage: 12V AC. Protection: IPX8. It must always be installed underwater.

	Wireless PAR56 V1 lamp										
		1 lamp + 1 Control Motion	Unit £	2 lamps + 1 Control Motion	Unit £	1 lamp RGB 1.11 Wireless	Unit £	Consumption per lamp	Luminous flux per lamp	Discount group	
0	e :	59126 🥘	552.00	59127 📚	928.00	59124 🥘	432.00	22W (29VA)	1100 lm	Α	





LumiPlus MICRO projectors



To correctly light a pool it is advisable to install a projector from the LumiPlus Micro range every 5 m² of water surface. NB: recommendations valid for light coloured pools and white light projectors; oversize in RGB colours. In darker coloured pools or stainless steel pools, we recommend oversizing the proportion of projectors per m².

LumiPlus monocolor white light lamps and projectors are also available in Warm White. Projectors may be installed both in and out of the water. Niche according to model; not included and needed to finish the installation. The RGB model is compatible with LumiPlus ECO, LumiPlus Top, LumiPlus LED APP and LumiPlus Modbus controls. The RGB DMX model requires the LumiPlus DMX 52142 feed controller (see page 186).

TECHNICAL FEATURES									
Snap-in MICRO projector									
	Light C	olour		Type of dec	orative ring		Consumption	Luminous	Discount
	Light Colour		White	Unit £	S.S.	Unit £	Consumption	flux	group
6	White	F å	38814	321.00	38816	381.00	4W (6VA)	315 lm	Α
-60	RGB thing	G	64552	328.00	64553	389.00	4W (7VA)	186 lm	Α
	RGB DMX	G	64557	328.00	64558	389.00	4W (4VA)	186 lm	Α

 $Rated\ Voltage:\ 12V\ AC\ (RGB\ \&\ White)\ 24V\ DC\ (RGB-DMX).\ IPX8\ protection.\ Includes\ 2.5\ m\ H07RN-F\ 2x1.5\ mm^{2}\ cable.$

MICRO projector for SPA									
	Light Colour		Type of decorative ring				Consumption	Luminous	Discount
			White	Unit £	S.S.	Unit £	Consumption	flux	group
40	White	F å	40765	330.00	40766	390.00	4W (6VA)	315 lm	A
-60	RGB thing	G	64554	338.00	64555	399.00	4W (7VA)	186 lm	Α
	RGB DMX	G	64559	338.00	64560	399.00	4W (4VA)	186 lm	Α

Rated Voltage: 12V AC (RGB & White) 24V DC (RGB-DMX). IPX8 protection. Includes 2.5 m H07RN-F 2x1.5 mm² cable. Fastened between a threaded bolt and 2" nut.



LED LIGHTING - CONTROL SYSTEMS

System		Codes	Unit £	Description	Projectors	
LumiPlus RGB ECO			32458	165.00	The simplest and most economical colour change system. LumiPlus ECO is a push-button switch that allows 14 modes of operation: 7 fixed colours and 7 different colour sequences. Each time the push button is pressed, the colour or sequence will change. By pressing for several seconds, the light is white. The push button must be sized to withstand the power consumed by the number of lights in the facility. Maximum charge 700 VA. Must be connected in the transformer primary.	Any LumiPlus RGB projector
LumiPlus WIRELESS	LumiPlus Control Motion		59125	196.00	Colour change CONTROL in your hand. The LumiPlus Control Motion remote control enables wireless projector control, directly offering on/off options, 12 colour changes, 8 sequence changes and sequence speed. It also detects movement, letting you activate colours and sequences by vertical and horizontal movements, respectively. Compatible with the LumiPlus Wireless range of projectors only. Can control 2 wireless projectors and 3 in FlexiMini.	Flexi (ABS body) V1 RGB Wireless PAR56 V1 RGB Wireless
	LumiPlus Wireless Range Extender		64633	166.00	Allows expansion of the signal that the LumiPlus Control Motion sends to the projectors with the wireless control system. Ideal for facilities whose architectural features or projectors installation makes it hard for the LumiPlus Control Motion signal to reach the wireless projectors properly.	compatible with stain- less steel FlexiNiche projectors.
LumiPlus			27818	455.00	The LumiPlus TOP system is a professional control of the color. System comprising the 27818 modulator and 41988 remote control that enables to control a large number of projectors. The modulator has an antenna with a 50m range to receive the signal from the remote control (bought separately). The LumiPlus TOP system enables:	Any LumiPlus
RGB TOP		0	 Projector on/off action. Colour selection: 12 fixed colours available. Sequence selection: 8 sequences available. Sequence speed selection: 8 speeds available for each sec 		 Colour selection: 12 fixed colours available. Sequence selection: 8 sequences available. Sequence speed selection: 8 speeds available for each sequence. Supplied separately. A total of 10 LumiPlus modulators can be syn- 	RGB projector
	Existing installation	imples g	59131	404.00	Control your pool lighting from your smartphone. App to check LumiPlus lights and projectors from an Android or iOS smartphone or tablet. Enables to control your LumiPlus lights or spotlights from your smartphone or tablet.	
LumiPlus LED APP LumiPlus WIFI	New installation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	59132	844.00	The LumiPlus app should only be installed as an additional feature to the LumiPlus Modulator. It offers a range of 12 colours and 8 sequences or colour change programs. Free app you can download directly from the following sites: Apple: www.lumiplusled-ios.astralpool.com Android: www.lumiplusled-android.astralpool.com	Any LumiPlus RGB projector



LED LIGHTING - CONTROL SYSTEMS

System		Codes	Unit £	Description	Projectors	
					Control your pool lighting anywhere, anytime.	
LumiPlus	Existing installation		57434	430.00	The Modbus protocol enables the control of the LumiPlus modulator. It can be used to switch the projectors on and off, change their colours and sequence speed and set the time for putting the projectors in sleep mode. Download the Fluidra Connect app for instant information about the state of your pool 365 days a year. Fluidra Direct is peace of mind, comfort and leisure. In addition to controlling projectors, LumiPlus lets you	
Modbus FLUIDRA CONNECT	New installation	1 + +	57435	869.00	control the filtration, water treatment and more of your pool through the Modbus protocol. The LumiPlus Modbus should only be installed as an additional feature to the LumiPlus 27818 modulator for correct installation and operation.	Any LumiPlus RGB projector
				Design lighting scenes for fountains and large aquatic spaces		
	RGB DMX Modulator	-	41107	632.00	DMX LED projector modulator/12V AC DMX receiver for the Flexi, PAR56, S-LIM and Design ranges. Receiving orders from the DMX controller (Astral DMX 74099 or Astral DMX Pro 74500) via the DMX bus and acting on the projectors that are connected.	
LumiPlus	RGB-DMX power pack		52142	2142 804.00	Product designed exclusively for use with V2 and V3 Mini LED and RGB DMX Micro projectors. The power pack can control up to 9 projectors, receiving orders from the system's DMX controller (Astral DMX 74099 or Astral DMX Pro 74500) via the DMX bus and acting on the projectors that are connected. The power pack has been designed to be used solely with DMX protocol and 24V DC DMX controllable parts from AstralPool.	
RGB DMX	DMX controller 74099 1,302.00	1,302.00	LumiPlus DMX System makes it possible to control lights individually or by groups. Users will have easy and intuitive full control over a projector or group of projectors. Main advantages / benefits: Very accurate control over the lights: colour and dimming. Plug and play. Projectors can be operated independently or combined. Allows creating new light scenes.	LumiPlus RGB-DMX projector		
	DMX PRO controller	74100 2,461.00		2,461.00	LumiPlus DMX system does not require any additional wiring for projectors. Smartphone or tablet control via an app.	



TRANSFORMERS AND ACCESSORIES



Transformers

300W Transformer 12V 100W Transformer 12V

iscount group	Code	Unit £
A	74065	356.00
A	74067	236.00



Connection box with security cover

Manufactured in ABS, made up of three $\frac{3}{4}$ " inlets/outlets M-25 and $\frac{3}{4}$ " thread connections.



Connection boxes for gluing pipes Ø50 mm

	Discount	Code	Unit £
White	Α	65215	37.00
Anthracite	Α	65215CL144	42.00
Beige	Α	65215CL090	42.00
Light Grey	Α	65215CL129	42.00



Connection box

In AISI-316 stainless steel. Two PG 15 thread side outlets with two PG16 to M25 converters. $3\!4"$ BSP threaded bottom connection.

Discount group	Code	Unit £
J	00393	259.00



Flexible conduit hose

For connection from light to connection box, length $1\ \mathrm{m}$ hose.

	Discount group	Code	Unit £
Threaded ends ¾" & M25	Α	28138	11.00



TRANSFORMERS AND ACCESSORIES



Underwater connection kit

The kit has all the necessary components to carry out any watertight connection. Due to the properties of the product, the resin seals all gaps. Maximum safety, easy installation, in 2 hours it is ready to be submerged.

Kit for \emptyset 13 to 15 mm cables Kit for \emptyset 8 to 12 mm cables

Discount group	Code	Unit £
A	32803	48.00
A	35661	42.00



Overhead connector with IP68 protection rating and 4 poles

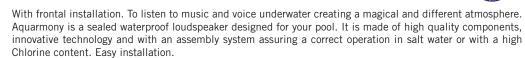
Has 5 connectors and two wrenches.

Discount group	Code	Unit £
Α	71318	132.00

AQUARMONY UNDERWATER MUSIC SYSTEM



Aquarmony Loudspeaker



Aquarmony Loudspeaker Niche for concrete pool Niche for liner pool

Discount group	Code	Unit £
Α	25680	1,912.00
Α	00349	29.00
Δ	00364	75.00

 ${f Note}$: The niches come with a stuffing box assembly and a 1.5-m cable grommet specially designed for the Aquarmony range.



TECHNICAL FEATURES			
Maximum power	60 W		
Impedance	4 ohm		
Frequency	200-12000 Hz		
Maximum area per loudspeaker	80 m²		
Maximum installation depth	40 cm		
Weight	5 Kg		
Cable length supplied	5 m		





192 • Ornamental water features



NOTE: The water features do not include, pump, control panel or suction system.

ORNAMENTAL WATER FEATURES

Range of water curtains for residential pools made of 316 stainless steel. The range is made up of three water curtains in different, updated designs.

All models come with anchoring. A 1/2 HP pump is recommended (code 65557).



A-350 residential water curtain

	group	Code	Oill £
A-350 residential water curtain (satin finish)	W	65104	918.00
A-500 residential water curtain (AISI-316 S.S.)	W	65105	1,199.00



Classic water curtain

	Discount group	Code	Unit £
Classic water curtain AISI-316.	W	57095	2,408.00



Straight water curtain

Discount code Unit £ group

Straight water curtain AISI-316.

W 57096 2,387.00



One water curtain

Discount Code Unit £ group

One water curtain AISI-316.

W 57097 2,007.00



Cannon domestic

Cannon domestic in AISI-316 S.S.

Circular
Flat

Discount group	Code	Unit £
W	52242	433.00
W	52243	433.00

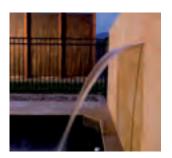


Curtain domestic

Curtain domestic in AISI-316 S.S.

Curtain	A-350
Curtain	A-500

Discount group	Code	Unit £
W	52244	958.00
W	52245	1,025.00

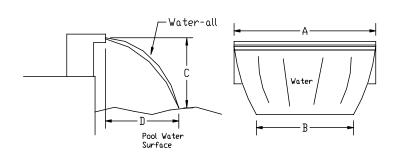


Silkflow Waterfall

Waterfall made of corrosion resistant ABS. Can be fed through the return circuit of the pool filter or pump.

300 mm waterfall
600 mm waterfall
900 mm waterfall
1200 mm waterfall

•	·	
Discount	Code	Unit £
group		
W	45205	216.00
W	45206	262.00
W	45207	296.00
W	45208	364.00



Code	Required water flow I/min	Standard pump size ICV	A Length of waterfall	B Width of waterfall over the pool surface, at the recommended rate of I/min/m	C Recommended height for the waterfall	D Distance of the water at the recommended rate of I/min/m
45205	50	0.5	300 mm	200 mm	300 mm	300 mm
45206	100	0.5	600 mm	500 mm	600 mm	300 mm
45207	150	0.75	900 mm	800 mm	900 mm	300 mm
45208	200	0.75	1200 mm	1100 mm	900 mm	300 mm

NOTE: The water features do not include anchoring, pump, control panel or suction system.

ORNAMENTAL WATER FEATURES









Height: 1.2 m. Width: 600 mm. Stainless Steel AISI-316.

	Discount group	Code	Unit £	
Matte finish	W	19972	2,195.00	
Painted in white	W	19973	2,195.00	





Brightly polished

Height: 1.2 m. Width: 340 mm. Stainless Steel AISI-316.

Discount group	Code	Unit £
W	19974	1,754.00



Deluxe Curtain

Height: 0.9 m. Stainless Steel AISI-316.

	Discount group	Code	Unit £
Brightly polished	W	19975	3,550.00

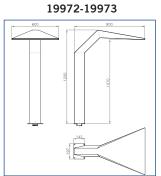
Discount

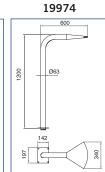


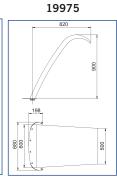
Arched Curtain

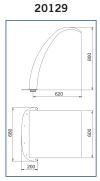
Stainless Steel AISI-316 matte finish.

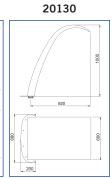
	group	
Width 600 mm, Height 800 mm	W	20129
Width 600 mm, Height1000 mm	W	20130
Width 1000 mm. Height 1000 mm	W	20131



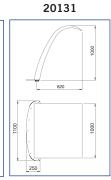








Code



Unit £

2,733.00 3,813.00 5,666.00

E	Anchor Suction		Control Box					
Feature code	Base	Concrete	Concrete	Liner	Pump	Manual	Pneumat	ic switch
code	cover	Concrete	Concrete	Liner		Switch	Concrete	Liner
19972	19981	19983	19987 x 3	20091 x 3	65570	19990	07537	07867
19973	19982	19983	19987 x 3	20091 x 3	65570	19990	07537	07867
19974	19977	19983	19987 x 2	20091 x 2	65565	19989	17154	17155
19975	-	19985	19987 x 3	20091 x 3	65570	19990	07537	07867
20129	-	19985	19987 x 3	20091 x 3	65570	19990	07537	07867
20130	-	19985	19987 x 3	20091 x 3	65570	19990	07537	07867
20131	_	20135	19987 x 3	20091 x 3	65570	19990	07537	07867

Note: The pneumatic switch includes: control box, wall conduits and switch.



Waterfalls

Stainless Steel AISI-316.

Width 300 mm. Connection 11/2" Width 600 mm. Connection 2"

300		250
	325 475	150
		4

Discount group	Code	Unit £
W	05577	597.00
W	05578	1,095.00

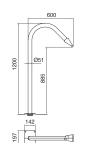
	B	Anchor		Suction			Control Box		
Feature code	Base cover	Camarata	Linas	Comercto	Lines	Pump	Manual	Pneumat	ic switch
coue	Cover	Concrete Liner	Concrete Liner		switch	Concrete	Liner		
05577	-	-	-	19987 x 1	20091 x 1	65558	19988	07669	07868
05578	-	-	-	19987 x 2	20091 x 2	65565	19989	17154	17155

Note: The pneumatic switch includes: control box, wall conduits and switch.



Cannons

In AISI-316 Stainless Steel. (pipe only, without nozzles). Pipe: Ø 50 mm. Height 1.2 m.



Discount group	Code	Unit £
 w	19968	1 210 00

Interchangeable nozzles







Nozzle No 1	
Nozzle No 2	
Nozzle No 3	

Nozzle No 4

Discount group	Code	Unit £
W	05572	313.00
W	05573	313.00
w	05574	313.00
W	05575	313.00



Vertical

In polished AISI-316L Stainless Steel. Pipe: Ø 84 mm. Height 1.5 m.

Discount group	Code	Unit £
W	19969	1.431.00

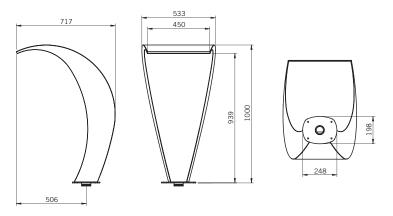




Swan Curtain 450

In AISI-316L stainless steel. Discount group W 34387 POA

Matt finish





Swan Curtain 1000

In AISI-316L stainless steel. Discount Code Unit £ group Matt finish 34390 POA 802 736 0 248 1100

Curtain	Anchoring sockets Suction		Control box				
code	Concrete	Concrete	Liner	Pump	Manual	Pneumatic push button	
			Lillei		push button	Concrete	Liner
34387	19983	19987 x 2	20091 x 2	65565	19989	17154	17155
34390	20135	19987 x 3	20091 x 3	65570	19990	07537	07867

Note: The pneumatic push button includes: control box, wall conduits and push button.

NOTE: The water features do not include anchoring, pump, control panel or suction system.

ORNAMENTAL WATER FEATURES

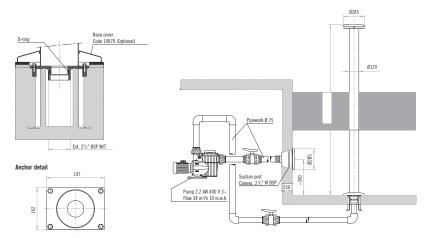




Mushrooms

In AISI-316 polished Stainless Steel. Column Ø 129 mm. Height 2.3 m.

	Discount group	Code	Unit £
Mushroom Ø 285 mm	W	19966	1,784.00



	F	Davis	And	hor	Suc	tion			Control Box	
	Feature code	Base cover	Concrete	Liman	Comercia	Liner	Pump	Manual	Pneumat	ic Switch
ı	code	cover Concrete Liner Concrete	Concrete	ite Liller		switch	Concrete	Liner		
	19966	19979	19983	15833	19987 x 3	20091 x 3	65570	19990	07537	07867

Note: The pneumatic switch includes: control box, wall conduits and switch.



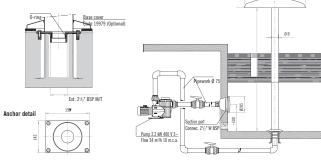
Umbrellas

In AISI-316 polished Stainless Steel. Umbrella in polyester.



Discount group	Code	Unit £
W	22750	1,019.00
W	22751	1,227.00
W	22753	4,333.00
W	22754	1,367.00
W	22755	2,468.00

Note: The pneumatic switch includes: control box, wall conduits and switch.



Harden H.			_	Ancl	Anchor		Suction			Control Box	
Umbrella Ø	Тор	Column	Base cover	Concrete	Liner	Concrete	Liner	Pump	Manual	Pneumat	ic Switch
			COVCI	Concrete	Lillei	Concrete	Liller		switch	Concrete	Liner
1100	22750	22754	19979	19983	15833	19987 x 3	20091 x 3	65570	19990	07537	07867
1500	22751	22755	19980	19984	19986	19987 x 4	20091 x 4	08003	19991	-	-
2500	22753	22755	19980	19984	19986	19987 x 5	20091 x 5	08004	19992	-	-



Concrete pool wall suction point



In AISI-316 Stainless Steel. Ø 285 mm. Suction point for water features. Connection $2^1/2^n$. Max. recommended flow: 13 m³/h.

Discount	Code	Unit £
group		
W	19987	673.00

Code



Prefabricated and liner pool wall suction point

In AISI-316L Stainless Steel. Ø 285 mm. Suction point for water features. Connection $2\frac{1}{2}$ ". Max. Recom-

Discount

mended flow: 13 m³/h.

Prefabricated and liner pool W 20091 848.00



Anchoring for concrete pools



Unit £

In AISI-316 Stainless Steel. Includes base for embedding, screws, washers and earth connection. Connection $2^1/2^n$ BSP.

	group		
Rectangular anchoring	W	19983	535.00
Ø 254 mm anchoring	W	19984	1,068.00
600 mm wide anchoring	W	19985	855.00
1000 mm wide anchoring	W	20135	1,343.00



Anchoring for liner pools

In AISI-316L Stainless Steel. Includes base for embedding, fixing plate, 3 gaskets and earth connection. Connection $2\frac{1}{2}$ ".

	Discount group	Code	Unit £
Rectangular anchoring Ø 254 mm anchoring	W	15833	895.00
	W	19986	1,590.00



19976

Base cover

In AISI-316 Stainless Steel.

Polished Ø 51 mm Polished Ø 63 mm Polished Ø 129 mm





Discount

group

W

W

Code

19976

19977

19979

437.00

437.00

437.00





SPAECIAL THE WELLNESS SOLUTION

200 • Hydro-leisure elements

205 • Emotional showers

206 • Nordic baths

207 • Saunas

SPAECI THEWELL SOLUTI



SPAECIAL THE WELLNESS SOLUTION

HYDRO-LEISURE ELEMENTS



Pool surround cascade



A cascade for pool surround designed to create an intense yet deeply relaxing curtain of water. This accessory is made from mirror-polished AISI 316 stainless steel and needs to be ordered with the anchor plate for secure installation.

	group	Oode	omi z
Pool surround cascade	W	34032	2,495.00
Anchoring plate	W	34033	631.00



Pool surround water jet

Water jet for pool surround, featuring swans-neck shaped cylindrical section, providing a high-pressure jet of water for a relaxing massage.

This accessory is made from polished AISI -316 stainless steel and has to be ordered with the anchor plate for secure installation.

Features 4 interchangeable nozzles:

- 34041 uniform pressure nozzle
- 34042 double pressure nozzle
- 34043 diffuser spray nozzle
- 34044 fan spray nozzle

	Discount group	Code	Unit £
Pool surround water jet	W	34039	633.00
Assembly Plate	W	34040	334.00
Uniform pressure nozzle	W	34041	139.00
Double pressure nozzle	W	34042	130.00
Diffuser spray nozzle	W	34043	130.00
Fan spray nozzle	W	34044	130.00



Wall-mounted water jet

Wall-mounted water jet featuring cylindrical cross-section, Designed to produce multiple high-pressure water jets for a back and shoulder massage of medium intensity, depending on model.

This accessory is manufactured from polished AISI-316 stainless steel. Anchor system for wall mounting.

	Discount group	Code	Unit £
Ø84 wall-mounted circular water jet	W	34464	575.00

SPAECIAL THEWELLNES

HYDRO-LEISURE ELEMENTS



Neck Massage

Neck massage

A new hydro-leisure element for neck massage. Its design enables it to surround the entire neck area for an effective, enjoyable massage.

Made from AISI-316 Stainless Steel, it consists of 6 adjustable mini jet streams...

Discount group	Code	Unit £
W	60792	2,313.00





Massage nozzles

Set comprising three massage effect nozzles, using a combination of water and air to stimulate calves, thighs and hips. These are hung in a vertical arrangement on the wall of the pool, at a height of 30, 60 and 90 cm. from the pool bottom.

The set is completed with a polished rounded stainless steel handrail which can either be attached to the pool surround or the wall of the pool itself. This handrail serves two functions - it gives pool users something to hold onto whilst at the same time, allows air to enter through holes situated along its length which is then directed to the nozzle by the so-called venturi effect. Made from AISI-316 Stainless Steel.

	Discount group	Code	Unit £
3 massage nozzle kit for concrete	W	34049	2,933.00
Handrail for massage nozzle set	W	34050	893.00



Hydromassage jet

Hydromassage jet system, specifically designed to be situated in areas where there are benches, water channels etc. Wherever an intense, localised massage is required. The acceleration of the water jet resulting from the venturi effect creates hundreds of thousands of tiny air bubbles which further intensify the massage effect. This accessory is 100% mirror-polish AISI-316 stainless steel with interchangeable nozzles.

	Discount group	Code	Unit £
9 nozzle trim and jet set for concrete	W	35753	313.00
Ball jet trim set for concrete	W	35754	357.00

Hydromassage Mini-Jet

Hydromassage jet system, specifically designed to be situated in areas where there are benches, water channels etc. Wherever an intense, localised massage is required. The acceleration of the water jet resulting from the venturi effect creates hundreds of thousands of tiny air bubbles which further intensify the massage effect. This accessory is 100% mirror-polish AISI-316 stainless steel with interchangeable nozzles.

	Discount group	Code	Unit £
9 nozzle trim and minijet set	W	41282	251.00
Ball minijet trim set	W	41283	350.00

HYDRO-LEISURE ELEMENTS



Dynamic hydro-channel jet

Comprised of a set of water jet nozzles in mirror-polish AISI-316 stainless steel which, when situated and directed correctly, provide a flow of water using recycled pool water. Creates water currents of varying strengths.

	Discount group	Code	Unit £
Dynamic hydro-channel jet concrete	w	34055	1,264.00



Pool floor massage grills

Pool floor massage effect air bubble generator. Cylindrical polished AISI-316 stainless steel accessory to be installed in pool floors.

Available in the following diameters: 300 mm, 300x300 mm, 550x500 mm, 675x675 mm and 750x750 mm.

	Discount group	Code	Unit £
300 mm diameter hydromassage grill concrete	W	35078	770.00
Hydromassage grill 300 x 300 Concrete	W	35077	680.00
Hydromassage grill 500 x 500 Concrete	W	35074	1,098.00
Hydromassage grill 675 x 675 Concrete	W	35075	1,057.00
Hydromassage grill 750 x 750 Concrete	W	35076	1,293.00



Bubble snake

Elongated pool floor massage effect air bubble generator.

The casing is made from polished AISI-316 stainless steel in the form of a long snake, to be installed in pool floors. The steel sheeting has holes along its length to allow the bubble to escape and create the desired effect.

	Discount group	Code	Unit £
Bubble snake concrete	W	34048	3,448.00



Hydromassage bench

Elongated massage effect air bubble generator for pool floor and/or bench for feet and buttocks.

Polished AISI 316 rectangular or semi-circular stainless steel casing accessory for mounting on pool bottoms or benches. The steel sheeting has holes along its length to allow the bubble to escape and create the desired effect.

	Discount group	Code	Unit £
600 mm model concrete	W	34051	907.00
300 mm model	W	60714	435.00
1200 mm model concrete	W	34052	1,153.00

HYDRO-LEISURE ELEMENTS



Air beds



Ergonomically designed massage accessory with air jets in the back, lumbar and leg regions. The bed is comprised of AISI-316 stainless steel casing with air holes situated in the key massage areas.

The range includes both a single and double model.

	Discount group	Code	Unit £
Single model concrete Double model concrete	W	35249	855.00
	W	35250	1,865.00



Hydromassage lounger



Manufactured in AISI-316 stainless steel and ergonomically designed to provide maximum comfort. The system is based on air which is injected through the base of the lounger, providing a muscle-relaxing massage.

	Discount group	Code	Unit £
1700 mm embedded lounger	W	31998	4,061.00
1700 mm embedded column lounger	W	31996	4,459.00



Hydromassage beds



An elegant, modern design made of stainless steel tubes. Easy to install.

A single bed to which additional units can be added to achieve the desired width.

Discount group	Code	Unit £
W	58812	6,411.00



High flow suction grills

Tubular concrete hydromassage bed

An attractive element manufactured in AISI-316 stainless steel, comprised of a frame and modular grill, this piece has been especially designed to protect the suction tubes which feature in high-flow grills.

The modular grill system provides the necessary surface are for the centralised suction from one or more water effects and the high flow capacity that these need, as well as concentrating in one single spot all the suction and drainage installations that such effects require.

	Discount group	Code	Unit £
High flow suction grill for concrete 90 m ³ /h concrete 125 m ³ /h concrete	W W	35368 35369	479.00 574.00

HYDRO-LEISURE ELEMENTS



ASTRALPOOL

Piezoelectronic push button kit

Push button based on the piezoelectric principle. Light pressure on the piezo-electric element generates the necessary voltage to activate the electric circuitry. Especially designed for use in the most demanding of environments. Indestructible, vandal-proof, resistant to water and dust, free of moving parts and maintenance-free, keeping repair costs to a minimum.

Manufactured from aluminium or stainless steel, depending on the model, housing in AISI-316 stainless steel.

Simple push button
1 LED push button
2 LEDs push button

Discount	Code	Unit £
group		
W	45219	401.00
W	35759	523.00
W	35760	427.00







45219

35759

35760



Single piezoelectric push buttonit

A new piezoelectric push button with an attractive design. It is especially designed to work in adverse environments.

Its high resistance helps reduce maintenance costs.

Despite IP-68 protection, immersion is not recommended.



Discount group	Code	Unit £
 w	60747	296.00

Single piezoelectric push button



Water effect timer

This accessory allows for timed shut off of water effects such as cascades, water jets etc, meaning that they do not have to be permanently connected.

This is activated via a piezo-electric switch situated near the pool. When the switch is pressed, a relay circuit is activated which starts up the mechanism and the timer, which may be programmed for a period of time from 0 to 30 minutes. Once that time is up, the relay system automatically disconnects.

The timer also permits simple on/off operation, without the timer function. In this case it needs to be switched to "Manual" mode.

The timer LEDs indicate installation activity:

- Red LED = Effect deactivated
- Green LED = Effect activated

The terminal also features two additional outlets for push button LED indicators.

	Discount group	Code	Unit £
Water effect timer	W	35761	264.00

EMOTIONAL SHOWERS

Emotional showers

New range of showers with various jet options, audio, water or air aromatherapy.

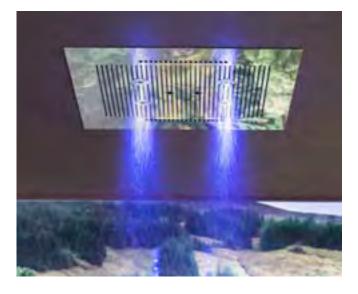
Control options either manual, sequence or multi sequence (sense pro model only).

Please ask the sales office for further details.











SPAECIAL THE WELLNESS SOLUTION

NORDIC BATHS



Wooden nordic bath

The baths are made with the best quality of Red Cedar (grade 2.40 mm thick) for maximum durability. They are available in different diameters from 150 cm to 220 cm to accommodate 2 to 8 people.

	group	Code	Unit £
Wooden nordic bath			
150 cm - 2/3 people	W	74095	10,636.00
160 cm - 3/4 people	W	74096	12,269.00
180 cm - 5/6 people	W	74109	14,190.00
200 cm - 6/7 people	W	74110	16,112.00
220 cm - 7/8 people	W	74111	16,368.00



Stainless steel nordic bath

The baths are made with the best quality of Red Cedar (grade 2.40 mm thick) and stainless steel for maximum durability. They are available in different diameters from 150 cm to 220 cm to accommodate 2 to 8 people.

	Discount group	Code	Unit £
Stainlees Steel nordic bath			
150 cm - 2/3 people	W	74112	21,491.00
160 cm - 3/4 people	W	74113	24,533.00
180 cm - 5/6 people	W	74114	26,998.00
200 cm - 6/7 people	W	74115	27,959.00
220 cm - 7/8 people	W	74116	30,520.00



Stainless steel bath

AstralPool Nordic bath offers a unique filtration and treatment technology for Nordic baths to guarantee bacteria-free water.

- Ultra fine 1 micron filtration captures 100% of particles.
- The 18 m³/h pump have a 6 minutes turnover.
- High radiation UV and Ozone treatments kill bacteria and disinfect the water.
- OZONE CHOC® treatment cleans biofilms and eliminates bacteria (international patent EP2785648).
- The measurement and management of water quality are managed by an integrated computer (ORP reader, pH, T° C).

Code	Description	Pump	Ozone generator	UV	Heater	PH/ORP gestion	Smartphone APP	Unit £
74117	Water treatment nordic bath Standard	550 w	1 lamp	1 lamp	3 kw	-	-	12,717.00
74118	Water treatment nordic bath PRO	550 w	2 lamps	1 lamp	3 kw	Yes	-	21,939.00
74119	Water treatment nordic bath PRO+	750 w with integrated heater 1.5 wh	3 lamps	1 lamp	3 kw + 3 kw	Yes	Yes	36,828.00

Please ask sales for futher details

SAUNAS

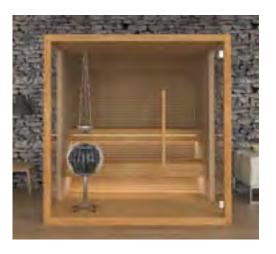
Available from AstralPool are a wide range of saunas and accessories competitively priced, shown below are just a few options of what are available.

The benefits of an AstralPool sauna range from muscle relaxation to sweat stimulation thanks to their hot and dry environment (relative humidity between 20% and 50%). AstralPool saunas are made from prefabricated panels with interior insulation in mineral wool and aluminium. The wall coating is covered with pre-treated wood that has been fired and dried to last for many years.











SPAECIAL THEWELLNESS SOLUTION





LAGHETTO POOLS

210 • Dolce Vita model

216 • Divina model

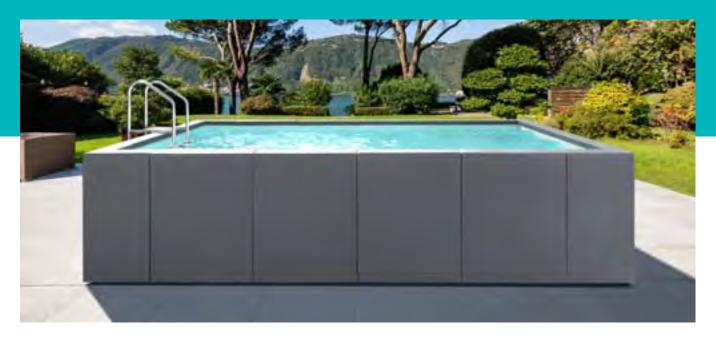
220 • POP! model



Dolce Vita

A pool that looks good in any environment and that you can build even where a traditional inground swimming pool can't be placed.

Dolcevita is the most fashionable and desirable pool for those people who search something to stand out and who setup a space dedicated to the pleasure and the family relaxation.



DIVA -	DIVA - RATTAN							
MOD.	WATER SIZE (m)	TOTAL ENCUMBRANCE (m)	WATER HEIGHT (m)	TOTAL HEIGHT (m)	VOLUME (m³)			
24	2 x 4	2.4 x 4.4	1.2	1.3	9.6			
25	2 x 5	2.4 x 5.4	1.2	1.3	12			
35	3 x 5	3.4 x 5.4	1.2	1.3	18			
36	3 x 6	3.4 x 6.4	1.2	1.3	21.6			
37	3 x 7	3.4 x 7.4	1.2	1.3	25.2			
48	4 x 8	4.4 x 8.4	1.2	1.3	38.4			
49	4 x 9	4.4 x 9.4	1.2	1.3	43.2			
510	5 x 10	5.4 x 10.4	1.2	1.3	60			

Special sizes are available on demand.

DIVA LTI - DIVINA (only in size 35, 36, 37, 48)					
MOD.	WATER SIZE (m)	TOTAL ENCUMBRANCE (m)	WATER HEIGHT (m)	TOTAL HEIGHT (m)	VOLUME (m³)
35	3 x 5	3.4 x 6.1	1.2	1.3	18
36	3 x 6	3.4 x 7.1	1.2	1.3	21.6
37	3 x 7	3.4 x 8.1	1.2	1.3	25.2
48	4 x 8	4.4 x 9.1	1.2	1.3	38.4
49	4 x 9	4.4 x 10.10	1.2	1.3	43.2

Available in 2.5 - 3 - 4 m. width only.

Dolce Vita

FEATURES:

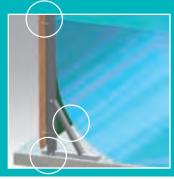
Dolcevita renews the world of above-ground pools thanks to a sound technology Laghetto which is on the market for over 40 years, and its innovative and graceful design.

Dolcevita can adapt to the needs of a changing family, allowing thoughts, repositioning, moving, resale.

Its versatility allows easy and quick installation even in areas with seasonal permits only.

Dolcevita provides a recirculating and filtration system which enables the highest quality and hygiene of the water purity. Dolcevita comes up in two different models: Diva and Rattan, with high quality materials that ensure long time use.

Structure



Pool liner



Plastic Wood Coping (RATTAN line)



TRELLIS PILLARS

Powder coated hot galvanized steel with stainless steel piece of support.

TRELLIS SPARS

Powder coated hot galvanized steel. **NUTS AND BOLTS**

Stainless steel with anti-grip nuts.

LINER

Made of PVC coated polyester fabric membrane it is incredibly strong (it easily passes DIN 53354 test up to traction of 430 Kg on 5 cm), it is treated with a special coating that prevents dirt from attaching to exposed areas and provides protection against damage caused by UV light to be very durable.

DOLCEVITA TOPRAIL FINISH

Rattan toprail finish is a dedicated composite wood made for us exclusively by Plastic Wood. Diva toprail finish is integrated in the design of the special wicker panel.







Warranty on the pool (liner + structural parts) is 5 years, warranty on all the other accessories included in the kit is 2 years.



DOLCE VITA

DOLCE VITA Rattan model



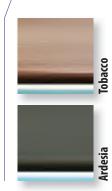


Internal structure

2 **Pool liner**



Dolcevita Composite Wood Top Edge



Exterior panels: handwoven fiber





Filtration System (as in the diagram) attention: the filtration system doesn't include the electrical panel.



AstralPool sand filters

Hight brightness LED spotlight:

- 1 Spot until model 36,



2 Spots from model 37 until model 510



ATTENTION: ONLY AVAILABLE AS COMPLETE KIT -HALF-METER MEASURES NOT AVAILABLE.

Vacuum cleaner system.

Wooden panel supports and wicker corner pieces.

9

Overflow system.

10

Dolcevita safety ladder.



1 + 2 + 3 + 4 + 5 +

6+7+8+9+10

POOL KIT

WICKER PANELS AND CORNER PIECES AVAILABLE IN TWO COLORS: COFFEE OR GREY, POOL LINER (COLOR CHOICE: SAND OR WHITE)

 $\mathbf{x} =$

BICF (white liner and coffee panels)

BIGR (white liner and grey panels)

BECF (beige liner and coffee panels)

BEGR (beige liner and grey panels)

DOLCE VITA

DOLCE VITA DIVA model





I Internal structure

2 Pool liner





Panels with integrated top edge



aghetto white grey

POOL KIT

=

1+2+3+4+5+6+7+8+9



ATTENTION: ONLY AVAILABLE AS COMPLETE KIT. HALF-METER MEASURES NOT AVAILABLE.

3

Filtration System (as in the diagram) attention: the filtration system doesn't include the electrical panel.



AstralPool sand filters

4

Hight brightness LED spotlight:

- 1 Spot until model 36,
- 2 Spots from model 37 until model 510

Vacuum cleaner system.

7

Wooden & steel panels-supports.

- 8
- Overflow system.
- o

Luxury ladder specific for Diva version.





PANELS AND TOP EDGE INTEGRATED IN ONE PIECE MADE OF WICKER. AVAILABLE IN THREE COLORS: COFFEE, GREY OR LAGHETTO WHITE.

POOL LINER (COLOR CHOICE: SAND OR WHITE)

 $\mathbf{x} =$

BIGR (white liner and grey panels)

- **BIBI** (white liner and white panels)
- **BEGR** (beige liner and grey panels)
- **BEBI** (beige liner and white panels)

DOLCE VITA

DOLCE VITA DIVA LTI model





Internal structure

2 Pool liner





Panels with integrated top edge



Laghetto white grey

POOL KIT =

1+2+3+4+5+6+7+8+9



ATTENTION: ONLY AVAILABLE AS COMPLETE KIT - HALF-METER MEASURES NOT AVAILABLE.

CAUTION: THE EQUIPMENT ROOM IS NOT LOADBEARING.
NO PERSONS ALLOWED ON IT.

3

Filtration System (as in the diagram) attention: the filtration system doesn't include the electrical panel.



AstralPool sand filters

4 Hight brightness LED spotlight: 1 Spot until model 36, 2 Spots from model 37 until model 510 Vacuum cleaner system.

7

Wooden & steel panels-supports.

8

Overflow system.

9

Luxury ladder specific for Diva version.





PANELS AND TOP EDGE INTEGRATED IN ONE PIECE MADE OF WICKER. AVAILABLE IN THREE COLORS: COFFEE, GREY OR LAGHETTO WHITE. POOL LINER (COLOR CHOICE: SAND OR WHITE)

x =

BIGR (white liner and grey panels)

BIBI (white liner and white panels)

BEGR (beige liner and grey panels)

BEBI (beige liner and white panels)

DOLCE VITA

DOLCEVITA NAKED model





I Internal structure

2 Pool liner





5
Dolcevita Composite Wood Top Edge



3
Filtration System (as in the diagram)
attention: the filtration system doesn't include
the electrical panel.



AstralPool sand filters

4
Hight brightness LED spotlight:
1 Spot until model 36,
2 Spots from model 37 until model 510

6 Vacuum cleaner system.

7 Wooden panel-supports.

8 Overflow system.

9 Dolcevita safety ladder.



POOL KIT

=

1 + 2 + 3 + 4 + 5 +

6 + 7 + 8 + 9



ATTENTION: ONLY AVAILABLE AS COMPLETE KIT



POOL LINER - COLOR CHOICE.

 $\mathbf{x} =$

BE Beige

BI White



CONTEMPORARY SEMI-UNDERGROUND

Divina, the latest addition to the Laghetto Pool Design range, already expresses from its name the style and charm that distinguish it.

Its semi-underground basin is wrapped in panels with a pleasant synthetic rattan finish, hand woven on aluminium frame; embellished with a sunbed and seats with soft cushions in nautical Sky, can be equipped like a traditional swimming pool: LED spotlights, swimming against the current and heater, which allows you to enjoy the pleasure of the pool for longer.

Equipped with skimmer filtration system, with a technical room under the sunbathing area, it can be installed without impacting construction works and in just a few days. Divina Infinity is the new concept of overflow semi-inground pool, launched in 2022, available for assembly only on concrete basement. It represent a new elegant proposal that allows to enjoy the maximum of your pool in terms of elegance, design and performances.

FEATURES

▶ Size: 35 - 36- 37 - 48

Color: White.

▶ Filtration: Overflow + sand filter.

▶ RATTAN PANEL COLOR: Laghetto White - Grey

▶ LINER COLOR: White - Beige

▶ MODEL: Version only for assembly on concrete base







Divina Resort is a semi-grounded pool as Divina, but Resort has a filtration with the overflow system. The water mirror sizes are the same as Divina. Resort Model is available only in the version with structure for assembly on concrete base.

DIVINA

DIVINA Infinity model







1 Internal structure

2 Pool liner





5 Panels with integrated top edge.



aghetto white grey

Ground containment panels.



Filtration System (as in the diagram) attention: the filtration system doesn't include the electrical panel.



AstralPool sand filters



4 Hight brightness LED spotlight: 1 Spot until model 36, 2 Spots from model 37

6 Vacuum cleaner system.

FIXING AND ALIGNMENT KIT.





8 Luxury specific for Divina version.



POOL KIT

_

1+2+3+4+5+6+7+8+9



PANELS AND TOP EDGE INTEGRATED IN ONE PIECE MADE OF WICKER. AVAILABLE IN TWO COLORS: GREY OR LAGHETTO WHITE. POOL LINER (COLOR CHOICE: LIGHT BLUE, SAND OR WHITE)

x =

BIGR (white liner and grey panels)

BIBI (white liner and white panels)

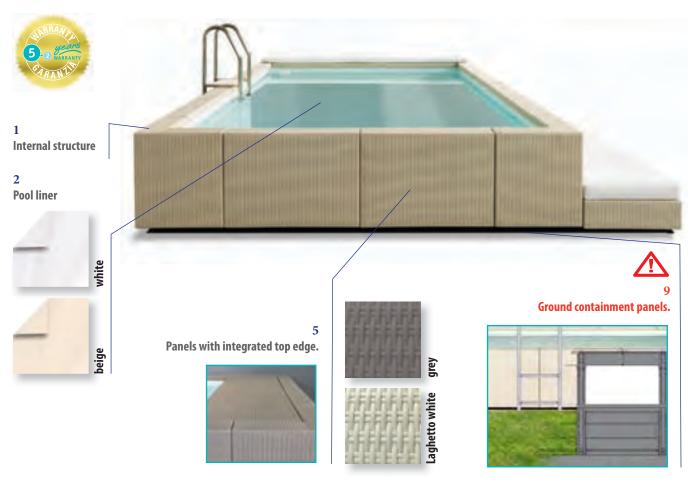
BEGR (beige liner and grey panels)

BEBI (beige liner and white panels)

DIVINA

DIVINA model





3 Filtration System (as in the diagram) attention: the filtration system doesn't include the electrical panel.



AstralPool sand filters

4
Hight brightness LED spotlight:
1 Spot until model 36,
2 Spots from model 37

6 Vacuum cleaner system.

FIXING AND ALIGNMENT KIT.





8 Luxury specific for Divina version.



POOL KIT

=

1+2+3+4+5+6+7+8+9



PANELS AND TOP EDGE INTEGRATED IN ONE PIECE MADE OF WICKER. AVAILABLE IN TWO COLORS: GREY OR LAGHETTO WHITE. POOL LINER (COLOR CHOICE: LIGHT BLUE, SAND OR WHITE)

x =

BIGR (white liner and grey panels)

BIBI (white liner and white panels)

BEGR (beige liner and grey panels)

BEBI (beige liner and white panels)

POP!

is the range of above ground pools with which Laghetto celebrate its first 40 years in the swimming pool industry.

It's the result of four decades of patents and innovative projects and represent the highest expression of quality on the above ground pools market.

The Pop range is available both in 100 and 120 cm water depth in a wide choice of soft, cool and fashion colors you can set in a pleasant and unconventional way in your space or garden.

STANDARD EQUIPMENT

- ▶ LED lights.
- ▶ Safety ladder.
- ▶ Exclusive Laghetto water filtration and treatment system. Choice of AstralPool sand filters.
- ▶ Special foot blocks for ground assembly.











New

POP Crystal

Something thrilling for the 2022 summer? A new above ground pool that will fascinate everyone with its strips of transparent liner that create a suggestive light effect both during the day and the night, when it creates a magical and inimitable atmosphere.

Available in two sizes and two liner colors, it is equipped with a sand filtration system (6 m³/h) and all the same equipment as POP pools, with led lights to create and emphasize the magic of light beams through the crystal transparent liner stripes.



- ▶ Size: 24 (2X4M) 25 (2X5M).
- ▶ Color: White.
- ▶ Filtration: Sand 6 m³/h.













POOL COVERS AND ROLLERS

- 224 Storage rollers for covers
- 226 Grando automatic covers
- 227 Grando automatic covers : Systems
- 229 Grando automatic covers : Pool cover slats
- 230 · Cover Pools





STORAGE ROLLERS FOR COVERS



Central tube in anodised aluminium Ø 100 mm

Roller tubes only Fixed tube, length 4.5 m Fixed tube, length 5.5 m

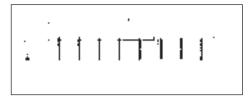
Fixed tube, length 6.6 m (incl.2 straps)

Telescopic tube, length 4 - 5.5 m Telescopic tube, length 5 - 6.6 m

For other lengths, please refer to sales office.

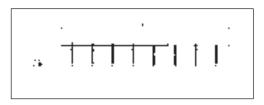
Discount group	Code	Unit £
A A A A	07622 07623 07624 07625 07626	630.00 726.00 843.00 807.00 913.00

Fixed tube



Tube code	L (m)	Ø B (mm)	N° straps
07622	4.5	100	8
07623	5.5	100	8
07624	6.6	100	10

Telescopic tube



Tube code	L (m)	Ø B (mm)	N° straps
07625	4.0 - 5.5	95/100	8
07626	5.0 - 6.6	95/100	8



Tube not included

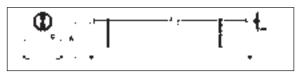
Stainless steel "T" supports for cover roller

Pair of "T" supports. Includes steering wheel operation with 8 straps and cover fixings.

Discount group	Code	Unit £
Α	07631	458.00

A set of 2 "T" supports in AISI-304 $\,$

The tube is not included in the price



Tube code	A (mm)	C (mm)
07631	500	514



STORAGE ROLLERS FOR COVERS



Mobile roller end supports in stainless steel

Pair of supports comprising 1 x "T" support and 1 x "T" support with wheels. Includes steering wheel operation with 8 straps and cover fixing

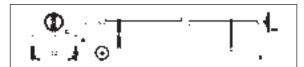
with 8 straps and cover fixing.

Supports in AISI-304

 Discount group
 Code Unit £

 A
 07628
 575.00

The tube is not included in the price.



Code	A (mm)	C (mm)
07628	500	650



Stainless steel supports with adjustable height

Pair of flange fixing supports with adjustable height from 500 - 800 mm. Includes steering wheel operation

with 8 straps and cover fixings.

Discount group	Code	Unit £
Α	07629	471.00

The tube is not included in the price.



Code	A (mm)	B (mm)
07629	500 to 800	100



Wall support for roller

Set of

Pair of wall fixing supports. Includes steering wheel operation with 8 straps and cover fixings.

	Discount group	Code	Unit £
2 supports	Α	07630	502.00

The tube is not included in the price.

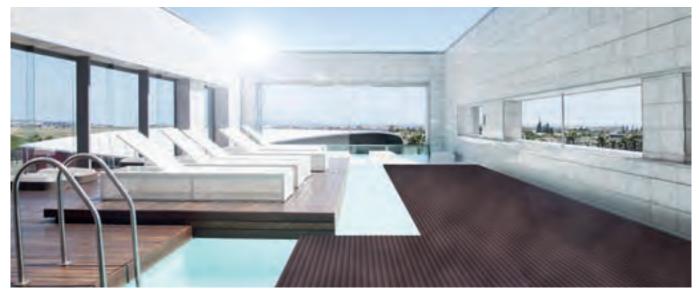


Code	A	B	C
	(mm)	(mm)	(mm)
07630	500	100	500



GRANDO AUTOMATIC COVERS

FITS PERFECTLY. LOOKS GREAT.









GRANDO AUTOMATIC COVERS: SYSTEMS

Above-ground pool cover

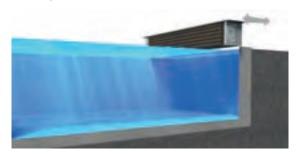
Above-ground pool covers are installed above the water level on the edge of the pool. They can be fitted retroactively without problem and are often camouflaged as a bench or storage area.

Grando supplies above-ground pool covers in a Light or Compact version, to suit the type of pool and according to your wishes. Both versions are also available as a Mobile system.



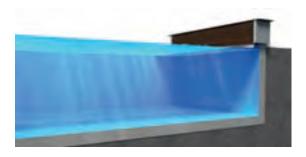
TYPE LIGHT

The LIGHT type pool cover is the ideal solution for pools up to 6 x 12 m. The roller system is positioned on the edge of the pool and is particularly suitable for retrofitting. Thanks to the special Light slats, the aluminum shaft, and the compressed Light drive unit, the diameter of the rolled-up cover is very small and can be installed in indoor pools without paneling to save space.



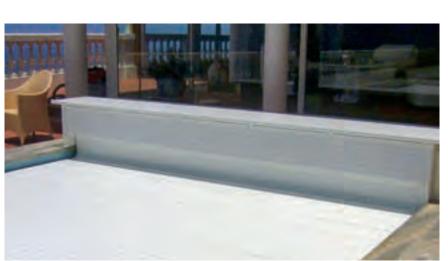
TYPE MOBILE

The MOBILE type pool cover is particularly suitable for unconventional pool shapes. The integrated mobile system (electrical or manual) allows the unit to be positioned in the middle of the pool so that the cover can be rolled up in both directions to cover as large an area of water as possible.



TYPE COMPACT

The roller system is positioned on the edge of the pool and can be retrofitted to existing pools without problem. Unlike the Light cover, this above-ground system has a stainless steel shaft and the premium slats.









GRANDO AUTOMATIC COVERS: SYSTEMS

Below-ground pool cover

If you are at the planning stage of your pool and are thinking about installing a pool cover, a particularly elegant solution is to opt for a cover that lies in the pool itself. The advantage of this is that the unit is under the surface of the water and does not impair the overall appearance of your pool. Alternatively, it can be accommodated in the pool inside a pit.



TYPE IBS-1

The roller system is mounted above the bottom of the pool and can be covered in a variety of ways.



TYPE IBS-2

The roller pit is positioned below the bottom of the pool and is covered with an underwater grating.



TYPE IBS-3

The roller system is mounted below the bottom of the pool with an automatic shutter.



TYPE IBS-4

The IBS-4 is used mainly with existing pools when the width of the pool tapers off towards the bottom.



TYPE IBS-5

The roller system is let into the wall of the pool directly below the water level.



TYPE IBS-6

The roller system is let into the back wall of the pool above the bottom of the pool.



TYPE IBS-8

The IBS-8 is intended primarily for asymmetrical pool shapes for both public and private use.



TYPE IBS-9

The roller system is positioned behind the rear wall of the pool and must be connected to the pool itself.









GRANDO AUTOMATIC COVERS: POOL COVER SLATS

Premium-Profil 60/14

Grando pool cover slats have been developed specifically to meet the stringent demands made on swimming pool covers. The Premium version is a hollow, three-chamber slat 60 mm wide and 14 mm thick with a smooth, slightly curved surface. A double-hook system connects the individual slats to one another.

PVC

A rigid PVC specially developed for the swimming pool industry can withstand most conditions and is also economical in production.

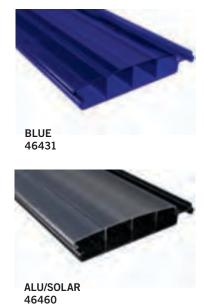
Recommended wherever no extreme demands are made on impact strength and temperature resistance.

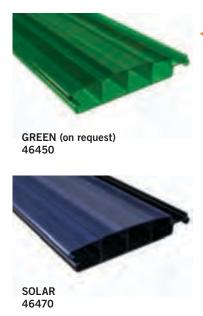


Polycarbonate

Because of its special hardness, polycarbonate has much higher impact resistance than PVC. It can also withstand higher temperatures. Recommended in regions where it can get very hot.



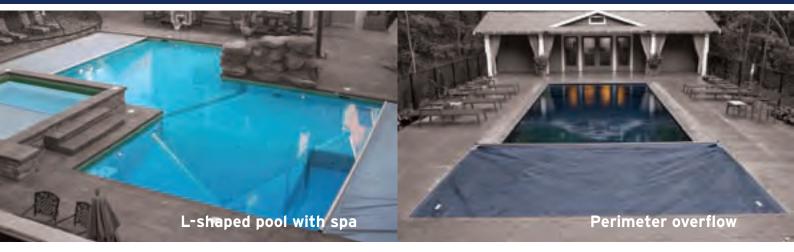




COVER POOLS®

THE FUTURE OF

AUTOMATIC POOL COVERS IS HERE



WHY COVER-POOLS®?

The inventors of the automatic pool cover

Cover-Pools founder, Joe Lamb, patented the first automatic pool cover in 1959 and today, our team continues to be the most experienced in the industry.

Innovation leaders

Our engineers develop cutting-edge technologies like stainless steel cable, putting us at the forefront of the industry.

Widest range of cover solutions

Cover-Pools offers a wealth of easy and costeffective options for any type, size or shape of pool.

How Cover-Pools Will Benefit Your Customers

Our multitasking cover acts as a safety cover, solar cover and winter cover, saving pool owners up to 70% on operating costs.*

*According to the U.S. Department of Energy https://www.energy.gov/energysaver/swimming-pool-covers

Exclusive Features

- Stainless Steel Cable
- Corr-Resist™ Technology
- AquaLink® Automation Integration
- Coated and Laminated Fabric Options
- Standard Salt Water Pool Warranty
- Ultimate[™] Product Line

Warranties

With more than 50 years' experience, customers trust us to support our warranties.

- 3-Year Warranty: Motor, electrical and components
- 7-Year Warranty: Lid assembly, tracks, leading edge,
 roller tube and fabric
- Lifetime Warranty: Slip clutch and mechanism













T4 - THE FIRST AND ONLY AUTOMATIC POOL COVER SYSTEM DESIGNED FOR STAINLESS STEEL CABLE

Strong and with a smaller footprint, the T4 system is the only automatic pool cover system designed for stainless steel cable – a more durable cable that doesn't stretch or shrink like traditional rope.

Smaller Footprint

The industry's shortest hydraulic footprint fitting a 19" motor side that can be covered by 24" offset coping.



Superior Durability

Made of stainless steel, our cables don't shrink or stretch, offering superior durability over traditional rope.



FASTER AND EASIER INSTALLATION, ADJUSTMENTS AND FABRIC REPLACEMENTS

Maximum Adjustability

The T4 system provides enhanced flexibility with an adjustable reel diameter for easily fine-tuning the alignment of the leading edge to create a flush cover seal. Adjustable end hubs accommodate varying lengths in the roller tube by 3 inches in either direction.

Easy Installation

A separate mounting cradle contributes to quicker installation, fitting various sized vaults.







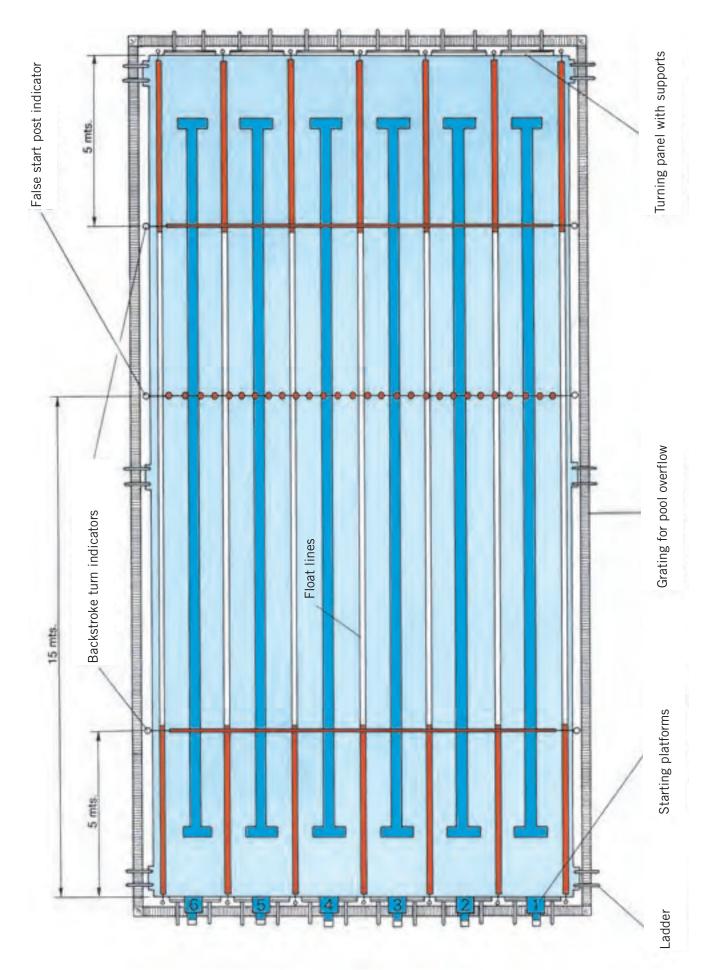


COMPETITION POOL ACCESSORIES

- 235 Starting blocks for competition pools
- 237 Headwalls for competition pools
- 239 Floats
- 240 Lane rope storage equipment
- 241 Lane rope accessories
- 243 Indicators
- 244 Turning panels
- 245 Anchoring sockets









STARTING BLOCKS FOR COMPETITION POOLS



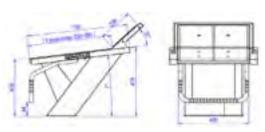
Starting block



Specially designed for competition events. Available with adjustable footrest to facilitate entry into the water. Its minimalist design in high quality materials gives it an elegant and modern look. Made of AISI-316 stainless steel. Polished surface finish. Adjustable footrest (6 positions).

	Discount group	Code	Unit £
Starting block	J	53875	4,668.00

Needs anchor code 54460



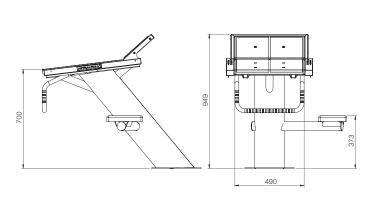


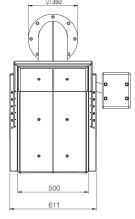
Starting block H-700 mobile support

Specially designed for competition FINA compliant and UNE EN 13451-4. It has adjustable support of 6 positions to facilitate the exit to the swimmer. Made of AISI-316 stainless steel and witha height of 700 mm to avoid having to install headwall for podiums in the pool. Installation with anchor 73971 not included in supply.

Discount group	Code	Unit £
J	74011	5,365.00

Starting block, height 700 mm







Starting block H-700 anchorage

Anchor designed for the H-700 podium with support, code 74011, to be embedded in concrete. Made in Stainless Steel AISI-316L.

	Discount group	Code	Unit £
Anchor	J	73971	307.00

COMPETITION POOL ACCESSORIES

STARTING BLOCKS FOR COMPETITION POOLS

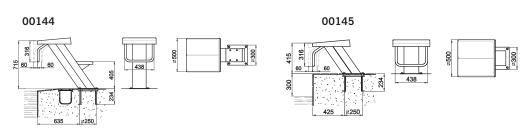


Starting blocks



Base in S.S. AlSI-316. Adjustable platform in polyester & fibreglass with non-slip finish 500 mm x 500 mm. Number sequence not included. Plate anchoring for starting block in AlSI-316 code 54461 not included.

	Discount group	Code	Unit £
POLISHED FINISH: Height 700 mm Height 400 mm	1	00144 00145	1,727.00 1,320.00





Starting blocks



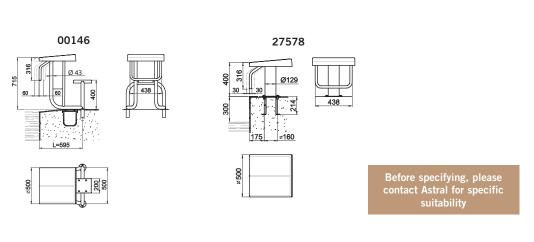
Made in S.S. AISI-304. Platform in Polyester and fibreglass with non-slip finish 500 mm x 500 mm. Number sequence not included.

	group	Coue	OIIIL D
POLISHED FINISH:			
Height 700 mm	J	00146	955.00
Height 400 mm	J	27578	858.00

Not Suitable for Competitive Swimming

The starting block with code number 00146 may be made to order to adapt to the position of the overflow channels. In such cases, the measurement for L must be provided.

Codes 00146 and 19958:
Tube anchoring for starting block code 00143 not
included.
Codes 27578 and 27836:
Tube anchoring for starting
block code 54462 not
included.





HEADWALLS FOR COMPETITION POOLS



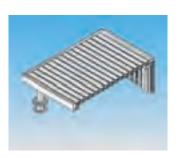
Headwall for podiums

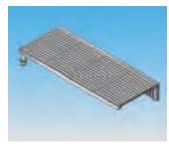


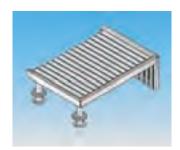


AstralPool has created a headwall that allows starting blocks to be attached. This addition extends our range of products for competition. The item consists of an AISI-304 Stainless Steel structure and plastic grating. The platform can also be used as a turning panel and includes anchors for float lines.

	group	Code	UIII £
Headwall lane width 2 m Headwall lane width 2.5 m Headwall right corner Headwall left corner]]]	34213 34214 34215 34216	4,333.00 4,764.00 2,243.00 2,060.00







Podiums fixing



Anchoring for installation of the podiums in concrete, made in Stainless Steel AISI-304/316, composed by inground base, bolts and washers, with connection to the equipotential circuit.

	Discount group	Code	Unit £
Competition podium fixing, made in AISI-316	J	54460	228.00
Fixing for the podium with rectangular feed, made in AISI-316	J	54461	131.00
Fixing for the podium with tube feed, made in AISI-304	J	54462	114.00

Fixing 54460: For podiums codes 28760-28761

Fixing 54461: For podiums codes 00144 - 00145 - 19956 - 19957

Fixing 54462 : For podiums codes 27578 - 27836.



Starting blocks numbers



4 units of each supplied.	Discount group	Code	Unit £
Height 80 mm (For podiums 00146-27578-19958-27836) For starting blocks from 1 to 6 For starting blocks from 1 to 10	1	28616 28617	87.00 151.00
Height 100 mm (For podiums 00144-00145-19956-19957-28760-28761-32700) For starting blocks BCN03 from 1 to 6 For starting blocks BCN03 from 1 to 10	J	34200 34201	329.00 589.00

Height Height 80 mm 100 mm

COMPETITION POOL ACCESSORIES

LANE ROPES

S



BCN03 Competition lane rope model

The lane ropes are supplied with floats, 6 mm stainless steel cable (code 28808) Tensioner 00208 and spring 01468. Floats with inner turbine mechanism, with an outer diameter of 148 mm in compliance with the rules of the International Swimming Federation (FINA).

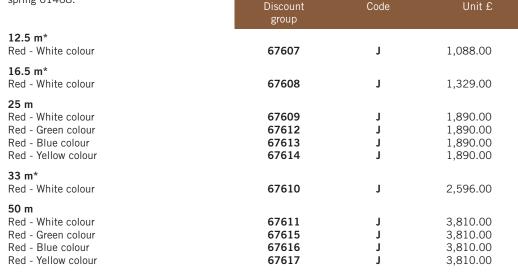
25 m	group	Code	Oill £
Red - White colour Red - Green colour Red - Blue colour Red - Yellow colour	67599 67601 67602 67603	J J	3,505.00 3,505.00 3,505.00 3.505.00
50 m Red - White colour Red - Green colour	67600	i	6,609.00
	67604	I	6,609.00
Red - Blue colour	67605	J	6,609.00
Red - Yellow colour	67606		6,609.00





Sydney model

Range made up of lane ropes with and outer diameter of 148 mm in compliance with the rules of the International Swimming Federation (FINA) and the FR 3 regulations on swimming pools for the Olympic Games or World Championships. Supplied with floats, 6mm stainless steel rope (code 28808), tensioner 00208 and spring 01468.



^{*} Available in other colours (blue, green, yellow)



Rome model with polyester cord

Supplied assembled with floats, 7mm polyester rope (00210), tensioner 00209 and hook 00207

	group	Code	Unit £
12.5 m White	67618	J	328.00
16.5 m White	67619	J	396.00
25 m Red - White	67620	J	493.00
33 m Red - White	67621	J	669.00
50 m Red - White	67622	J	933.00

^{*} Available in other colours (blue, green, yellow)

It is possible to supply any length, colour combination and rope.



LANE ROPES



Moscow model with polyester cord



Supplied assembled with floats, 7mm polyester rope (00210), tensioner 00209 and hook 00207

group	Code	UIIIL £
J	67623	549.00
J	67624	662.00
J	67625	919.00
J	67626	1,281.00
J	67627	1,808.00
		group J 67623 J 67624 J 67625 J 67626

^{*} Available in other colours (blue, green, yellow)

FLOATS



BCN 03 model



	group	0000	Omt 2
Colour white	J	28204	22.00
green	J	28425	22.00
blue	J	28423	22.00
red	J	28424	22.00



Rome model



	group	Code	Unit £
Colour white	J	00149	2.00
orange	J	00150	2.00
blue	J	00151	2.00
red	J	00152	2.00



Sydney model



	group		
Colour white	J	54032	2.00
yellow	J	54031	2.00
blue	J	54028	2.00
red	J	54029	2.00
green	J	54030	2.00



Moscow model

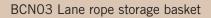


	group		
Colour white	J	00161	2.00
orange	J	00162	2.00
blue	J	00163	2.00
red	J	00164	2.00



LANE ROPE STORAGE EQUIPMENT









A new trolley designed to transport and store the BCN03 Lane ropes after use in the swimming pool. The BCN03 lane rope storage basket is manufactured of AISI-316 Stainless Steel and includes a PVC bag for collecting excess water from the float lines. Due to the bag's bottom outlets, it is emptied in a controlled manner with no water spillage. The trolley has four castor wheels for maximum mobility. Two of these fitted with brakes. It can store a lane rope up to 50 m long (or 2 of 25) and can be used for all lane rope models.

		group		
		J	28623	3,523.00
2000	840			



Lane rope roller



Made in Stainless Steel AISI-304, fitted with a large wheel for operation. It is mounted on 4 castor wheels for easy handling. Two of these are fitted with brakes.

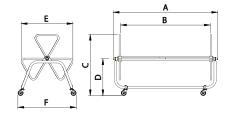
	group		
Width 1.2 m	J	58860	1,915.00
Width 1.8 m	J	58859	2,330.00

NUMBER OF LANE ROPE COLLECTED

Model	1.2 m		1.8 m			
Wiodei	25 m	33 m	50 m	25 m	33 m	50 m
ROMA	8	6	4	12	9	6
SYDNEY	2	1	1	3	2	1
MOSCOW	4	2	2	6	3	3

Code	9	Α	В	С	D	E	F
5886	0	1415	1125	1165	690	970	1085
5885	9	2015	1725	1165	690	970	1065

3/4" purge valve





Under deck lane rope storage system



Varioplay Underdeck storage System, 4 inch = internal diameter of 150mm, 6 inch = Internal diameter 210mm. Splash proof hinged lid that can be closed with a key.

	Discount group	Code	Unit £
Underdeck Storage System 4 Inch	1	PL10200110	poa
Underdeck Storage System 6 inch		PL10200120	poa



Storage Boxes



Storage Box for soring all sorts of pool lanes. The drip trays are equipped with a tapping point so that the pool water can easily run out. The containers are made from plastic.

	group		
	group		
Storage Box 80 x 60 x 105cm 4 inch 25m lane	J	PL10200160	poa
Storage Box 120 x 120 x 87cm 4 inch - 50m lane			
or 6 inch -25m lane	J	PL10200180	poa
Storage Box 154 x 120 x 120cm 6 inch - 50m lane	J	PL10200190	poa

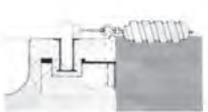


LANE ROPE ACCESSORIES

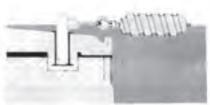
Zurich/Wiesbaden installation diagram

Finnish type installation diagram

Standard installation diagram







Anchor code 00142 Lane rope support code 00140



Anchoring cup

code 09206 code 09207 code 00205 code 00206



Lane rope anchor

Made in Stainless Steel AISI-316. To use with anchoring fixture 00141 and 00142.

Discount group	Code	Unit £
J	00140	58.00



Concrete anchoring cup with central rod

Made in Stainless Steel AISI-316.

For concrete pool

Discount group	Code	Unit £
J	09206	66.00



Anchoring cup with central rod

Made in Stainless Steel AISI-316.

For pre-fabricated pools with flange, gasket and screws

 scount group	Code	Unit £
 J	09207	88.00



Retractable anchoring cup

Made in Stainless Steel AISI-316.

For concrete pool

Discount group	Code	Unit £
J	00205	86.00



COMPETITION POOL ACCESSORIES

LANE ROPE ACCESSORIES



Retractable anchoring cup



Made in Stainless Steel AISI-316.

For prefabricated pools with flange, gaskets and screws

Discount group	Code	Unit £
J	00206	112.00

Lane rope ratchet



Chrome plated brass.

Discount group	Code	Unit £
J	00208	152.00

Lane rope ratchet



Made in Stainless Steel AISI-316.

Discount group	Code	Unit £
J	00209	54.00

Lane rope spring



Made in Stainless Steel AISI-304 with plate to attach cable.

Discount group	Code	Unit £
J	01468	94.00



Lane rope hook



Made in Stainless Steel AISI-304.

Discount group	Code	Unit £
J	00207	14.00



Cords and cables



Float-line rope in polyester Ø 7 mm (sold in 110 metre lengths only)
Float-line rope in Stainless Steel AISI-316 Ø 4 x 6 mm with plastic coating DIN 3055 sold in 100 metre rolls only

J	00210	55.00
J	00211	345.00

Code

Discount group



INDICATORS



False start indicators



Comprises 2 posts in S.S. AISI-316 (one with pully and quick release cord). Height 1.8 m. Anchoring socket not included.

Discount

Code

Unit £

	group	0000	Sille 2
False start posts:			
- Pool width up to 21 m Ø 43 mm pipe for use with anchoring sockets 00141 and 00142	J	19950	451.00
- Pool width over 21 m Ø 48 mm pipe for use with anchoring sockets 19960 and 19961	J	19951	515.00
Polyester cord and float sets: 12.5 m length 21 m length) J	19954L125 19954L210	217.00 365.00

Please indicate pool width when placing your order.



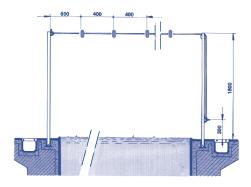
Backstroke turn indicators

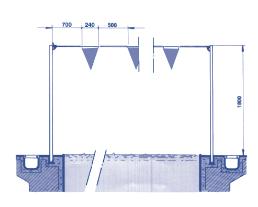


Comprises 4 posts in Stainless Steel AISI-316. Height 1.8 m. Anchoring sockets not included.

	group	Code	Unit £
Backstroke turn indicator posts			
- Pool width up to 21 m Ø 43 mm pipe for use with anchoring sockets 00141 and 00142	J	19952	658.00
- Pool width over 21 m Ø 48 mm pipe for use with anchoring sockets 19960 and 19961	J	19953	787.00
Polyester cord and bunting sets: 12.5 m length 21 m length	J J	19955L125 19955L210	397.00 667.00

Please indicate pool width when placing your order.





TURNING PANELS



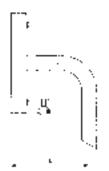
Turning panels



In Stainless Steel AISI-316 with plastic lattice screen. Height 300 mm. Fixing support (00139) is not in-

Lane	width	2 m
Lane	width	2.5 m

00137 00138	854.00 980.00
	00137 00138



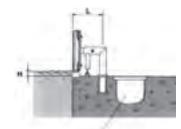
Fixing support for turning panels



In Stainless Steel AISI-316 for use with anchoring sockets 00141 and 00142. Please indicate dimension "H",

"L" and type of overflow when ordering.

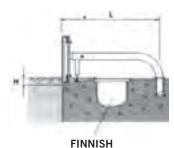
Discount group	Code	Unit £
J	00139	poa



ANCHORING DETAILS WHEN MEASUREMENT «L» IS LESS THAN 500 mm.







ANCHORING DETAILS WHEN MEASUREMENT «L» IS OVER 500 mm.





ANCHORING SOCKETS



Horizontal flange anchoring sockets



Zurich-Wiesbaden. In S.S. AISI-316.

For	pipe	Ø	43	mm
For	pipe	Ø	48	mm

Discount group	Code	Unit £
1	00141	111.00
1	19960	136.00



Angled flange anchoring socket



Finnish. In S.S. AISI-316.

For	pipe	Ø	43	mm
For	pipe	Ø	48	mm

Discount group	Code	Unit £
)	00142	113.00
J	19961	150.00



Anchoring socket with locking bolts



With bolts. In S.S. AISI-316.

Discount group	Code	Unit £
1	00143	168.00





248 • PVC-U fittings

261 • PVC-U valves

264 • PTFE tape, PVC cleaner & solvent cement

265 • PVC-U & ABS pipe





PVC-U FITTINGS

Elbow 90° plain metric



Size	Discount group	Code	Unit £
16 mm	L	11655	1.40
20 mm	L	01712	1.40
25 mm	L	01713	1.80
32 mm	L	01714	2.70
40 mm	L	01715	3.70
50 mm	L	01716	5.40
63 mm	L	01717	7.90
75 mm	L	01718	15.20
90 mm	L	01719	24.70
110 mm	L	01720	43.60
125 mm	L	01721	63.30
140 mm	L	01722	108.30
160 mm	L	01723	126.40
200 mm	L	01724	214.50
225 mm	L	01725	312.20
250 mm	L	01726	617.80
315 mm	L	01727	1,060.20

Elbow 90° plain Imperial



Size	Discount group	Code	Unit £
1/2"	L	07137	1.50
3/4"	L	07138	1.90
1"	L	07139	2.80
11/4"	L	07140	3.90
1½"	L	07141	5.70
2"	L	07142	8.60
2½"	L	01718	15.20
3"	L	07144	26.90
4"	L	07145	50.10
5"	L	01722	108.30

Elbow 90° plain X BSP female thread metric



Size	Discount group	Code	Unit £
20 mm X ½"	L	01728	2.90
25 mm X ¾"	L	01729	3.30
32 mm X 1"	L	01730	4.40
40 mm X 11/4"	L	01731	5.80
50 mm X 1½"	L	01732	8.60
63 mm X 2"	L	01733	12.10
75 mm X 2½"	L	22596	37.20
90 mm X 3"	L	22597	55.80
110 mm X 4"	L	22598	85.80

Elbow 90° plain X BSP female thread imperial



Size	Discount group	Code	Unit £
½" X 1½"	L	07146	3.00
3⁄4" X 3⁄4"	L	07147	3.50
1" X 1"	L	07148	4.60
1¼" X 1¼"	L	07149	6.10
1½" X 1½"	L	07150	9.10
2" X 2"	L	07151	12.70
21/2"	L	01718	15.20

Elbow 90° BSP female thread



Size	Discount group	Code	Unit £
1/2"	L	01734	3.30
3/4"	L	01735	3.90
1"	L	01736	5.30
11/4"	L	01737	7.50
1½"	L	01738	10.50
2"	L	01739	14.70
21/2"	L	22587	39.70
3"	L	22588	58.90
4"	L	22589	96.70

Elbow 45° plain metric



Size	Discount group	Code	Unit £
16 mm	L	16307	1.90
20 mm	L	01746	1.90
25 mm	L	01747	2.50
32 mm	L	01748	3.30
40 mm	L	01749	4.40
50 mm	L	01750	5.70
63 mm	L	01751	8.90
75 mm	L	01752	15.70
90 mm	L	01753	23.50
110 mm	L	01754	39.60
125 mm	L	01755	57.60
140 mm	L	01756	92.70
160 mm	L	01757	110.60
200 mm	L	01758	169.70
225 mm	L	01759	268.10
250 mm	L	01760	494.40
315 mm	L	01761	939.60

PVC-U FITTINGS

Elbow 45° plain imperial



Size	Discount group	Code	Unit £
1/2"	L	07152	2.00
3/4"	L	07153	2.60
1"	L	07154	3.50
11/4"	L	07155	4.60
1½"	L	07156	6.30
2"	L	07157	9.10
2½"	L	01752	15.70
3"	L	07159	26.30
4"	L	07160	44.40
5"	L	01756	92.70

Elbow 45° plain X BSP female thread metric



Size	Discount group	Code	Unit £
20 mm X ½"	L	01762	3.60
25 mm X ¾"	L	01763	4.00
32 mm X 1"	L	01764	5.20
40 mm X 11/4"	L	01765	6.70
50 mm X 1½"	L	01766	10.00
63 mm X 2"	L	01767	14.20
75 mm X 2½"	L	22599	47.80
90 mm X 3"	L	22600	61.60
110 mm X 4"	L	22601	109.50

Elbow 45° plain X BSP female thread imperial



Size	Discount group	Code	Unit £
½" X ½"	L	07161	3.80
¾" X ¾"	L	07162	4.20
1" X 1"	L	07163	5.50
1¼" X 1¼"	L	07164	7.00
1½" X 1½"	L	07165	10.50
2" X 2"	L	07166	14.90

Elbow 45° BSP female thread



Size	Discount group	Code	Unit £
1/2"	L	01768	4.00
3/4"	L	01769	4.70
1"	L	01770	6.10
11/4"	L	01771	7.70
1½"	L	01772	11.70
2"	L	01773	16.50
21/2"	L	22590	60.30
3"	L	22591	78.90
4"	L	22592	150.10

Bend 90° plain



Size	Discount group	Code	Unit £
20 mm	L	01967	4.50
25 mm	L	01968	5.70
32 mm	L	01969	8.10
40 mm	L	01970	10.60
50 mm	L	01971	16.20
63 mm	L	01972	25.00
75 mm	L	01973	46.30
90 mm	L	05331	103.00
110 mm	L	05332	183.30
125 mm	L	05333	363.20
140 mm	L	05334	382.70
160 mm	L	05335	438.70
200 mm	L	05336	1,003.20
225 mm	L	05337	1,109.30
250 mm	L	05338	1,210.40
315 mm	L	05339	2,438.40
400 mm	L	05340	3,114.80

Tee 90° plain metric



Size	Discount group	Code	Unit £
16 mm	L	16308	1.70
20 mm	L	01780	1.70
25 mm	L	01781	2.30
32 mm	L	01782	3.20
40 mm	L	01783	5.30
50 mm	L	01784	7.40
63 mm	L	01785	10.20
75 mm	L	01786	21.30
90 mm	L	01787	38.70
110 mm	L	01788	55.60
125 mm	L	01789	97.20
140 mm	L	01790	136.40
160 mm	L	01791	161.10
200 mm	L	01792	279.60
225 mm	L	01793	358.70
250 mm	L	01794	684.50
315 mm	L	01795	1,253.20
400 mm	L	05328	3,942.60



PVC-U FITTINGS

Tee 90° plain imperial



Size	Discount group	Code	Unit £
1/2"	L	07167	1.90
3/4"	L	07168	2.40
1"	L	07169	3.40
11/4"	L	07170	5.50
1½"	L	07171	7.90
2"	L	07172	11.00
21/2"	L	01786	21.30
3"	L	07174	42.70
4"	L	07175	62.30
5"	L	01790	136.40

Reducing Tee 90° plain



Size	Discount group	Code	Unit £
25 X 20 mm	L	01814	2.80
32 X 25 mm	L	01815	3.80
32 X 20 mm	L	01816	3.80
40 X 32 mm	L	01817	6.50
40 X 25 mm	L	01818	6.50
40 X 20 mm	L	01819	6.50
50 X 40 mm	L	01820	8.50
50 X 32 mm	L	01821	8.50
50 X 25 mm	L	01822	8.50
50 X 20 mm	L	01823	8.50
63 X 50 mm	L	01824	14.10
63 X 40 mm	L	01825	14.10
63 X 32 mm	L	01826	14.10
63 X 25 mm	L	01827	14.10
63 X 20 mm	L	01828	14.10
75 X 63 mm	L	01829	23.90
75 X 50 mm	L	01830	23.90
75 X 40 mm	L	01831	23.90
75 X 32 mm	L	01832	23.90
90 X 75 mm	L	01833	42.20
90 X 63 mm	L	01834	42.20
90 X 50 mm	L	01835	42.20
90 X 40 mm	L	01836	42.20
110 X 90 mm	L	01837	60.40
110 X 75 mm	L	01838	60.40
110 X 63 mm	L	01839	60.40
110 X 50 mm	L	01840	60.40
125 X 110 mm	L	01841	100.20
125 X 90 mm	L	01842	100.20
125 X 75 mm	L	01843	100.20
125 X 63 mm	L	01844	100.20
140 X 125 mm	L	01845	149.50
140 X 110 mm	L	01846	149.50
140 X 90 mm	L	01847	149.50
140 X 75 mm	L	01848	149.50
160 X 140 mm	L	07688	180.10
160 X 125 mm	L	07689	180.10
160 X 110 mm	L	07690	177.90
160 X 90 mm	L	07691	177.90

Tee 90° plain X BSP female thread metric



Size	Discount group	Code	Unit £
20 mm X ½"	L	01796	3.60
25 mm X ¾"	L	01797	4.10
32 mm X 1"	L	01798	5.20
40 mm X 1¼"	L	01799	8.40
50 mm X 1½"	L	01800	11.50
63 mm X 2"	L	01801	18.70
75 mm X 2½"	L	22602	42.90
90 mm X 3"	L	22603	64.20
110 mm X 4"	L	22604	105.80

Tee 90° plain X BSP female thread imperial



Size	Discount group	Code	Unit £
½" X ½"	L	07176	3.80
3⁄4" X 3⁄4"	L	07177	4.30
1" X 1"	L	07178	5.50
11/4" X 11/4"	L	07179	8.80
1½" X 1½"	L	07180	12.10
2" X 2"	L	07181	19.60

Tee 90° female thread



Size	Discount group	Code	Unit £
1/2"	L	01802	5.20
3/4"	L	01803	5.70
1"	L	01804	7.00
11/4"	L	01805	11.00
1½"	L	01806	15.30
2"	L	01807	24.40
2½"	L	22593	49.40
3"	L	22594	65.50
4"	L	22595	119.80

Tee 45° plain



Size	Discount group	Code	Unit £
20 mm	L	22583	8.20
25 mm	L	22584	9.50
32 mm	L	22585	10.60
40 mm	L	22586	14.40
50 mm	L	20155	15.10
63 mm	L	20156	21.60
75 mm	L	32804	82.90
90 mm	L	32805	136.40
100 mm	L	32806	276.10

Cross plain



Size	Discount group	Code	Unit £
20 mm	L	20143	3.70
25 mm	L	20144	4.60
32 mm	L	20145	6.70
40 mm	L	20146	11.00
50 mm	L	02235	14.80
63 mm	L	02236	20.90
90 mm	L	22581	109.40
110 mm	L	22582	174.10

Socket plain imperial



Size	Discount group	Code	Unit £
1/2"	L	07182	1.70
3/4"	L	07183	2.00
1"	L	07184	2.40
11/4"	L	07185	3.50
1½"	L	07186	4.50
2"	L	07187	6.60
2½"	L	01878	12.40
3"	L	07189	17.00
4"	L	07190	28.10
5"	L	01882	58.60

Socket plain metric



Size	Discount group	Code	Unit £
16 mm	L	16309	1.70
20 mm	L	01872	1.70
25 mm	L	01873	1.90
32 mm	L	01874	2.30
40 mm	L	01875	3.30
50 mm	L	01876	4.30
63 mm	L	01877	6.30
75 mm	L	01878	12.40
90 mm	L	01879	15.60
110 mm	L	01880	25.80
125 mm	L	01881	40.30
140 mm	L	01882	58.60
160 mm	L	01883	79.30
200 mm	L	01884	120.60
225 mm	L	01885	206.70
250 mm	L	01886	355.30
315 mm	L	01887	512.10
400 mm	L	05329	1,014.00

Adaptor socket plain X BSP female thread metric



Size	Discount group	Code	Unit £
16 mm X ³ / ₈ "	L	01888	2.90
20 mm X ½"	L	01889	2.90
25 mm X ¾"	L	01890	3.30
32 mm X 1"	L	01891	3.70
40 mm X 11/4"	L	01892	4.80
50 mm X 1½"	L	01893	6.20
63 mm X 2"	L	01894	8.80
75 mm X 2½"	L	01895	19.20
90 mm X 3"	L	01896	29.00
110 mm X 4"	L	01897	46.10

Metric to Imperial Solvent socket



Size	Discount group	Code	Unit £
20 mm X ½"	L	07229	1.70
25 mm X ¾"	L	07230	2.00
32 mm X 1"	L	07231	2.40
40 mm X 11/4"	L	07232	3.50
50 mm X 1½"	L	07233	4.50
63 mm X 2"	L	07234	6.60
75 mm X 2½"	L	01878	12.40
90 mm X 3"	L	07236	17.50
110 mm X 4"	L	07237	28.10

Adaptor socket plain X BSP female thread imperial



Size	Discount group	Code	Unit £
½" X ½"	L	07191	3.00
3⁄4" X 3⁄4"	L	07192	3.50
1" X 1"	L	07193	3.80
1¼" X 1¼"	L	07194	5.10
1½" X 1½"	L	07195	6.60
2" X 2"	L	07196	9.30
2½" X 2½"	L	01895	19.20

Threaded socket BSP female thread



Size	Discount group	Code	Unit £
³ / ₈ "	L	01898	3.40
1/2"	L	01899	3.40
3/4"	L	01900	4.00
1"	L	01901	4.80
11/4"	L	01902	6.20
1½"	L	01903	8.40
2"	L	01904	11.20
21/2"	L	01905	27.10
3"	L	01906	38.10
4"	L	01907	59.20



Reducing bush plain metric



Size	Discount group	Code	Unit £
20 X 16 mm	L	01914	1.10
25 X 20 mm	L	01915	1.20
32 X 25 mm	L	01916	1.30
32 X 20 mm	L	01917	1.70
40 X 32 mm	L	01918	2.00
40 X 25 mm	L	01919	2.50
40 X 20 mm	L	01920	2.50
50 X 40 mm	L	01921	2.40
50 X 32 mm	L	01922	3.40
50 X 25 mm	L	01923	3.40
50 X 20 mm	L	01924	3.40
63 X 50 mm	L	01925	3.20
63 X 40 mm	L	01926	4.50
63 X 32 mm	L	01927	4.50
75 X 63 mm	L	01928	5.70
75 X 50 mm	L	18685	6.70
75 X 40 mm	L	18686	6.70
90 X 75 mm	L	01929	9.30
90 X 63 mm	L	18687	10.20
90 X 50 mm	L	18688	10.20
110 X 90 mm	L	01930	17.10
110 X 75 mm	L	18689	19.40
110 X 63 mm	L	18690	19.60
125 X 110 mm	L	01931	22.20
125 X 90 mm	L	18691	25.70
125 X 75 mm	L	20142	26.20
140 X 125 mm	L	01932	30.10
140 X 110 mm	L	18692	33.80
160 X 140 mm	L	01933	39.40
160 X 110 mm	L	18693	44.50
200 X 180 mm	L	01934	76.40
200 X 160 mm	L	01935	76.20
225 X 200 mm	L	01936	83.40
225 X 160 mm	L	01937	102.50
250 X 225 mm	L	01938	151.10
250 X 200 mm	L	01939	152.80
315 X 250 mm	L	01940	447.90
315 X 225 mm	L	01941	462.40
400 X 315 mm	L	05330	626.40

Reducing bush plain imperial



Size	Discount group	Code	Unit £
3⁄4" X 1⁄2"	L	07198	1.30
1" X ¾"	L	07199	1.30
1" X ½"	L	07200	1.90
1¼" X 1"	L	07201	2.10
11/4" X 3/4"	L	07202	2.70
1½" X 1¼"	L	07203	2.50
1½" X 1"	L	07204	3.60
2" X 1½"	L	07205	3.40
2½" X 2"	L	07206	6.00
3" X 2½"	L	07207	9.80
4" X 3"	L	07208	18.80

Conical reducer plain



Size	Discount group	Code	Unit £
32 - 25 X 25 mm	L	01974	2.20
32 - 25 X 20 mm	L	01975	2.20
40 - 32 X 32 mm	L	01976	2.70
40 - 32 X 25 mm	L	01977	2.70
40 - 32 X 20 mm	L	01978	2.70
50 - 40 X 40 mm	L	01979	3.90
50 - 40 X 32 mm	L	01980	3.90
50 - 40 X 25 mm	L	01981	3.90
50 - 40 X 20 mm	L	01982	3.90
63 - 50 X 50 mm	L	01983	6.10
63 - 50 X 40 mm	L	01984	6.10
63 - 50 X 32 mm	L	01985	6.10
63 - 50 X 25 mm	L	01986	6.10
63 - 50 X 20 mm	L	01987	6.10
75 - 63 X 63 mm	L	01988	9.80
75 - 63 X 50 mm	L	01989	9.80
75 - 63 X 40 mm	L	01990	9.80
75 - 63 X 32 mm	L	01991	9.80
90 - 75 X 75 mm	L	01992	12.70
90 - 75 X 63 mm	L	01993	12.70
90 - 75 X 50 mm	L	01994	12.70
90 - 75 X 40 mm	L	01995	12.70
110 - 90 X 90 mm	L	01996	23.30
110 - 90 X 75 mm	L	01997	23.30
110 - 90 X 63 mm	L	01998	23.30
110 - 90 X 50 mm	L	01999	23.30
125 - 110 X 90 mm	L	02000	29.40
125 - 110 X 75 mm	L	02001	29.40
125 - 110 X 63 mm	L	02002	29.40
140 - 125 X 110 mm	L	02003	38.00
140 - 125 X 90 mm	L	02004	38.00
140 - 125 X 75 mm	L	02005	38.00
160 - 140 X 125 mm	L	02006	53.40
160 - 140 X 110 mm	L	02007	53.40
160 - 140 X 90 mm	L	02008	52.90
200 - 180 X 140 mm	L	02009	84.50
200 - 180 X 125 mm	L	02010	84.50
200 - 180 X 110 mm	L	02011	84.50
225 - 200 X 160 mm	L	02012	115.60
225 - 200 X 140 mm	L	02013	115.60
225 - 200 X 125 mm	L	02014	115.60
250 - 225 X 200 mm	L	02015	167.60
250 - 225 X 160 mm	L	02016	167.60
250 - 225 X 140 mm	L	02017	167.60
315 - 280 X 200 mm	L	02018	657.70
315 - 280 X 160 mm	L	02019	657.70

Flange adaptor (Stub flange) plain metric



Size	Discount group	Code	Unit £
20 mm	L	07692	3.00
25 mm	L	07693	3.60
32 mm	L	07694	3.90
40 mm	L	07695	5.00
50 mm	L	02020	6.10
63 mm	L	02021	7.50
75 mm	L	02022	10.30
90 mm	L	02023	14.70
110 mm	L	02024	19.40
125 mm	L	02025	24.30
140 mm	L	02026	32.40
160 mm	L	02027	44.80
200 mm	L	02028	81.90
225 mm	L	02029	97.40
250 mm	L	02030	198.20
315 mm	L	02031	302.10
400 mm	L	05341	729.50
500 mm	L	05342	803.20

Flange gasket metric/imperial



Size	Discount group	Code	Unit £
20 mm	L	07700	1.70
25 mm	L	07701	1.90
32 mm	L	07702	2.00
40 mm	L	07703	2.30
50 mm / 1½"	L	02061	2.70
63 mm / 2"	L	02062	2.90
75 mm / 2½"	L	02063	3.90
90 mm / 3"	L	02064	4.20
110 mm / 4"	L	02065	5.40
125 mm	L	02066	6.40
140 mm / 5"	L	02067	7.10
160 mm / 6"	L	02068	7.90
200 mm	L	02069	10.00
225 mm / 8"	L	02070	21.50
250 mm	L	02071	33.40
315 mm	L	02072	53.70
400 mm	L	05345	182.60
500 mm	L	05346	214.00

Flange adaptor (stub flange) plain imperial



Size	Discount group	Code	Unit £
2"	L	07804	7.90
21/2"	L	02022	10.30
3"	L	07218	16.30
4"	L	07219	20.40
5"	L	02026	32.40
6"	L	07221	49.40
8"	L	07222	107.40

Flange adaptor stub and backing ring



Size	Discount group	Code	Unit £
20 mm	L	22575	10.20
25 mm	L	22576	13.40
32 mm	L	22577	16.00
40 mm	L	22578	20.90
50 mm	L	22579	24.60
63 mm	L	22580	30.50
75 mm	L	02226	32.10
90 mm	L	02227	37.10
110 mm	L	02228	45.30
125 mm	L	02229	56.70
140 mm x 125 mm	L	02234	69.90
140 mm	L	02230	71.50
160 mm	L	02231	97.40
200 mm	L	02232	124.90
225 mm	L	02233	148.50

Flange (Backing ring) plain metric/imperial



Size	Discount group	Code	Unit £
20 mm	L	07696	7.80
25 mm	L	07697	8.90
32 mm	L	07698	9.90
40 mm	L	07699	11.40
50 mm / 1½"	L	02032	12.50
63 mm / 2"	L	02033	13.80
75 mm / 2½"	L	02034	18.30
90 mm / 3"	L	02035	19.50
110 mm / 4"	L	02036	25.50
125 mm	L	02037	36.60
140 mm / 5"	L	02038	41.60
140 X 125 mm	L	02039	45.40
160 mm / 6"	L	02040	50.30
200 mm	L	02041	60.70
225 mm / 8"	L	02042	69.10
225 X 200 mm	L	09039	80.20
250 mm	L	02043	172.70
315 mm	L	02044	239.20
400 mm	L	05343	521.40
500 mm	L	05344	696.70



Screw, nut & washers



Size	Discount group	Code	Unit £
M12 X 60 mm	L	16061	3.00
M16 X 70 mm	L	02437	4.90
M16 X 80 mm	L	02438	5.10
M16 X 90 mm	L	02439	5.70
M16 X 100 mm	L	66775	6.60
M16 X 110 mm	L	66776	6.90
M16 X 120 mm	L	02440	7.40
M16 X 130 mm	L	02441	6.90
M16 X 140 mm	L	02442	7.60
M16 X 150 mm	L	02443	8.10
M16 X 160 mm	L	02444	8.00
M16 X 170 mm	L	02445	8.50
M16 X 200 mm	L	07718	10.50
M16 X 220 mm	L	07719	10.70
M16 X 240 mm	L	07720	11.70
M20 X 90 mm	L	02446	9.20
M20 X 110 mm	L	02447	10.60
M20 X 120 mm	L	66777	12.90
M20 X 160 mm	L	02448	12.90
M20 X 180 mm	L	02449	14.00
M20 X 190 mm	L	02450	10.90
M20 X 200 mm	L	20263	14.90
M20 X 210 mm	L	02451	15.90
M20 X 230 mm	L	02452	16.90
M20 X 270 mm	L	07721	22.10
M20 X 310 mm	L	07722	23.80
M20 X 340 mm	L	07723	42.70

	6		4	00
	Fig. 81*	Fig. 52	Fig. 54	Fig. 65
	Butterfly valve	Flange set	Sight glass	Swing check valve
D20, D25, D32		M 12 x 60		
D40, D50		M 16 x 80		
D63	M 16 x 120	M 16 x 80		
D75	M 16 x 140	M 16 x 80	M 16 x 150	M 16 x 120
D90	M 16 x 150	M 16 x 90	M 16 x 170	M 16 x 120
D110	M 16 x 160	M 16 x 100	M 16 x 200	M 16 x 120
D125	M 16 x 170	M 16 x 120	M 16 x 220	M 16 x 130
D140	M 16 x 170	M 16 x 120	M 16 x 240	M 16 x 130
D160	M 20 x 200	M 20 x 320	M 20 x 270	M 20 x 160
D200	M 20 x 210	M 20 x 340	M 20 x 310	M 20 x 160
D225	M 20 x 230	M 20 x 340	M 20 x 340	M 20 x 180
D250	M 20 x 270			M 20 x 210
D280	M 20 x 270			-
D315	M 20 x 310			M 20 x 230

^{*} Valid for Industrial, Standard and Classic Series

Cap plain metric



Size	Discount group	Code	Unit £
16 mm	L	01942	1.20
20 mm	L	01943	1.30
25 mm	L	01944	1.50
32 mm	L	01945	2.00
40 mm	L	01946	3.10
50 mm	L	01947	4.40
63 mm	L	01948	6.10
75 mm	L	01949	11.60
90 mm	L	01950	18.00
110 mm	L	01951	36.20
125 mm	L	01952	50.80
140 mm	L	01953	66.30
160 mm	L	01954	76.70
200 mm	L	01955	95.40
225 mm	L	01956	181.00
250 mm	L	15776	345.80
315 mm	L	15777	556.70

Cap plain imperial



Size	Discount group	Code	Unit £
1/2"	L	07209	1.30
3/4"	L	07210	1.50
1"	L	07211	2.10
11/4"	L	07212	3.20
1½"	L	07213	4.60
2"	L	07214	6.40
2½"	L	01949	11.60
3"	L	07216	19.80
4"	L	07803	40.00
5"	L	01953	66.30

Cap BSP female thread



Size	Discount group	Code	Unit £
3/8"	L	01957	2.60
1/2"	L	01958	2.80
3/4"	L	01959	3.00
1"	L	01960	3.70
11/4"	L	01961	5.20
1½"	L	01962	6.70
2"	L	01963	9.00
21/2"	L	01964	21.30
3"	L	01965	34.00
4"	L	01966	47.50

Adaptor bush plain x BSP male thread metric



Size	Discount group	Code	Unit £
20 X ½"	L	02102	2.20
25 X ¾"	L	02103	2.40
32 X 1"	L	02104	2.80
40 X 1¼"	L	02105	3.70
50 X 1½"	L	02106	4.40
63 X 2"	L	02107	6.80
75 X 2½"	L	02108	12.20
90 X 3"	L	02109	25.90
110 X 4"	L	02110	37.20

Adaptor bush plain X BSP male thread imperial



Size	Discount group	Code	Unit £
½" X ½"	L	07246	2.30
3/4" X 3/4"	L	07247	2.50
1" X 1"	L	07248	3.00
1¼" X 1¼"	L	07249	3.90
1½" X 1½"	L	07250	4.60
2" X 2"	L	07251	6.80
2½" X 2½"	L	02108	12.20
3" X 3"	L	07253	25.90

Adaptor nipple plain x BSP male thread metric



Size	group	Code	Unit £
16 - 12 mm X ³ / ₈ "	L	02073	1.70
20 - 16 mm X ½"	L	02074	1.90
20 - 16 mm X ³ / ₈ "	L	02075	1.90
25 - 20 mm X ¾"	L	02076	2.20
25 - 20 mm X ½"	L	02077	2.20
25 - 20 mm X ³ / ₈ "	L	02078	2.20
32 - 25 mm X 1"	L	02079	2.50
32 - 25 mm X ¾"	L	02080	2.50
32 - 25 mm X ½"	L	02081	2.50
40 - 32 mm X 1¼"	L	02082	3.30
40 - 32 mm X 1"	L	02083	3.30
40 - 32 mm X ¾"	L	02084	3.30
50 - 40 mm X 1½"	L	02085	4.20
50 - 40 mm X 1¼"	L	02086	4.30
50 - 40 mm X 1"	L	02087	4.30
63 - 50 mm X 2"	L	02088	6.90
63 - 50 mm X 1½"	L	02089	7.00
63 - 50 mm X 1¼"	L	02090	7.00
75 - 63 mm X 2½"	L	02091	11.10
75 - 63 mm X 2"	L	02092	11.10
75 - 63 mm X 1½"	L	02093	11.10
90 - 75 mm X 3"	L	02094	16.00
90 - 75 mm X 2½"	L	02095	16.00
90 - 75 mm X 2"	L	02096	16.00
110 - 90 mm X 4"	L	02097	35.20
110 - 90 mm X 3"	L	02098	35.20
110 - 90 mm X 2½"	L	02099	35.20



Adaptor nipple plain X BSP male thread imperial



Size	Discount group	Code	Unit £
½"- ³/ ₈ " X ½"	L	07238	2.00
¾"- 1½" X ¾"	L	07239	2.30
1"- ¾" X 1"	L	07240	2.60
1¼"- 1" X 1¼"	L	07241	3.50
1½"- 1¼" X 1½"	L	07242	4.40
2"- 1½" X 2"	L	07243	6.90
2½"- 2" X 2½"	L	02091	11.10
3"- 2½" X 3"	L	07245	16.00

Adaptor nipple plain x BSP female thread



Size	Discount group	Code	Unit £
20 - 16 mm X ¾"	L	02243	3.10
20 - 16 mm X ½"	L	02244	3.10
20 - 16 mm X ³ / ₈ "	L	02245	3.10
20 - 16 mm X ¼"	L	02246	3.10
25 - 20 mm X 1"	L	02247	4.00
25 - 20 mm X ¾"	L	02248	3.60
25 - 20 mm X ½"	L	02249	3.60
32 - 25 mm X 1¼"	L	02250	5.30
32 - 25 mm X 1"	L	02251	4.90
32 - 25 mm X ¾"	L	02252	4.90
32 - 25 mm X ½"	L	24822	4.90
40 - 32 mm X 1½"	L	02253	7.30
40 - 32 mm X 1¼"	L	02254	6.20
40 - 32 mm X 1"	L	02255	6.20
50 - 40 mm X 2"	L	02256	10.90
50 - 40 mm X 1½"	L	02257	8.80
50 - 40 mm X 1¼"	L	02258	8.80
63 - 50 mm X 2½"	L	02259	17.00
63 - 50 mm X 2"	L	02260	12.60
63 - 50 mm X 1½"	L	02261	12.60
75 - 63 mm X 3"	L	02262	24.20
75 - 63 mm X 2½"	L	02263	18.50
75 - 63 mm X 2"	L	02264	18.50
90 - 75 mm X 4"	L	02265	33.50
90 - 75 mm X 3"	L	02266	31.20
90 - 75 mm X 2½"	L	02267	31.20
110 - 90 mm X 4"	L	02268	42.50
110 - 90 mm X 3"	L	02269	42.50

Reducer BSP male X female thread



Size	Discount group	Code	Unit £
³/ ₈ " X ½"	L	02270	3.30
½" X ¾"	L	02271	3.40
½" X ³ / ₈ "	L	02272	3.20
¾" X 1"	L	02273	4.20
3⁄4" X 1⁄2"	L	02274	3.40
3⁄4" X 3/8"	L	02275	3.50
1" X 1¼"	L	02276	5.00
1" X ¾"	L	02277	3.90
1" X ½"	L	02278	3.90
1" X ³ / ₈ "	L	02279	4.20
1¼" X 1½"	L	02280	7.10
1¼" X 1"	L	02281	4.80
1¼" X ¾"	L	02282	5.00
1¼" X ½"	L	02283	5.00
1½" X 2"	L	02284	11.30
1½" X 1¼"	L	02285	5.50
1½" X 1"	L	02286	5.50
1½" X ¾"	L	02287	5.60
2" X 2½"	L	02288	18.20
2" X 1½"	L	02289	7.90
2" X 1¼"	L	02290	8.00
2" X 1"	L	02291	7.90
2½" X 3"	L	02292	34.40
2½" X 2"	L	02293	11.10
2½" X 1½"	L	02294	11.10
2½" X 1¼"	L	02295	11.10
3" X 4"	L	02296	42.00
3" X 2½"	L	02297	18.20
3" X 2"	L	02298	13.80
3" X 1½"	L	02299	13.80
4" X 3"	L	02300	41.90
4" X 2½"	L	02301	41.90
4" X 2"	L	02302	41.90

Reducing nipple BSP male thread



Size	Discount group	Code	Unit £
½" X 3/8"	L	02303	2.40
3⁄4" X 1⁄2"	L	02304	2.50
3/4" X 3/8"	L	02305	2.60
1" X ¾"	L	02306	3.20
1" X ½"	L	02307	3.20
1" X 3/8"	L	02308	3.30
1¼" X 1"	L	02309	3.90
1¼" X ¾"	L	02310	4.10
11/4" X 1/2"	L	02311	4.10
1½" X 1¼"	L	02312	4.50
1½" X 1"	L	02313	4.70
1½" X ¾"	L	02314	4.80
2" X 2½"	L	02315	5.70
2" X 1¼"	L	02316	6.20
2" X 1"	L	02317	6.20
2½" X 2"	L	02318	11.10
2½" X 1½"	L	02319	11.10
2½" X 1¼"	L	02320	11.10
3" X 2½"	L	02321	17.00
3" X 2"	L	02322	17.00
3" X 1½"	L	02323	17.00
4" X 3"	L	02324	39.10
4" X 2½"	L	02325	39.10
4" X 2"	L	02326	39.10

Hexagon nipple BSP male thread



Size	Discount group	Code	Unit £
3/8"	L	02111	2.20
1/2"	L	02112	2.40
3/4"	L	02113	2.80
1"	L	02114	3.30
11/4"	L	02115	4.10
1½"	L	02116	5.40
2"	L	02117	6.90
2½"	L	02118	12.10
3"	L	02119	18.80
4"	L	02120	44.30

Plug BSP male thread



Size	Discount group	Code	Unit £
1/4"	L	02121	1.60
3/8"	L	02122	1.70
1/2"	L	02123	2.00
3/4"	L	02124	2.40
1"	L	02125	3.30
11/4"	L	02126	4.40
1½"	L	02127	5.70
2"	L	02128	6.70
2½"	L	02129	11.90
3"	L	02130	19.30
4"	L	02131	37.60

Short reducing nipple BSP male x female thread



Size	Discount group	Code	Unit £
½" X ¼"	L	23087	2.50
3⁄4" x 1⁄2"	L	20147	3.00
3/4" x 1/4"	L	23088	3.00
¾" x 1/8"	L	28081	3.00
1" x ¾"	L	20148	3.60
1" x 1/4"	L	23089	3.70
1¼" x 1"	L	20149	4.50
1½" x 1¼"	L	20150	5.10
2 x 1½"	L	20151	7.80
2½" x 2"	L	20152	10.40
3" x 2½"	L	20153	17.70
4" x 3"	L	20154	42.20

Spigot connection plain



Size	Discount group	Code	Unit £
16 X 16 mm	L	02200	1.70
20 X 18 mm	L	02201	2.00
20 X 20 mm	L	02202	2.10
25 X 25 mm	L	02203	2.60
32 X 30 mm	L	02204	3.30
40 X 40 mm	L	02205	3.90
50 X 50 mm	L	02206	5.50
50 X 38 mm	L	02207	5.60
63 X 60 mm	L	02208	6.90

Spigot connection BSP male thread



Size	Discount group	Code	Unit £
³/ ₈ " X 16"	L	02217	1.70
½" X 18"	L	02218	2.00
½" X 20"	L	02219	2.10
¾" X 25"	L	02220	2.60
¾" X 20"	L	15763	2.70
1" X 30"	L	02221	3.30
1" X 25"	L	09031	3.30
1¼" X 40"	L	02222	3.90
1½" X 50"	L	02223	5.60
1½" X 38"	L	02224	5.50
1½" X 40"	L	09032	5.60
2" X 60"	L	02225	7.00



Spigot and nut union



Size	Discount group	Code	Unit £
16 X ¾"	L	02399	5.70
18 x ¾"	L	02400	6.00
20 x ¾"	L	02401	6.20
25 x 1"	L	02402	6.40
20 x 1"	L	15764	6.50
30 x 1¼"	L	02403	7.40
40 x 1½"	L	02404	9.50
50 x 2"	L	02405	11.40
38 x 2"	L	02406	11.20
60 X 2½"	L	02407	14.80

3 piece union plain imperial



Size	Discount group	Code	Unit £
1/2"	L	07332	5.50
3/4"	L	07333	6.40
1"	L	07334	8.90
11/4"	L	07335	10.70
11/2"	L	07336	13.10
2"	L	07337	19.10
21/2"	L	02333	50.20
3"	L	07806	73.10
4"	L	07807	103.00

Spigot union BSP female thread



Size	Discount group	Code	Unit £
16" x ³ / ₈ "	L	02408	9.30
18" x ½"	L	02409	9.70
20" x ½"	L	02410	9.80
25" x ¾"	L	02411	10.90
30" x 1"	L	02412	13.00
40" x 1¼"	L	02413	16.50
50" x 1½"	L	02414	20.60
38" x 1½"	L	02415	20.60
60" x 2"	L	02416	26.50

3 piece union s. socket x BSP female thread metric



Size	Discount	Code	Unit £
3126	group	Code	Ullit £
16 x ³ / ₈ "	L	20158	6.00
20 x ½"	L	02336	6.10
25 x ¾"	L	02337	7.10
32 x 1"	L	02338	9.60
40 x 1¼"	L	02339	11.40
50 x 1½"	L	02340	13.70
63 x 2"	L	02341	19.90
75 x 2½"	L	02342	55.70
90 x 3"	L	02343	71.00
110 x 4"	L	02344	112.80

3 piece union plain metric



Size	Discount group	Code	Unit £
16" x ³ / ₈ "	L	02417	9.30
18" x ½"	L	02418	9.60
20" x ½"	L	02419	9.70
25" x ¾"	L	02420	10.20
30" x 1"	L	02421	11.70
40" x 1¼"	L	02422	15.10
50" x 1½"	L	02423	18.30
38" x 1½"	L	02424	18.30
60" x 2"	L	02425	24.60

3 piece union s. socket x BSP female thread imperial



Size	Discount group	Code	Unit £
½ x ½"	L	07255	6.40
3/4 X 3/4"	L	07256	7.50
1 x 1"	L	07257	10.10
1¼ x 1¼"	L	07258	12.60
1½ x 1½"	L	07259	15.10
2 x 2"	L	07260	21.90
2½ x 2½"	L	02342	55.70
3 x 3"	L	07808	74.60
4 x 4"	L	07809	118.50

3 piece union plain metric



Size	Discount group	Code	Unit £
16 mm	L	20157	5.30
20 mm	L	02327	5.30
25 mm	L	02328	5.70
32 mm	L	02329	8.10
40 mm	L	02330	10.20
50 mm	L	02331	12.50
63 mm	L	02332	17.30
75 mm	L	02333	50.20
90 mm	L	02334	66.30
110 mm	L	02335	97.00

3 piece union plain x BSP male thread metric



Size	Discount group	Code	Unit £
16 mm X ³ / ₈ "	L	20160	6.80
20 mm X ½"	L	02353	6.80
25 mm X ¾"	L	02354	8.00
32 mm X 1"	L	02355	9.10
40 mm X 11/4"	L	02356	11.20
50 mm X 1½"	L	02357	12.30
63 mm X 2"	L	02358	19.90
75 mm X 2½"	L	02359	54.10
90 mm X 3"	L	02360	71.00
110 mm X 4"	L	02361	112.80

3 piece union plain X BSP male thread imperial



Size	Discount group	Code	Unit £
½" X ½"	L	07810	7.40
3⁄4" X 3⁄4"	L	07811	8.30
1" X 1"	L	07812	10.10
1¼" X 1¼"	L	07813	12.30
1½" X 1½"	L	07262	13.60
2" X 2"	L	07263	21.90
2½" X 2½"	L	02359	54.10
3" X 3"	L	07814	74.60
4" X 4"	L	07815	118.50

Sight glass plain imperial



Size	Discount group	Code	Unit £
1½"	L	21082	48.70
2"	L	21083	59.90
2½"	L	02389	149.20
3"	L	21084	180.30
4"	L	21085	223.80
5"	L	02393	310.50

PP open pipe clip

Union end imperial solvent socket



Size	Discount group	Code	Unit £
1/2"	L	27254	1.30
3/4"	L	27255	1.70
1"	L	27256	2.10
11/4"	L	27257	2.40
1½"	L	27258	3.50
2"	L	27259	4.50
21/2"	L	02178	10.30
3"	L	27260	13.70
4"	L	27261	26.70

. .

Size	Discount group	Code	Unit £
20 mm	L	02132	1.30
25 mm	L	02133	1.40
32 mm	L	02134	1.80
40 mm	L	02135	2.10
50 mm	L	02136	2.60
63 mm	L	02137	3.00
75 mm	L	02138	4.00
90 mm	L	02139	4.60
110 mm	L	08908	8.40
125 mm	L	08909	9.50
140 mm	L	10955	10.20
160 mm	L	08910	12.50
200 mm	L	08911	15.30
225 mm	1	10957	2/1/30

Union nut BSP female thread



Size	Discount group	Code	Unit £
1"	L	02188	1.90
11/4"	L	02189	2.30
1½"	L	02191	3.20
2"	L	02192	3.70
21/4"	L	02193	3.90
2¾"	L	02196	7.10
31/2"	L	02197	22.30
4"	L	02198	33.10
5½"	L	02199	41.50

PP closed pipe clip



Size	Discount group	Code	Unit £
50 mm	L	02140	3.20
63 mm	L	02141	3.40
75 mm	L	02142	4.60
90 mm	L	02143	5.40
110 mm	L	08916	13.10
125 mm	L	08917	14.80
140 mm	L	10956	15.60
160 mm	L	08918	18.10
200 mm	L	08919	22.00
225 mm	L	10958	33.20

Sight glass plain metric



Size	Discount group	Code	Unit £
50 mm	L	02387	46.40
63 mm	L	02388	57.00
75 mm	L	02389	149.20
90 mm	L	02390	180.30
110 mm	L	02391	223.80
125 mm	L	02392	251.00
140 mm	L	02393	310.50
160 mm	L	02394	451.10
200 mm	L	02395	521.30
225 mm	L	02396	641.50



PP reinforced clamp saddle



Size	Discount	Code	Unit £
	group		
25 mm X ½"	L	11435	5.20
25 mm X ¾"	L	02379	5.20
32 mm X ½"	L	11436	6.00
32 mm X ¾"	L	11437	6.00
32 mm X 1"	L	02380	6.00
40 mm X ½"	L	11438	6.30
40 mm X ¾"	L	11439	6.30
40 mm X 1"	L	02381	6.30
50 mm X ½"	L	11440	7.10
50 mm X ¾"	L	11441	7.10
50 mm X 1"	L	02382	7.10
63 mm X ¾"	L	11442	11.10
63 mm X 1"	L	02383	11.10
63 mm X 1½"	L	11443	11.10
75 mm X ½"	L	11444	16.20
75 mm X ¾"	L	11445	16.20
75 mm X 1"	L	02384	16.20
75 mm X 1½"	L	11446	16.20
90 mm X ½"	L	11447	18.20
90 mm X ¾"	L	11448	18.20
90 mm X 1"	L	02385	18.20
90 mm X 1¼"	L	11449	18.20
90 mm X 1½"	L	11450	18.20
110 mm X 1"	L	02386	25.30
110 mm X 1½"	L	11451	25.30
110 mm X 2"	L	11452	25.30
125 mm X 1"	L ·	11453	35.80
125 mm X 1½"	L	11454	35.80
125 mm X 2"	L	11455	35.80
140 mm X 1"	L	06022	59.30
140 mm X 1½"	L	06024	59.30
140 mm X 2"	L	06025	59.30
140 mm X 3"	L	06026	68.30
160 mm X 1"	L	06027	68.90
160 mm X 1½"	L	06029	68.90
160 mm X 2"	L	06030	68.90
160 mm X 3"	L	06031	75.80
200 mm X 1¼"	L	06032	265.80
200 mm X 1½"	L	06033	265.80
200 mm X 2" 200 mm X 3"	L	06034	265.80
	L	06035 06036	270.90
200 mm X 4" 225 mm X 1¼"	L	06036	270.90 322.40
225 mm X 1 ¹ / ₄ "	L	06037	322.40
225 mm X 1½ 225 mm X 2"		06038	
225 mm X 2"	L	06039	322.40 334.60
225 mm X 4"	L	06040	334.60
250 mm X 1¼"	L	06041	379.60
250 mm X 1½"	L	06042	379.60
250 mm X 2"	L	06043	379.60
250 mm X 3"	L	06044	389.50
250 mm X 4"	L	06045	
315 mm X 1 ¹ / ₄ "	L	06046	389.50 477.30
315 mm X 1½"	L	06047	477.30
315 mm X 2"	L	06048	477.30
315 mm X 3"	L	06049	
315 mm X 3"			495.40
313 WW Y 4	L	06051	495.40



PVC-U VALVES

Standard Range PVC-U double union ball valve (PE-EPDM)

The Thermoplastic ball valves have been developed with the highest quality and long term reliability in mind. With its strong and compact design, easier installation due to the deeper groves on the union nuts and its anti-slip surface on the handle.

Standard range plain



Size	Discount group	Code	Unit £
16 mm	L	36500	22.30
20 mm	L	36501	22.30
25 mm	L	36502	24.50
32 mm	L	36503	32.40
40 mm	L	36504	37.50
50 mm	L	36505	50.60
63 mm	L	36506	69.00
75 mm	L	36507	217.00
90 mm	L	36508	315.50
110 mm	L	36509	564.00

PVC-U double union ball valve (TEFLON-EPDM) plain metric



Size	Discount group	Code	Unit £
16 mm	L	05355	27.70
20 mm	L	02470	27.70
25 mm	L	02471	32.60
32 mm	L	02472	44.00
40 mm	L	02473	52.50
50 mm	L	02474	69.60
63 mm	L	02475	92.30
75 mm	L	02476	257.00
90 mm	L	02477	349.80
110 mm (DN80)	L	05356	362.50

PVC-U double union ball valve (PE-EPDM) plain metric



Size	Discount group	Code	Unit £
16 mm	L	05352	23.90
20 mm	L	02453	23.90
25 mm	L	02454	26.20
32 mm	L	02455	34.60
40 mm	L	02456	40.10
50 mm	L	02457	55.20
63 mm	L	02458	75.00
75 mm	L	02459	234.10
90 mm	L	02460	321.70
110 mm (DN80)	L	02461	339.90

PVC-U double union ball valve (TEFLON-EPDM) plain imperial



Size	Discount group	Code	Unit £
³ / ₈ "	L	07275	29.10
1/2"	L	07276	29.10
3/4"	L	07277	34.20
1"	L	07278	46.10
11/4"	L	07279	55.20
1½"	L	07280	73.10
2"	L	07281	96.90
2½"	L	02476	257.00
3"	L	07283	349.80
4" (DN80)	L	07284	399.70

PVC-U double union ball valve (PE-EPDM) plain imperial



Size	Discount group	Code	Unit £
1/2"	L	07266	26.30
3/4"	L	07267	28.90
1"	L	07268	38.20
11/4"	L	07269	44.30
1½"	L	07270	60.80
2"	L	07271	82.70

PVC-U double union ball valve (TEFLON-EPDM) BSP female thread



Size	Discount group	Code	Unit £
3/8"	L	05357	29.00
1/2"	L	02478	29.00
3/4"	L	02479	34.80
1"	L	02480	46.80
11/4"	L	02481	57.70
1½"	L	02482	75.70
2"	L	02483	100.50
2½"	L	02484	288.50
3"	L	02485	382.10
4" (DN80)	L	05358	410.50



PVC-U VALVES

PVC-U spring check valve plain with EPDM seals metric



Size	Discount group	Code	Unit £
16 mm	L	09010	25.30
20 mm	L	09011	25.30
25 mm	L	09012	28.60
32 mm	L	09013	31.10
40 mm	L	09014	38.30
50 mm	L	09015	50.90
63 mm	L	09016	70.30
75 mm	L	09017	155.10
90 mm	L	09018	204.90
110 mm (DN80)	L	09019	227.40

PVC-U spring check valve plain with EPDM seals imperial



Size	Discount group	Code	Unit £
1/2"	L	09110	26.60
3/4"	L	09111	30.10
1"	L	09112	32.70
11/4"	L	09113	40.20
1½"	L	09114	53.40
2"	L	09115	71.70
2½"	L	09017	155.10
3"	L	09117	215.10
4" (DN80)	L	09118	238.80

PVC-U foot valve plain with EPDM seals metric



Size	Discount group	Code	Unit £
16 mm	L	08990	26.20
20 mm	L	08991	26.20
25 mm	L	08992	31.70
32 mm	L	08993	35.40
40 mm	L	08994	39.00
50 mm	L	08995	51.50
63 mm	L	08996	71.60
75 mm	L	08997	165.80
90 mm	L	08998	214.50
110 mm	L	08999	229.10

PVC-U wafer check valve plain with EPDM seals



Size	Discount group	Code	Unit £
75 mm	L	08984	68.20
90 mm	L	08985	75.60
110 mm	L	08986	92.10
125 mm	L	09040	107.70
140 mm	L	08987	118.00
160 mm	L	08988	128.50
200 mm	L	09041	153.90
225 mm	L	08989	184.00

PVC-U wafer check valve with mounting kit



Size	Discount group	Code	Unit £
75 mm	L	23312	154.30
90 mm	L	23313	204.30
110 mm	L	23314	252.80
125 mm	L	23315	312.10
140 mm	L	23316	353.90
160 mm	L	23317	450.80
200 mm	L	23318	600.00
225 mm	L	23319	680.00

PVC-U foot valve plain with EPDM seals imperial



Size	Discount group	Code	Unit £
1/2"	L	09100	27.50
3/4"	L	09101	33.30
1"	L	09102	37.20
11/4"	L	09103	43.00
1½"	L	09104	56.80
2"	L	09105	78.90
2½"	L	08997	165.80
3"	L	09107	236.50
4" (DN80)	L	09108	252.60

PVC-U VALVES

Standard range butterfly valve with EPDM seals

The new standard series butterfly valve has been designed after renovation of the current range. With a body in PVC-U it offers a high mechnical and environmental resistance. One piece body, which avoid leaks and compatible with any flange system (DIN, ASTM and JIS). A ergonomic handle with excellent resistance to corrosion and with 7 positions (each 15') acts like a position indicator.

Standard range wafer only metric / imperial



Size	Discount group	Code	Unit £
75 mm / 2½"	L	32614	224.20
90 mm / 3"	L	32615	261.20
110 mm / 4"	L	32616	290.00
125-140 mm / 5"	L	32617	345.20
160 mm / 6"	L	32618	422.20
200-225 mm / 8"	L	32619	628.50
250 mm	L	46647	1,600.90
315 mm	L	46648	2,758.60

PVC-U Butterfly valve wafers



Size	Discount group	Code	Unit £
63 -75 mm / 2½"	L	02581	251.00
90 mm / 3"	L	02582	292.70
110 mm / 4"	L	02583	324.90
125 - 140 mm / 5"	L	02585	378.70
160 mm / 6"	L	02586	462.80
200 - 225 mm / 8"	L	02587	689.30
250 mm	L	15846	1,344.80

Standard range complete with mounting kit metric

Size	Discount group	Code	Unit £
63 mm	L	0583063K	223.20
75 mm	L	0583075K	223.20
90 mm	L	0583090K	398.90
110 mm	L	0583110K	455.20
125 mm	L	0583125K	556.00
140 mm	L	0583140K	583.40
160 mm	L	0583160K	792.00
200 mm	L	0583200K	1,105.10
225 mm	L	0583225K	1,168.30

PVC-U mounted butterfly valve complete plain with EPDM seals metric

Size	Discount group	Code	Unit £
63 mm	L	02598	316.20
75 mm	L	02599	336.10
90 mm	L	02600	423.80
110 mm	L	02601	482.20
125 mm	L	02602	579.60
140 mm	L	02603	605.50
160 mm	L	02604	815.30
200 mm	L	02605	1,200.30
225 mm	L	02606	1,203.20
250 mm	L	02607	2,100.00

New standard range with mounting kit imperial

Size	Discount group	Code	Unit £
21/2"	L	0583075K	223.20
3"	L	0583908K	396.80
4"	L	0583910K	452.70
5"	L	0583140K	583.40
6"	L	0583914K	786.50
8"	L	0583917K	1,160.00

PVC-U mounted butterfly valve complete plain with EPDM seals imperial

Size	Discount group	Code	Unit £
2"	L	0581906	315.80
2½"	L	0581075	336.10
3"	L	0581908	421.40
4" (DN80)	L	0581910	479.80
5"	L	0581140	605.50
6"	L	0581914	809.80
8"	L	0581917	1,195.40

Butterfly Valve PP-GF Body, stainless steel shaft AISI 630, Gear Box



Size	Discount group	Code	Unit £
63-75 mm	L	34466	793.00
90 mm	L	34467	810.50
110 mm	L	34468	889.60
125-140 mm	L	34469	1,006.30
160 mm	L	34470	1,392.60
200-225 mm	L	34471	1,963.80
250-280 mm	L	34472	3,259.50
315 mm	L	32738	4,223.70



PTFE TAPE, PVC CLEANER & SOLVENT CEMENT



PTFE tape

Size	Discount group	Code	Unit £
12 m X 12 mm X 0.076 mm	L	56231	1.60
50 m X 19 mm X 0.1 mm	L	56232	14.80



PVC cleaner

Liquid cleaner for cleaning and degreasing pipes, sockets and other PVC rigid fittings before gluing together

and for removing excess glue.

	group	5545	S 2
500 ml	L	57685	14.00
1.000 ml	L	57687	22.80



PVC Gel Solvent cement

Slow setting time, allowing correct positioning of the fittings and perfect cementation, supplied with brush.

	Discount group	Code	Unit £
500 ml	L	68521	21.60
1.000 ml	L	68522	37.00



PVC Blue Solvent cement

For use in pool installations, Its high gel composition and covering capacity gives perfect cementation, supplied with brush.

Discount Code Unit £

	group	5525	2 2
250 ml	L	68518	15.80
500 ml	L	68520	24.80
1.000 ml	L	68592	40.00



PVC-U & ABS PIPE

Metric grey PVC-U pressure pipe plain ended



Size	Discount group	Code	Price per metre £
20 mm Class E	L	02722	2.90
25 mm Class C	L	02723	4.70
32 mm Class C	L	02707	4.80
40 mm Class C	L	02708	6.80
50 mm Class C	L	02709	10.80
63 mm Class C	L	02710	18.00
75 mm Class C	L	02711	25.50
90 mm Class C	L	02712	36.50
110 mm Class C	L	02713	41.40
125 mm Class C	L	02714	53.20
140 mm Class C	L	02715	68.30
160 mm Class C	L	02716	88.00
200 mm Class C	L	02718	445.02

Sold in 5 metre lengths only apart from 140mm which is a 6 metre length. $\,$

Flexible grey PVC-U pipe



Size	Discount group	Code	Price per roll £
20 mm	L	30754	93.00
25 mm	L	30755	113.00
32 mm	L	30756	175.00
40 mm	L	30757	215.00
50 mm	L	69856	543.00
63 mm	L	69858	417.00
75 mm	L	34588	645.00

Supplied in 25 m rolls, apart from 50 mm which is sold in 50 metre rolls.

Imperial grey PVC-U pressure pipe plain ended



Size	Discount group	Code	Price per metre £
½" Class E	L	6115901	3.40
¾" Class E	L	6115902	4.80
1" Class E	L	6115903	6.60
1½" Class D	L	6112905	10.90
2" Class C	L	6112906	12.70
3" Class C	L	6112908	28.00
4" Class C	L	6112910	45.80
6" Class C	L	6112914	97.70

Sold in 6 metre lengths only.





SPAS AND WELLBEING

- 268 Our range of spas
- 269 Colour chart for spas
- 269 Coding structure for private spas with cabinet
- 269 Types of coatings
- 270 · Optional equipment
- 271 Standard equipment
- 276 Spa range Ocean Dreams range
- 279 Spa range Essential range
- 281 Spa range Swimspa range
- 283 In-ground residential spas
- 284 Professional range
- 284 Colour chart for spas
- 284 Optional equipment
- 285 In-ground overflow commercial spas
- 289 Tiled spas
- 291 Accessories
- 298 Accessories for minispas
- 299 Air blowers







OUR RANGE OF SPAS





Ocean Dreams range

A range of spas intended for the most demanding users. Ergonomic spas, with numerous features and configuration settings.



Swimspa range

Swimspas are small residential pools.

Versatile, powerful and compact. A health and wellness centre available all year round.



Essential range

The Essential range seeks to strike a balance between functionality, performance and cost.



Commercial range

Spas designed for commercial spaces, wellness centres, hotels

A wide range of options and finishes that cover all needs. Spas with both an acrylic and mosaic tile finish.



COLOUR CHART FOR SPAS















N° 44 WHITE

N° 46 BLUE MARBLE N° 59 STERLING

N° 64 PEARL SHADOW N° 72 PEARL CAMEO N° 27 SILVER While stocks last

N°18 SAND While stocks last

CODING STRUCTURE FOR PRIVATE SPAS WITH CABINET

The coding structure for the wood cabinet spas is made up of 10 digits. The first 5 digits refer to the Spa model and the following ones indicate the range, coating and the colour of the accessories as it is also necessary to specify the colour.

This coding system will be structured in the following way:

ſ	XXXXX	Х	Х	Х	XX	CL	XX
I	Spa Model	Range	Coating type	Accessory colour	Accessories	Variation	Colour

Position 1 to 5: S	tandard code 5 figure code
Position 6: Produ	ct range definition
S	Standard
A	Plus
Position 7: Coatin	g type definition
1	Coastal Grey portable spa with cabinet
4	Portable spa without cabinet
Е	In-ground spa, compact kit version
В	Urban Grey cabinet
K	Graphite cabinet
Р	Graphite cabinet with screw
С	Thunder cabinet
R	Thunder cabinet with screw
Q	Creek cabinet
T	Infinity cabinet
S	Solid Surface
W	Butterfly cabinet
Position 8: Acces	sories colour definition
3	Stainless
Positions 9 to 10	: Options configuration definition
00	Std + Cover
05	Std + Cover + ECOSpa
20	Std + Cover + LumiPlus
21	Std + Cover + ECOSpa + LumiPlus
23	Std + Cover + LumiPlus + Audio
32	Std + Cover + LumiPlus + Stainless steel bar on cabinet
27	Std + Cover + LumiPlus + ECOSpa + Stainless steel bar on cabinet
33	Std + Cover + LumiPlus + Audio + Stainless steel bar on cabinet
34	Std + Cover + LumiPlus + ECOSpa + Audio
35	Std + Cover + LumiPlus + ECOSpa + Audio + Stainless steel bar on cabinet
56	Std + Cover + LumiPlus + EcoSpa + Audio + Stainless Steel Bar on Cabinet + Wi-Fi Touch Panel
55	Std + Cover + LumiPlus + EcoSpa + Nordic Insulation + Audio + Stainless Steel Bar on Cabinet + Wi-Fi Touch Panel
OJ	Std + Cover + LumiPlus + EcoSpa + Stainless Steel Bar on Cabinet + Blue Connect Plus

TYPES OF COATINGS















Solid Surface



OPTIONAL EQUIPMENT

EcoSpa thermal insulation



EcoSpa is one of the best thermal insulation systems currently available in the market. This comprehensive system manages to minimize heat loss by convection and conduction, and to use the heat generated by the heater and pumps found in the spa. The walls have an exclusive 30 mm thick layer of polyurethane foam insulation. A strong ABS substructure of insulating plastic at the bottom of the spa ensures total water tightness. Finally, an isothermal cover of between 100 and 130 cm thick gives extra insulation.

All of these features reduce heat loss to a minimum and maximize the recovery of the heat generated by the spa's components, thus reducing energy consumption by up to 67%. With ECOSpa, consumption to maintain the water at 38° with a room temperature of 20° is 6.48 kW/h, while without this system it is 19.52 kW/h.

EcoSpa option

Nordic Insulation System





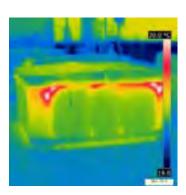
NORDIC INSULATION SYSTEM is designed for cold environments and can enhance your spa's energy efficiency.

The Nordic insulation system comprises a 10mm insulating material composed of five layers. This insulation layer is positioned in the sides and curves of the spa to create an insulating air chamber inside. The five layers are made from:

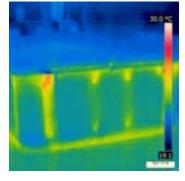
- · Aluminium.
- RC9 bubble + low-density polyethylene (double layer).
- FONPEX non-crosslinked polyethylene foam (20 kg/m³).
- RC9 bubble + low-density polyethylene (double layer).
- Aluminium.

This system is an improvement over the EcoSpa class as it minimizes temperature leak zones and optimizes spa energy performance in extreme temperature situations.

Difference between the EcoSpa and Nordic insulation systems in thermal imaging:



Spa with EcoSpa



Spa with Nordic insulation system

Wi-Fi Touch panel



The Balboa Wi-Fi control panel is an app for your smart device (Android™ or iPhone®) which lets you access your spa over the internet from anywhere, home or away. All you need is a 3G, 4G or Wi-Fi connection to access and control your spa over your mobile phone or tablet.

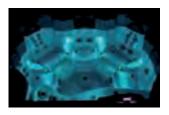
By using the Wi-Fi control panel, you can make sure that your spa is ready for use every time you want to take a dip. Instead of having to go outside and fiddle around with the buttons on the control panel, this app will enable you to change your spa's settings from your mobile phone or tablet.

The app has a full control interface so you can set the water temperature, run the massage pumps and even control the filtration cycle.



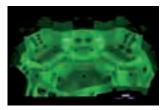
OPTIONAL EQUIPMENT

LumiPlus + Bluetooth Audio System, only available for fully skirted portable spas



Natural treatments are one of the main sources of health provided by a spa. Chromotherapy and music therapy are the perfect accompaniment to any hot tub.

Chromotherapy is the natural technique based on the use of colours to help your mind and body find their natural physical, mental and emotional balance. By choosing the LumiPlus option, 5 LED spotlights are added to your spa so that you can enjoy a spectacular ambient lighting system. Thanks to the 5 LED spotlights, you can choose the colours that match your mood at any given time.











The Bluetooth Audio System enables music to be played from any mobile phone, MP4 Player or audio equipment via a simple Bluetooth connection, without the need for any cables and with coverage of up to 7 metres. Now you can truly make your spa a centre of relaxation, health and beauty.

The Advance range has a 4.1 Bluetooth Audio system made up of 4 external loudspeakers, an internal subwoofer and a Bluetooth receiver.

The Essential range has a 2.1 Bluetooth Audio system made up of 2 external loudspeakers, an internal subwoofer and a Bluetooth receiver.

LumiPlus + Bluetooth Audio System option

STANDARD EQUIPMENT

Balboa Electronics, standard in all spas



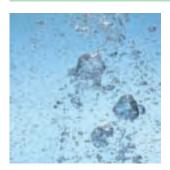
AstralPool only uses new generation control systems made by BALBOA, a leading supplier of electronic controls for hydromassage tubs and spas.

With the continual improvement made to its designs and its innovative solutions to increase the quality and reliability of its systems, the Balboa EL/GL and VS/GS family of control systems has been designed using patented M7 technology for temperature and flow sensors, and its new universal control system increases the flexibility of its functions and reduces installation and configuration problems.

These characteristics make the controls even more reliable, easier to install and easier to use.

STANDARD EQUIPMENT

Ozone disinfection system



Ozone is "active oxygen", a special element found in nature. Ozone is a powerful oxidising agent and, unlike traditional chemical products, it does not leave toxic waste behind, and when it has done its work it simply turns back into oxygen. Moreover, tests have proved that it effectively kills bacteria and mould

AstralPool manufactures spas that give high quality performance and supplies an integrated ozone generator as a standard feature in all of its portable spas. The ozonator has numerous benefits: the water in spas will be safer, cleaner, purer, free of chloramines, trihalomethane and other chlorine by-products, with a high redox potential. Greater water clarity and algae control are obtained using lower concentrations of chemical substances.

A spa with water purified with ozone is one of the most pleasant relaxation and hydrotherapy experiences.

Ultraviolet disinfection system

Spas equipped with the ultraviolet system are disinfected using UV technology. Thanks to a UV lamp, all bacteria in the water are destroyed. The advantages of the ultraviolet system can be summarized as follows:

- It ensures water remains fresh, clean and clear.
- It is an efficient and safe way of disinfecting the water.
- Its UV-C light breaks down combined chlorine.
- It protects the water from germs.
- It keeps the formation of mould, bacteria and algae under control.
- It can reduce the amount of chlorine and other chemical products used by up to 80%.
- It prevents the smell of chlorine and irritation to the skin and eyes (bloodshot eyes).
- It is more environmentally friendly than traditional methods.

Using this system, all bacteria, mould and algae will automatically be removed from your spa, and it will be protected from germs without the need for any kind of maintenance.

Aroma, only available for spas with a blower



Aromatherapy offers the therapeutic properties of pure aromas for a natural treatment and makes a significant contribution in helping to restore your natural state of balance and harmony.

Nobody is indifferent to smells. They bring to mind emotions, memories and ideas. Increase the relaxing effect of your tub by adding a fragrance!







SPA RANGE

Model comparison

	V	12.00	GREEN.	/ Committee	Sweet St.	Pencing.	ARTONIA)	and the	68.00)	PRODUCED.
				12	順	1	P37			3
			Ocean Dre	ams range				Essenti	al range	
MODELS	Pure	New'Art	Evolution	Atlantida 70	Pacific 70	Ocean 70	Select E	Emotion E	Equilibre E	Balance E
Code	68450	68449	32474	62399	69130	69863	76894	69122	73076	774134
General Information										
Size cm (± 2 cm)	220 x 220 x 78	220 x 220 x 78	233 x 233 x 91	216 x 216 x 90	216 x 216 x 90	216 x 167 x 74	216 x 216 x 90	216 x 216 x 90	216 x 167 x 74	198 x 198 x 74
Places (Seats/Loungers)	4 (4 / -)	5 (3 / 2)	5 (3 / 2)	5 (3 / 2)	6 (5 / 1)	3 (1 / 2)	6 (5 / 1)	5 (3 / 2)	3 (2 / 1)	5 (3 / 2)
Graphite Cabinet	-	-	•	•	•	•	•	•	-	-
Coastal Grey cabinet	-	-	-	-	-	-	-	-	-	-
Thunder Cabin	-	-	Optional	Optional	Optional	Optional	Optional	Optional	-	-
Creek Cabinet	-	-	Optional	Optional	Optional	Optional	-	-	-	-
Butterfly Cabinet	-	-	Optional	Optional	Optional	Optional	-	-	-	-
Inifinity Cabinet	-	-	-	-	-	-	-	-	•	•
Solid surface Cabinet	•	•	-	-	-	-	-	-	-	-
Without cabinet	-	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Options										
EcoSpa thermal insulation	•	•	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Nordic Insulation	Optional	Optional	Optional	Optional	Optional	Optional	-	-	-	-
Bluetooth Audio system	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	-	Optional
LumiPlus LED lighting system	(Sist. 4.1)	(Sist. 4.1)	(Sist. 4.1)	(Sist. 4.1)	(Sist. 4.1)	(Sist. 4.1)	(Sist. 2.1) Optional	(Sist. 2.1) Optional	-	(Sist. 2.1)
Stainless steel jets	•	•	•	•	•	•	•	•	•	•
Stainless steel bar	-	-	•	•	•	•	-	-	-	-
Wi-Fi Touch Panel	Optional	Optional	Optional	Optional	Optional	Optional	-	-	-	-
Configurations										
No of jets	27	28	56	52	51	42	51	32	26	31
No. of blower nozzles	12	14	16	14	10	-	-	12	-	12
Waterfalls	-	-	-	2	2	-	1	-	-	-
Water Fountain	-	-	2	-	-	-	-	-	-	-
Headrests	2	3	3	3	3	3	3	3	3	3
Digital control panel	1	1	2	1	1	1	1	1	1	1
Oxynator	-	-	-	-	-	-	•	•	•	•
Ultraviolet	•	•	•	•	•	•	-	-	-	-
Aromatherapy	•	-	•	•	•	-	-	-	-	-
Chromotherapy	5 LEDs + light Tab	5 LEDs + light Tab	5 LEDs + light Tab	1 LED	1 LED	1 LED	1 LED			
Structure and Cover		1	ı	ı	ı	ı			1	ı
High-resistance metal structure	•	•	•	•	•	•	•	•	•	•
Insulating ABS base	•	•	•	•	•	•	•	•	•	•
Isothermal cover	•	•	•	•	•	•	•	•	•	•
Technical equipment			1	·	1					1
Filter pump	200 W	200 W	200 W	200 W	200 W	200 W	200 W	200 W	-	-
Massage pump	1.8 kW / 2.5 HP	1.8 kW / 2.5 HP	2 x 2.2 kW / 3 HP	2 x 1.8 kW / 2.5 HP	2 x 1.8 kW / 2.5 HP	2.2 kW / 3 HP	2 x 1.8 kW / 2.5 HP	1 x 1.8 kW / 2.5 HP	1.8 kW / 2.5 HP, 2 Vel	1.8 kW / 2.5 HP, 2 Vel.
Blower pump	1150 W	1150 W	400 W	400 W	400 W	-	-	400 W	-	400 W
Electric heater	3 kW	3 kW	3 kW	3 kW	3 kW	3 kW	3 kW	3 kW	3 kW	3 kW
Power consumption and capaci	city									
Consumption in low amps (W)	3400 W	3400 W	5200 W	4400 W	4400 W	3400 W	3780 W	3400 W	3.400 W	3400 W
Required power (A) at 230 V	14.6 A	14.6 A	22.4 A	19.1 A	19.1 A	14.6 A	16.8 A	14.6 A	14.6 A	14.6 A
230 V or 400 V III connection	•	•	•	•	•	•	•	•	•	•
		• 975 I	• 1.610 I	1.138 l 327 kg /	1.138 l 327 kg /	780 l	930 I 327 kg /	930 I 327 kg /	780 I	935 I 246 kg /



SPA RANGE

Model comparison

		1	E	5			
		Swimsp	a range			IN-GROUND range	
MODELS	Swimspa Dual	Swimspa Mediterranea	Swimspa Creta	Swimspa Compact	Evolution 70	Thalassa E	Ronda 30
Code	74238	64414	67203	69128	49722	78678	49859
General Information							
Size cm (± 2 cm)	600 x 230 x 138	500 x 230 x 138	400 x 230 x 138	400 x 230 x 138	216 x 216 x 90	216 x 216 x 90	Ø 205
Places (Seats/Loungers)	1 Vertical + 4 (2 / 2)	4 (2 / 2)	4 (2 / 1 / 1)	1 Vertical	5 (3 / 2)	6 (5 / 1)	5 (5 / 0)
Graphite Cabinet	-	-	-	-	-	-	-
Coastal Grey cabinet	YES	YES	YES	YES	-	-	-
Thunder Cabin	-	-	-	-	-	-	-
Creek Cabinet	-	-	-	-	-	-	-
Butterfly Cabinet	-	-	-	-	-	-	-
Urban Grey	Optional	Optional	Optional	Optional	-	-	-
Solid surface Cabinet	-	-	-	-	-	-	-
Without cabinet	Optional	Optional	Optional	Optional	Yes	Yes	Yes
Options							
EcoSpa thermal insulation	Optional	Optional	Optional	Optional	-	-	-
Nordic Insulation	-	-	-	-	-	-	-
Bluetooth Audio system	Optional (Sist. 4.1)	Optional (Sist. 4.1)	Optional (Sist. 4.1)	Optional (Sist. 4.1)	-	-	-
LumiPlus LED lighting system	•	•	•	•	-	-	-
Stainless steel jets	•	•	•	•	•	•	•
Stainless steel bar	•	•	•	•	-	-	-
Wi-Fi Spa Control	Optional	Optional	Optional	Optional	-	-	-
Rowing Kit	Optional. Code: 74496	-	Optional	-	-	-	-
Configurations	71130						·
No of jets	16 + 5 Turbo Jets + 30 Jets	27 + 5 Turbo Jets	54 + 4 Turbo Jets	16+5 Turbo Jets	56	28	20 + 10
No. of blower nozzles	-	-	-	-	16	16	-
Waterfalls	-	1	-	-	-	-	-
Headrests	3	1	3	-	3	3	-
Touch Panel	2	1 +aux	1	1	1+ aux	1	1
Oxynator	-	-	-	-	-	-	-
Ultraviolet	Yes	Yes	Yes	Yes	-	-	-
Aromatherapy	-	-	-	-	-	-	-
Chromotherapy	5 LEDs + light Tab	5 LEDs + light Tab	5 LEDs + light Tab	5 LEDs + light Tab	Yes	1 LED (CHROMOTHERAPY)	1 LED (CHROMOTHERAPY)
Structure and Cover							
High-resistance	•	•	•	•	•	•	•
metal structure Insulating base	•	•	•	•	Yes	Yes	Yes
Isothermal cover	•	•	•	•	•	Optional	Optional
Technical equipment						- Pro-	
Filter pump	400 W + 200 W	400 W	400 W	400 W	600 W	600 W	600 W
Massage pump	3 x 2.2 kW / 3 HP + 2.2 kW / 3 HP	3 x 2.2 kW / 3 HP	3 x 2.2 kW / 3 HP	3 x 2.2 kW / 3 HP	2 x 2.2 kW / 3 HP	1 x 1.8 kW / 2.5 HP	1 x 1.8 kW / 2.5 HP
Blower pump	-	-	-	-	900 W	900 W	900 W
Electric heater	3 kW + 3 kW	3 kW	3 kW	3 kW	3 kW	3 kW	3 kW
Power consumption and capa	city						
Consumption in low amps (W)	9500 W	7000 W	7000 W	7000 W	5927 W	3650 W	3650 W
Required power (A) at 230 V	41.3 A	30.4 A	30.4 A	30.4 A	25.8 A	15.9 A	15.9 A
230 V or 400 V III connection	•	•	•	•	•	•	•
Water capacity (litres)	6780 I	8500 I	6000 I	6000 I	1610	980	780 I
Spa weight (Empty / Full)	1379 kg / 8159	1177 kg / 9677	1177 kg / 7177 ko	1150 kg / 7150	378 Kg / 1988 Kg	330 kg / 1310 kg	307 kg / 1445 kg
(Empty / Full)	kg	kg	kg	kg	L/R		_



SPA RANGE - OCEAN DREAMS RANGE

Pure - Code 68450





TECHNICAL FEATURES			
Size in cm (± 2cm)	220 x 220 x 78		
Positions (Seats / Loungers)	4 (4 / -)		
Jets + blower nozzles	27 + 12		
Maximum consumption in low amp - (A) at 230 V	3400 W - 14.6 A		

- Audio Bluetooth 4.1Nordic InsulationWi-Fi Touch Panel

Description	Code	Discount group	Unit £
White Solid Surface Cabinet + PureLine + ECOSpa	68450SS336	W	33,850.00
White Solid Surface Cabinet + PureLine + Bluetooth Audio+ ECOSpa	68450SS337	W	35,696.00

New'Art - Code 68449





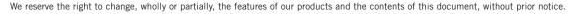


TECHNICAL FEATURES						
Size in cm (± 2cm)	220 x 220 x 78					
Positions (Seats / Loungers)	5 (3 / 2)					
Jets + blower nozzles	28 + 14					
Maximum consumption in low amp - (A) at 230 V	3400 W - 14.6 A					

on page 269.
Options:
• Audio Bluetooth 4.1

- Nordic InsulationWi-Fi Touch Panel

10.10	Description	Code	Discount group	Unit £
	White Solid Surface Cabinet + PureLine + ECOSpa	68449SS336	W	33,850.00
	White Solid Surface Cabinet + PureLine + Bluetooth Audio + ECOSpa	68449SS337	W	35,696.00





SPA RANGE - OCEAN DREAMS RANGE

Evolution - Code 32474





WHITE COLOUR (44)

Butterfly Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover

TECHNICAL FEATURES					
Size in cm (± 2cm)	233 x 233 x 90				
Positions (Seats / Loungers)	5 (3 / 2)				
Jets + blower nozzles	56+16+2 water fountains				
Maximum consumption in low amp - (A) at 230 V	5200 W - 22.4 A				

Spa coding with options generated from the table on page 269.
Options:

- ECOSpaAudio Bluetooth 4.1Nordic Insulation

GRAPHITE CABINET			
Description	Code	Discount group	Unit £
Metallic structure without furniture + Stainless steel jets + LumiPlus + Cover	32474A4320	W	22,323.00
Graphite cabinet + Stainless steel jets + Stainless steel bar + LumiPlus + Cover	32474AK332	W	23,011.00
Thunder cabinet + Stainless steel jets + Stainless steel bar + LumiPlus + Cover	32474AR332	W	23,011.00
Creek cabinet + Stainless steel jets + Stainless steel bar + LumiPlus + Cover	32474AT332	W	23,011.00

Atlantida 70 - Code 62399



23,011.00



SILVER COLOUR (27) THUNDER CABINET

TECHNICAL FEATURES	
Size in cm (± 2cm)	216 x 216 x 90
Positions (Seats / Loungers)	5 (3 / 2)
Jets + blower nozzles	52 + 14 + 2 waterfalls
Maximum consumption in low amp - (A) at 230 V	4400 W / 19.1 A

32474AW332

Spa coding with options generated from the table on page 269.
Options:

- ECOSpa
 Audio Bluetooth 4.1
 Nordic Insulation



Descripción	Code	Discount group	Unit £
Metallic structure without furniture + Stainless steel jets + LumiPlus + Cover	62399L4320	W	17,045.00
Graphite cabinet + Stainless steel jets + Stainless steel bar + LumiPlus + Cover	62399LK332	W	17,734.00
Thunder cabinet + Stainless steel jets + Stainless steel bar + LumiPlus + Cover	62399LR332	W	17,734.00
Creek cabinet + Stainless steel jets + Stainless steel bar + LumiPlus + Cover	62399LT332	W	17,734.00
Butterfly Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	62399LW332	W	17,734.00



SPA RANGE - OCEAN DREAMS RANGE

Pacific 70 - Code 69130







WHITE COLOUR (44) **BUTTERFLY CABINET**

TECHNICAL FEATURES	
Size in cm (± 2cm)	216 x 216 x 90
Positions (Seats / Loungers)	6 (5 / 1)
Jets + blower nozzles	51+10 + 2 waterfalls
Maximum consumption in low amp - (A) at 230 V	4400 W / 19.1 A

on page 269.
Options:
• ECOSpa

- Audio Bluetooth 4.1Nordic InsulationWi-Fi Touch Panel

Description	Code	Discount group	Unit £
Metallic structure without furniture + Stainless Steel Jets + LumiPlus + Cover	69130A4320	W	17,045.00
Graphite Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	69130AK332	w	17,734.00
Thunder Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	69130AR332	W	17,734.00
Creek Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	69130AT332	W	17,734.00
Butterfly Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	69130AW332	w	17,734.00

Ocean 70 - Code 69863







WHITE (44) CREEK CABINET

TECHNICAL FEATURES				
Size in cm (± 2cm)	216 x 167 x 74			
Positions (Seats / Loungers)	3 (1 / 2)			
Jets	42			
Maximum consumption in low amp - (A) at 230 V	3400 W / 14.6 A			

spa coding with options on page 269.
Options:
• ECOSpa
• Audio Bluetooth 4.1
• Nordic Insulation
• Wi-Fi Touch Panel

Description	Code	Discount group	Unit £
Metallic structure without furniture + Stainless Steel Jets + LumiPlus + Cover	69863A4320	W	12,749.00
Graphite Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	69863AK332	w	13,383.00
Thunder Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	69863AR332	W	13,383.00
Creek Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	69863AT332	W	13,383.00
Butterfly Cabinet + Stainless Steel Jets + Stainless Steel Bar + LumiPlus + Cover	69863AW332	W	13,383.00



SPA RANGE - ESSENTIAL RANGE

Select E - Code 76894







WHITE (44) THUNDER CABINET

TECHNICAL FEATURES				
Size in cm (± 2cm)	216 x 216 x 90			
Positions (Seats / Loungers)	6 (5 / 1)			
Jets	51 + 1 waterfall			
Maximum consumption in low amp - (A) at 230 V	3.780 W / 16.8 A			

Spa coding with options generated from the table on page 269.
Options:

Description	Code	Discount group	Unit £
SELECT E Metallic structure without furniture + Stainless steel jets + Cover	76894A4300	W	13,043.00
SELECT E Graphite cabinet + Stainless steel jets + Cover	76894AP300	W	13,731.00
SELECT E Thunder cabinet + Stainless steel jets + Cover	76894AQ300	W	13,731.00

Emotion E - Code 69122







WHITE (44) THUNDER CABINET

TECHNICAL FEATURES			
Size in cm (± 2cm) 216 x 216 x 9			
Positions (Seats / Loungers)	5 (3 / 2)		
Water Jets	32		
Air Jets	12		
Maximum consumption in low amp - (A) at 230 V	3.400 W - 14.8 A		

Spa coding with options generated from the table on page 269.
Options:
• ECOSpa
• LumiPlus
• Audio Bluetooth 2.1

Description	Code	Discount group	Unit £
Metallic structure without furniture + Stainless steel jets + Cover	69122A4300	W	11,486.00
Graphite cabinet + Stainless steel jets + Cover	69122AP300	w	12,174.00
Thunder cabinet + Stainless steel jets + Cover	69122AQ300	W	12,174.00



SPA RANGE - ESSENTIAL RANGE

Equilibre E - Code 73076







WHITE (44) INFINITY CABINET

TECHNICAL FEATURES	
Size in cm (± 2cm)	216 x 167 x 74
Positions (Seats / Loungers)	3 (1 / 2)
Jets	26
Maximum consumption in low amp - (A) at 230 V	3400 W - 14.8 A

Spa coding with options generated from the table on page 269.
Options:

• FCOSpa

Description	Código	Discount group	Unit £
Metallic structure without furniture + stainless steel jets + cover	73076A4300	W	7,759.00
Infinity cabinet + stainless steel jets + cover	73076AC300	W	8,210.00

Balance E - Code 74134







WHITE (44) INFINITY CABINET

TECHNICAL FEATURES					
Size in cm (± 2cm)	198 x 198 x 74				
Positions (Seats / Loungers)	5 (3 / 2)				
Jets	31				
Maximum consumption in low amp - (A) at 230 V	3400 W - 14.6 A				

Spa coding with options generated from the table on page 269.
Options:

- ECOSpa
- Audio Bluetooth 2.

Description	Código	Discount group	Unit £
Metallic structure without furniture + stainless steel jets + cover	74134A4300	W	8,821.00
Infinity cabinet + stainless steel jets + cover	74134AC300	w	9,509.00



SPA RANGE - SWIMSPA RANGE

Swimspa Dual - Code 74238





TECHNICAL FEATURES	
Size in cm (± 2cm)	600 x 230 x 138
Places (Seats/Loungers) - Swimming area: - Spa area:	1 Vertical 4 (2/2)
Places (Seats/Loungers) - Swimming area: - Spa area:	30 Jets 16+5 Turbo jets
Maximum consumption in low amp - (A) at 230 V	9500 W / 41.3 A

Options:

 ECOSpa
 Audio Bluetooth 4.1
 Rowing Kit code 74496
 Wi-Fi Spa Control

Description	Code	Discount group	Unit £
Coastal Grey Cabinet + Stainless Steel Jets + LumiPlus + Cover	74238A1320	w	39,231.00
Urban Grey Cabinet + Stainless Steel Jets + LumiPlus + Cover	74238AB320	w	51,584.00
Metallic structure without furniture + Stainless steel jets + LumiPlus + Cover	74238A4320	w	43,471.00

Swimspa Mediterranea - Code 64414





TECHNICAL FEATURES	
Size in cm (± 2cm)	500 x 230 x 138
Positions (Seats / Loungers)	4 (2 / 2)
Jets	27 jets +
5 Turbo jets	
Maximum consumption in low amp - (A) at 230 V	7000 W / 30.5 A

Options:
• ECOSpa
• Audio Bluetooth 4.1



Description	Code	Discount group	Unit £
Coastal Grey Cabinet + Stainless Steel jets + LumiPlus + Cover	64414A1320	W	34,686.00
Urban Grey Cabinet + Stainless Steel jets + LumiPlus + Cover	64414AB320	w	41,006.00
Metallic structure without furniture + Stainless Steel jets + LumiPlus + Cover	64414A4320	w	33,135.00
For Kit + Stainless Steel jets + Colour LEDS + Digital Control Panel + Cover	65353SE311	W	31,765.00

We reserve the right to change, wholly or partially, the features of our products and the contents of this document, without prior notice.



SPA RANGE - SWIMSPA RANGE

Swimspa Creta - Code 67203





TECHNICAL FEATURES	
Size in cm (± 2cm)	400 x 230 x 138
Positions (Seats / Loungers)	4 (2 / 1 / 1)
Jets + blower nozzles	54 jets +
4 Turbo jets	
Maximum consumption in low amp - (A) at 230 V	7000 W / 30.5 A

Options:

• ECOSpa

• Audio Bluetooth 4.1

• Rowing Kit

• Wi-Fi Spa Control

Description	Code	Discount group	Unit £
Coastal Grey Cabinet + Stainless Steel jets + LumiPlus + Cover	67203A1320	W	31,779.00
Urban Grey Cabinet + White LumiPlus	67203AB320	W	37,475.00
Metallic structure without furniture + Stainless steel jets + LumiPlus + Cover	67203A4320	W	30,454.00
For Kit + Stainless Steel jets + Colour LEDS + Digital Control Panel + Cover	67587SE311	W	28,671.00

Swimspa Compact - Code 69128





TECHNICAL FEATURES			
Size in cm (± 2cm)	400 x 230 x 138		
Positions (Seats / Loungers)	1 Vertical		
Jets + blower nozzles	16+5 Turbo Jets		
Maximum consumption in low amp - (A) at 230 V	7000 W / 30.5 A		

Options:
• EcoSpa
• Audio Bluetooth 4.1
• Wi-Fi Spa Control

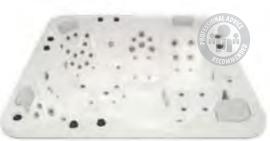
Description	Code	Discount group	Unit £
Coastal Grey Cabinet + Stainless Steel Jets + LumiPlus + Cover	69128A1320	W	31,143.00
Urban Grey Cabinet + White LumiPlus	69128AB320	W	36,839.00
Metallic structure without furniture + Stainless Steel Jets + LumiPlus + Cover	69128A4320	W	29,818.00
For kit + Stainless Steel jets + color LEDS + Digital Control Panel+ Cover	69129SE311	W	28,097.00



IN-GROUND RESIDENTIAL SPAS

Evolution 70 inground - code 49722





WHITE (44)





TECHNICAL FEATURES	
Size	233 x 233 x 90
Jets	56+16
Drain	1
Positions (Seats / Loungers)	5 (3 / 2)
Water Capacity	1.610
Empty/full Spa weight	378 Kg / 1.988 Kg
Headrest	3
Cover	Yes
LED Chromotherapy projector	Yes
Jets	Stainless steel
Aromatherapy	No
Cascade	No
Metallic structure	Yes

Supplied without control pane

Description	Code	Discount group	Unit £
Standard + Light	49722SE310	W	14,500.00
Standard + Light + Cover	49722SE311	W	15,285.00

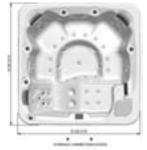
Thalassa E inground - code 78678





BLUE MARBLE (46)





TECHNICAL FEATURES				
Size	216 x 216 x 90			
Jets	28+16			
Drain	1			
Positions (Seats / Loungers)	6 (5 / 1)			
Water Capacity	980 I			
Empty/full Spa weight	330 Kg / 1310 Kg			
Headrest	3			
Cover	Yes			
LED Chromotherapy projector	Yes			
Jets	Stainless steel			
Cascade	No			
Metallic structure	Yes			

Supplied without control panel

Description	Code	Discount group	Unit £
Standard + Light	78678SE310	W	11,189.00
Standard + Light + Cover	78678SE311	W	11,942.00

We reserve the right to change, wholly or partially, the features of our products and the contents of this document, without prior notice.



PROFESSIONAL RANGE



Commercial spas with overflow channel and compact units

Spas designed for commercial spaces, gyms, wellness centres, hotels... A wide range of options and finishes that cover all needs.

Spas with both an acrylic and mosaic tile finish.

COLOUR CHART FOR SPAS



N° 44 WHITE

N° 46 BLUE MARBLE N° 59 STERLING N° 64 PEARL SHADOW N° 72 PEARL CAMEO N° 27 SILVER



While stocks last





While stocks last



N° 18 SAND

While stocks last

OPTIONAL EQUIPMENT

Chromotherapy LED spotlight, for public spas only



The Mini LED spotlight is the best option for lighting public spas. Thanks to the high intensity LEDs, lighting is similar to that attained with conventional lamps.

The range of LumiPlus Mini 2.0 projectors has a multitude of possible colour combinations and sequences with higher light intensity and better energy efficiency, which result in an 80% saving on electricity consumption compared with conventional projectors, as well as 100,000 hours of useful life time without the need for maintenance.

Chromotherapy LED spotlight option



IN-GROUND OVERFLOW COMMERCIAL SPAS

Comparison of models with an overflow channel

		13			
MODELS	Roma	Verona	Tokyo 70	Olympia	Odisea 20
	40769	70550	53990	73587	45709
Size cm (± 2 cm)	Ø 300	228 x 228	340 x 240	365 x 280	Ø 230
Positions (Seats / Loungers)	9 (9 / -)	5 (3 / 2)	7 (6 / 1)	12 (12 / -)	5 (5 / -)
Water capacity (litres)	2,290 I	1,200 I	2,200 I	2,490	1,120
Spa weight Empty	310 Kg	147 Kg	373 kg	373 kg	163 kg
Spa weight Full	2,600 Kg	1,347 Kg	2,573 kg	2,863 kg	1,283 kg
Acrylic	•	•	•	•	•
Colours	44 / 46 / 59	44 / 59 / 74 / 64 / 46	44 / 59 / 74 / 64 / 46	44 / 46 / 59	44 / 59 / 74 / 64 / 46
No of jets	18	24	58	16	8
No of air nozzles	18	12	21	16	10
Headrests	-	-	2	-	-
Piezoelectric press buttons	2	2	3	2	2
High resistance metallic structure	•	•	•	•	•
Projector	•	•	•	•	•
Chromotherapy	Op. 1 LED	Op. 1 LED	Op. 4 LED	Op. 1 LED	Op. 1 LED
Isothermal cover	Op.	Op.	Op.	Op.	Op.

					1	0	
MODELS	Mirage 40	Vulcano	Mercurio	Minerva	Venus	Neptuno	Zeus
	44630	43723	71470	71472	46027	71473	71474
Size cm (± 2 cm)	Ø 250	Ø 230	268 x 230	205 x 205	211 x 211	254 x 220	408 x 210
Positions (Seats / Loungers)	6 (6 / -)	6 (6 / -)	4 (2 / 2)	4 (2 / 2)	4 (2 / 2)	5 (5 / -)	7 (5 / 2)
Water capacity (litres)	1,410 I	1,300 I	2,000 I	1,200 I	1,230	1,200 I	2,650
Spa weight Empty	353 kg	350 kg	500 kg	650 kg	325 kg	400 kg	650 Kg
Spa weight Full	1,763 kg	1,650 kg	2,000 kg	1,850 kg	1,560 kg	1,600 kg	3,300 Kg
Mosaic	•	-	-	-	-	-	
Colours	All	Stainle	ss steel	Stainless steel			
No of jets	26	12	12	28	20	23	25
No of air nozzles	12	Equiv. to 15 nozzles	Equiv. to 32 nozzles	28	16	20	62
Headrests	-	-	•	2	2	-	•
Piezoelectric press buttons	2	•	•	2	2	2	3
High resistance metallic structure	•	•	•	•	•	•	•
Projector	•	•	•	5	4	3	2
Chromotherapy	Op. 1 LED	as standard	as standard	as standard	as standard	as standard	as standard
Isothermal cover	Op.	Ор.	Ор.	Op.	-	Ор.	Op.



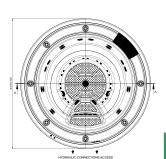
IN-GROUND OVERFLOW COMMERCIAL SPAS

Roma - Code 40769





TECHNICAL SHEET Ø 300 cm Size in cm (± 2cm) 9 (9 / -) Positions (Seats / Loungers) 18 + 18 Jets + blower nozzles



Spa cover and balance tank sold separately.
See section "Spa accessories".

Description	Code	Discount group	Unit £
ROMA + LIGHT	40769SE001	W	15,408.00
ROMA + LIGHT + COVER	40769SE006	W	17,255.00

Verona - Code 70550





TECHNICAL SHEET Size in cm (± 2cm) 228 x 228 cm 5 (3 / 2) Positions (Seats / Loungers) 24 + 12 Jets + blower nozzles

Spa cover and balance tank sold

See section "Spa accessories".

Description	Code	Discount group	Unit £
VERONA + LIGHT	70550SE001	W	14,543.00
VERONA + LIGHT + COVER	70550SE006	W	16,539.00



IN-GROUND OVERFLOW COMMERCIAL SPAS

Tokyo 70 - Code 53990

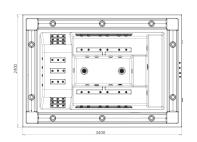




TECHNICAL SHEET	
Dimensions in cm (± 2cm)	340 x 240 cm
Positions (Seats / Loungers)	7 (6 / 1)
Jets + nozzles	58 + 21

WHITE COLOUR (44)





Spa cover and balance tank sold separately.
See section "Spa accessories".

Fully fitted with overflow channel, main drain, hydromassage and blower nozzles, hydromassage buttons and overflow grating. Balance tank not included.

Description	Code	Discount group	Unit £
Tokyo 70 + Light	53990SE315	W	29,873.00
Tokyo 70 + Light + Cover	53990SE316	W	31,811.00
Tokyo 70 Plus + Light + Cascade	53993SE315	W	30,236.00
Tokyo 70 Plus + Light + Cascade + Cover	53993SE316	W	32,174.00





IN-GROUND OVERFLOW COMMERCIAL SPAS

Olympia - Code 73587





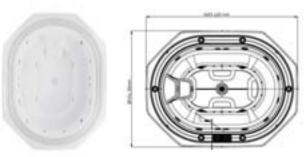
TECHNICAL SHEET	
Size in cm (± 2cm)	365 x 280 cm
Positions (Seats / Loungers)	12 (12 / -)
Jets + nozzles	16 + 20

This Spa is only available in colours 44, 46 and 59.

Spa cover and balance tank solo separately.

See section "Spa accessories".

Fully fitted with overflow channel, main drain, hydromassage and blower nozzles, hydromassage buttons and overflow grating. Balance tank not included.



Description	Code	Discount group	Unit £
Olympia + Light	73587SE001	W	22,764.00
Olympia + Light + Cover	73587SE006	W	25,686.00

Odisea 20 - Code 45709





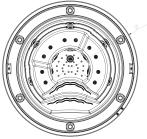
TECHNICAL SHEET	
Size in cm (± 2cm)	Ø 230 cm
Positions (Seats / Loungers)	5 (5 / -)
Jets + nozzles	8 + 10

Spa cover and balance tank solo separately.

See section "Spa accessories".

Fully fitted with overflow channel, main drain, hydromassage and blower nozzles, hydromassage buttons and overflow grating. Balance tank not included.





Description	Code	Discount group	Unit £
Odisea 20 + Light	45709SP001	W	11,935.00
Odisea 20 + Light + Cover	45709SP006	W	13,689.00



TILED SPAS

Please ask the sales office for further details

2.2 x 2.2 Freeboard



Square Freeboard Spa available in sizes:

2.03 x 2.03 2.2 x 2.2 2.3 x 2.3 2.5 x 25 3 x 3

All dimensions are nominal of shell, exclude additional tile surface and rim detail may alter depending on tile choice.

2.3 Round



Round Freeboard available in sizes:

2.13 2.3

2.8

All dimensions are nominal of shell, exclude additional tile surface and rim detail may alter depending on tile choice.

2.4 Deck Level Octagon commercial



Deck Level Octagon available in sizes:

2.4

2.5

SPAS A WELLBE



TILED SPAS

Please ask the sales office for further details.

2.5 x 2.5 Deck Level commercial



Deck Level Commercial available in sizes:

2.3 x 2.3

2.5 X 2.

3.5 x 3.5

3.0 x 3.0 Round Deck Level



Round Deck Level available in sizes:

2.5 2.6 3

All dimensions are nominal of shell, exclude additional tile surface and rim detail may alter depending on tile choice.

Please be aware that we will dispatch your order as requested, but once the goods leave our depot they then go into the carriers network and beyond our control, with restrictions changing almost daily we cannot at this time guarantee your requested delivery date, we will get the goods to you as soon as possible

3.5 x 3.5 Freeboard Vitality



Freeboard Vitality:

35 x 35

All dimensions are nominal of shell, exclude additional tile surface and rim detail may alter depending on tile choice.

We reserve the right to change, wholly or partially, the features of our products and the contents of this document, without prior notice.



COMPLEMENTS FOR SPAS



Polyester balance tank



Used for collecting water volume displaced in overflow channel of commercial spas.

	Discount group	Code	Unit £
1000 litres capacity (162x122x83 cm)	W	11372	1,142.00
2000 litres capacity (204x160x75 cm)	W	27865	1,616.00



PE balance tank



1000 litres capacity. Used for collecting water volume displaced in overflow channel of commercial spas.

	group	Code	Unit £
158x92x95 cm	w	17144	1,700.00

Differents compensations vessels availability:

Code	Balance tank	Spa model
11372	1.000 litres capacity, polyester	Casiopea, Formentera, Venecia, Coliseum, Odisea 20,
17144	1.000 litres capacity, PE	Mirage 40
27865	2.000 litres capacity, polyester	Olympia, Wellmax, Casiopea, Formentera, Venecia, Coliseum, Odisea 20, Mirage 40

ACCESSORIES



2½" adjustable jet

Regulates proportion of air/water outlet. 50 mm diameter water inlet and 32 mm diameter air inlet. Flow: 2.2 m³/hour. Pressure of 0.8 atm.

our. Pressure of 0.8 atm.	Discount group	Code	Unit £
	w	32641	32.00



2" threaded jet

50 mm diameter water inlet and 32 mm diameter air inlet. Flow 2.2 m³/hour. Pressure of 0.8 atm.

Discount group	Code	Unit £
W	33586	25.00



2" jet thread for liner

Water inlet diameter of 50 mm and air inlet diameter of 32 mm. Flow rate of 4 m³/hour Atm pressure of 0.8.

Discount group	Code	Unit £
W	70532	76.00



2" drain for spas

With elbow for glueing to \emptyset 50 mm pipe.

Discount group	Code	Unit £
w	04042	20.00



Adjustable air inlet

1" for air regulation. Controls air to Venturi system.

Discount group	Code	Unit £
W	04045	12.00



Adjustable silent air inlet

Silent venturi for jet air flow control. Air intake is through embedded part. Attaches to air distributor code 33937.

Discount group	Code	Unit £
W	33938	42.00





4 water outlet manifold

Manifold for gluing to 50 mm pipe, 4 outlets for clamping a hosepipe of 20 mm inner diameter.

Discount group	Code	Unit £
W	33934	10.00



8 water outlet manifold

Manifold for glueing to 50 mm pipe, 8 outlets for clamping a hosepipe 20 mm inner diameter.

Discount group	Code	Unit £
W	33935	13.00



5 outlet air distributor for venturi

5 outlet manifold for gluing to venturi with code 33938. Outlets for clamping a flexible hosepipe of 10 mm inner diameter.

Discount group	Code	Unit £
W	33937	13.00



6 outlet air distributor for venturi

6 outlet air distributor to attach to pipes with a 10 mm inside diameter and glue to 15 mm pipes. 6 water outlet manifold.

Discount group	Code	Unit £
W	33936	13.00



10 outlet air distributor

10 outlet air distributor to attach to pipes with a 10 mm inside diameter and glue to 50 mm pipes. 10 water outlet manifold.

Discount group	Code	Unit £
W	35346	14.00



Threaded blower nozzle

For air distribution into the SPA from of the blowers.

	group	Code	Unit £
White plastic front panel	W	27602	7.00
Stainless steel front panel	W	43440	13.00



Blower nozzle for glueing

For air distribution into the SPA by means of the blowers.

	group	Code	Unit £
White plastic front panel	W	28460	7.00
Stainless steel front panel	W	43441	13.00



Blower nozzle 3/8"

For distribution into the SPA by means of the blowers.

	Discount group	Code	Unit £	
White plastic front panel	W	34318	9.00	
Stainless steel front panel	W	43442	14.00	



2" return unit

For return line and massage.

Discount group	Code	Unit £
W	04034	9.00



Adjustable air impulsion inlet

Adjustable air impulsion inlet. For air distribution by means of the blowers. Maximum flow rate 18 m³/h.

Discount group	Code	Unit £
W	49818	30.00



Pneumatic pressbutton

To operate air blowers, jets and massage jets.

	group		
For maximum 15 m	W	04047	79.00
For maximum 7 m single	W	04048	38.00
For maximum 7 m single, thread	W	09667	81.00

Plastic tube per metre

For pneumatic signal from pressbutton to switch. Inner \emptyset 3.5 mm.

Discount group	Code	Unit £
w	04054	1.00





Rotating jet

Discount group	Code	Unit £
W	20297	48.00



Twin rotating jet

Discount group	Code	Unit £
W	20296	48.00



Rotating jet housing

	Discount	Code	Unit £
	group		
	W	20299	38.00
Body jet liner pool	W	63144	78.00



$2^{1}/_{2}$ " wall conduit for rotating jet

Made up of: The jet body, 20 cm wall conduit, niche, threaded filting, front body. Jet not included.

Disco gro		Code	Unit £
W	ı	20295	84.00





Range of accesories which enables spa jets to built into the spa Pool.



Pool Jet 1, Tilting

Flow rate of 2.4 to 3.6 m 3 /h. Glands compatible with 2 $\frac{1}{2}$ ".

	Discount group	Code	Unit £
Stainless finish*	w	63148	41.00
White finish	w	63149	33.00



Jet 1 Rotates

Flow rate of 2.4 to 3.6 m 3 /h. Glands compatible with 2 $\frac{1}{2}$ ".

	Discount group	Code	Unit £
Stainless finish * White finish	W W	63150 63151	50.00 42.00



Jet 2 Rotates

Flow rate of 2.4 to 3.6 m³/h. Glands compatible with 2 $\frac{1}{2}$ ".

	Discount group	Code	Unit £
Stainless finish * White finish	w	63152	50.00
	w	63153	42.00



Honeycomb Rotary Jet

Flow rate of 2.4 to 3.6 m³/h. Glands compatible with 2 $\frac{1}{2}$ ".

	Discount group	Code	Unit £
Stainless finish * White finish	W	63154	50.00
	W	63155	42.00



2 1/2" for Jet Pool

With elbow for gluing pipe \emptyset 50 mm.

Discount group	Code	Unit £
W	63146	100.00





Air controller

3/4", controls air massage to Venturi system for jet function.

	Discount group	Code	Unit £
White plastic front panel	W	04110	40.00



Pneumatic switch

For the starting and stopping of massage and hydromassage functions.

	Discount group	Code	Unit £
White plastic front panel	w	04113	49.00



1 11/4" jet with adapter to water return

Jet with adaptor to return water to pipe. Also adaptor to connect to water return and air circulation pipe, solvent for inner Ø 32 mm. Directional

for inner Ø 32 mm. Directional.	Discount group	Code	Unit £
White plastic front panel (inlet 04103)	W	04097	27.00



Jet 11/4"

With adaptor to connect to return water pipe and Venturi to glue to Ø 32 mm pipe. Directional.

	Discount group	Code	Unit £
White plastic front panel (inlet 04103)	W	04094	19.00



11/4" return inlet

	Discount group	Code	Unit £
White plastic	W	04103	11.00

ACCESSORIES FOR MINISPAS



Programmable digital thermostat

To operate ON/OF contactor.

Discount group	Code	Unit £
W	11288	307.00



Electropneumatic equipment

With two switches. Up to 1.47 kW (2 HP).

Discount group	Code	Unit £
W	04053	307.00



Pneumatic switch

For the starting and stopping of massage and hydromassage functions.

	group	Code	Offit L
Pneumatic switch	W	04050	56.00
Double pneumatic switch	W	11290	86.00
Pneumatic presostate	W	11291	57.00



AIR BLOWERS



Now includes
Air Filters

Air blowers



Air pump designed for spas, baths, hydromassage installations and similar which produces a constant stream of air bubbles at medium and high air volume levels. It can also be used to stir up the filter bed, for example in back wash cycles where a low intensity air current is required. The filter casing and impeller are made from an injected aluminium alloy whilst the motor spindle is manufactured from stainless steel, with the impeller dynamically balanced and directly adapted to the spindle. The motors, single phase or 3 phase for continuous use, are made from steel in compliance with CEI 2/3 1988 regulations, and feature IP54 external protection and class-F insulation. The standard voltages are100-120/200-240V for the monophase range and 200-240/380-440V for the triphase models, at 50/60Hz. The pumps can be mounted horizontally or vertically. Moreover, since there is no contact between the mobile parts and the pump static discharges, neither lubrication nor maintenance is necessary and is also doesn't cause wear on the parts. The turbines have a maximum working temperature of 40°C. Do not use in conjunction with aggressive, inflammable or explosive gases.

Please consult for technical variations.

Model	Phase	Flow (m ³ /h)	Max. Pressure (mbar)	Electrical supply (V)	Sound level (dB)	Code	Discount group	Unit £
Blower 0.85 kW	1	145	160	230	63	35388-2450	D	787.00
Blower 0.85 kW	3	145	160	Δ 220-240 Y 345-415	63	35387-2450	D	803.00
Blower 1.3 kW	1	210	160	230	64	31090-2450	D	949.00
Blower 1.3 kW	3	210	170	Δ 200-240 Y 345-415	64	31091-2450	D	949.00
Blower 1.5 kW	1	210	200	230	64	33971-2450	D	1,087.00
Blower 1.6 kW	3	210	190	Δ 200-240 Y 345-415	64	31092-2450	D	1,036.00
Blower 1.6 kW 2V	3	150	280	Δ 200-240 Y 345-415	66	35389-2450	D	1,239.00
Blower 2.2 kW	3	190	200	Δ 200-240 Y 345-415	69	31093-2450	D	1,286.00
Blower 3.4 kW 2V	3	230	410	Δ 200-240 Y 345-415	72	31094-2450	D	1,826.00
Blower 3.0 kW	3	318	290	Δ 200-240 Y 345-415	69	31095-2450	D	1,440.00
Blower 4.3 kW 2V	3	320	380	Δ 345-415 Y 600-720	73	31096-2450	D	2,370.00
Blower 5.5 kW	3	530	300	Δ 345-415 Y 600-720	70	31097-2450	D	3,129.00
Blower 5.5 kW 2V	3	320	500	Δ 345-415 Y 600-720	73	33972-2450	D	2,894.00
Blower 7.5 kW	3	530	430	Δ 345-415 Y 600-720	70	31098-2450	D	3,383.00
Blower 11 kW 2V	3	520	600	Δ 345-415 Y 600-720	74	33973-2450	D	5,469.00
Blower 12.5 kW	3	1050	270	Δ 345-415 Y 600-720	74	33974-2450	D	6,718.00

Airblowers with 2V after description = side entry.



Intermittent operation air blower, 900 W

Discount group	Code	Unit £
W	19289	614.00

0.90 kW flow 54 m³/h at 1.5 m water head





- 302 Swimming pool heating solutions
- 305 Air-water heat pumps for outdoor installation
- 310 Air-water heat pumps for indoor installation
- 311 Water-air chillers for indoor or outdoor installation
- 313 Heatstar
- 320 Tubular Heat exchangers
- 322 Water-water exchanger
- 324 Plate Heat exchangers
- 326 Electric heaters
- 327 Electric tubular air & water heaters



SWIMMING POOL HEATING SOLUTIONS

Equipping a pool with a heating solution means freedom from the vagaries of the weather and extending its use period. Heat pumps, electric heaters, heat exchangers - the AstralPool® product range allows everyone to enjoy water at a constant ideal temperature.

Parameters for choosing a heating system

To define a system suitable for a pool, you need to know its volume (in m³), the desired use period and estimate the temperature (in °C) the water in the pool should reach.

These simple parameters will enable you to size the heating system correctly and will guarantee you maximum comfort at a lower cost.

The choice of heating equipment also depends on the energy source that will be used.

COMPARATIVE TABLE OF RANGES					
	Heat pumps	Electric heaters	Heat exchangers		
SOLUTION	Stand-alone, dedicated to the pool	Stand-alone, dedicated to the pool	Coupled to the domestic heating		
ENERGY USED	Renewable	Electricity	Domestic heating source (gas, oil, electricity, renewable, etc.)		
RUNNING COST	€	€€€	€ to €€€		
INVESTMENT	€€	€	€		
ADVANTAGES	Energy efficient Low operating cost	Simple installation Rapid temperature increase	Rapid temperature increase (if gas/oil boiler) Compatible with all heating systems		
USES	All open air or indoor pools	Spas and pools used at weekends or holiday homes	Indoor and outdoor pools close to the boiler in the house		

What type of defrosting?

When the outside temperature is low, the evaporator will tend to ice up, which reduces its efficiency: this ice must therefore be removed. There are 2 types of defrosting:

. Defrosting by ventilation or economical defrosting

The cooling circuit is stopped for a few minutes. Only the fan operates, forcing outside air to defrost naturally. This type of defrosting will work well for a seasonal use.

• Defrosting by cycle inversion or intensive defrosting

The cooling circuit is reversed: calories from the pool water are used to defrost the evaporator. This defrost type allows operation at lower temperatures.



SWIMMING POOL HEATING SOLUTIONS

How is the performance of heat pumps compared?

To compare the performance of different heat pumps, it is essential to compare power supplied and performance coefficient. Two main values characterise the performance of heat pumps: their power and their performance coefficient.

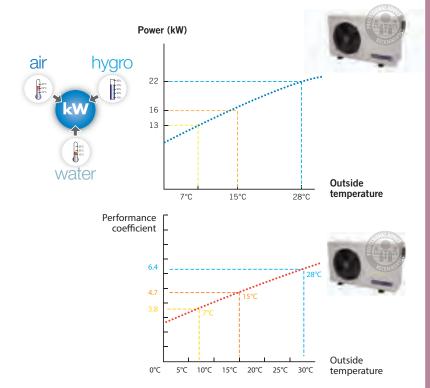
• Power, expressed in kW, indicates the quantity of heat transferred to the water.

It varies depending on three conditions to which the heat pump is exposed during use: temperature of the outside air, humidity of the outside air and temperature of the water in the pool.

 The coefficient of performance (COP) is the ratio between the power supplied to the water in the pool and the power consumption of the heat pump.

As an example, a performance coefficient of 4 means that for 1 kWh consumed at the electricity meter, the heat supplies 4 times more energy to the water in the pool, or 4 kWh.

So the higher the performance coefficient, the more efficient the system.



Recommendations for installing a swimming pool heat pump

A heat pump system includes 'moving' parts (compressor, fan, etc.), vibrations from which can spread and build up.

To avoid or reduce disturbances, a few installation rules should be followed:

- Favour open spaces (avoid corners or interior courtyards), because sound waves coming from all sides of the system are reflected by the surfaces facing them.
- · Do not install the system below or facing a window.
- Relative to neighbouring properties:
 - Install the system as far as possible from property boundaries.
 - The fan should not point towards neighbouring properties.



SWIMMING POOL HEATING SOLUTIONS

Full Inverter technology

Inverter technology enables a heat pump to change its power mode depending on the temperature of the pool water and the weather conditions. It therefore runs to achieve the best energy efficiency at the lowest noise level.

3 operating modes:

1. Silent: Ideal to maintain the temperature or at night time

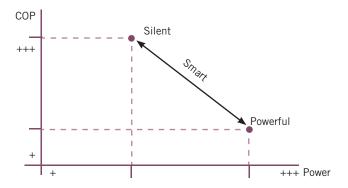
- · Heat Pump runs at low power setting
- Compressor operates on low speed ranges to minimize energy consumption
- · Lowest noise and highest COP

2. Smart: Normal use

- Compressor operates smartly from low to high speed ranges
- · Reduced noise and energy consumption

3. Powerful: Ideal to begin the season or to operate in cold conditions

- · Heat Pump runs at high power setting
- · Compressor operates on high speed ranges to heat the pool faster
- Maximum heating power



Vertical blowing

Vertical air blowing is typically suitable for small spaces as a reduced free area is required around the unit.

Automatic heat / cool mode

The heat pump will switch automatically from heat to cool mode to stabilize the temperature at the desired target.

Soft starter

When no inverter, for high power units, the soft starter will prevent peak currents when the Heat Pump starts, thus avoiding the main fuse/breaker to trip and ensuring the viability of components.



FULL NVERTER

AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION



Pro Elyo Touch

- Full inverter technology: silent and energy saving. 8 power levels from 8.5 kW to 35 kW*.
- 20°C lowest outdoor air working temperature.

*Temperature conditions of 28°C Air / 28°C Water

Technical features:

- New, wide LED touchscreen.
- Optional remote control kit.
- Heating priority mode (filtration pump control).
- ABS plastic housing with new injected fan grid; galvanized steel protection grid around the evaporator.
- DC, variable speed fan.
- Automatic cooling mode.
- Automatic defrosting.
- HP & LP safety pressure switch.
- Water flow switch.
- Titanium water exchanger condenser.
- Inverter Rotary compressor.
- Electronic expansion valve.



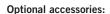
- 1 x Winter Cover.
- 4 x Anti-vibration feet.
- Condensate drainage kit.
- 1 x 10m Modbus Signal wire (to connect the heat pump to the Connect Box).
- 2 x PVC fittings ½ union Ø 50.







AstralPool Toolbox app for IOS and Android



· Remote display kit. Code: 74199.









group		
Р	74166	1,730.00
P	74167	2,081.00
P	74168	2,357.00
P	74169	2,720.00
Р	74170	3,373.00
P	74171	4,345.00
P	74172	5,061.00
P	74173	5,859.00
P	74174	5,178.00
P	74175	5,970.00

TECHNICAL FEATU	RES												
	MC	DELS	PET-08	PET-10	PET-13	PET-15	PET-19	PET-25	PET-30	PET-35	PET-30T	PET-35T	
CODES			74166	74167	74168	74169	74170	74171	74172	74173	74174	74175	
REFRIGERANT FLUID						R	32				R4	10A	
RECOMMENDED WATER FL	0W	m³/h	4	5	6	7	8	10		1	.3		
HYDRAULIC CONNECTION		mm					PVC 1/2 i	ınion Ø50					
ELECTRIC POWER SUPPLY		V/Ph/Hz		220*240V/ 50Hz or 60Hz/ 1PH						380V/ 50Hz	or 60Hz/ 3PH		
RATED CURRENT		Α	4.6	5.9	7.2	9.2	10.5	13.2	17.0	22.9	7	8.4	
MAXIMUM OPERATING CURRENT A		А	6.4	8.3	10.0	13.0	14.7	18.5	24.0	32.0	9.8	11.8	
RECOMMENDED POWER C	ABLE SECTION (1)		3x	3x1.5 3x2.5 3x4 3x6					3x6	5x2.5	5x4		
REFRIGERANT FLUID QUAN	ITITY	Kg	0.65	0.7	1	1.1	1.5	1.9	2	2.6	3.8	4	
ACOUSTIC PRESSURE (Lp)	AT 1M	dB(A)	38-51	39-52	40-52	40-54	40-54	41-56	42-60	42-60	42-60	42-60	
NET WEIGHT		Kg	56	68	73	78	98	117	128	130	128	130	
NET DIMENSION (WxDxH)		mm	1008*380*577		1050*440*709		1050*4	50*870		1050*4	460*1285		
NUMBER OF FANS		units				1					2		
HEATING PERFORMANCE	(2) (3)												
PERFORMANCE AT	HEATING CAPACITY	kW	8.50 - 3.1	10.5 - 2.3	13.5 - 3	15.9 - 3	19.8- 3.8	25.5 - 4.7	30.0 - 6	35 - 8	30.0 - 6	35 - 8	
AIR 28°C. WATER 28°C.	POWER CONSUMPTION	kW	1.5 - 0.2	1.7 - 0.15	2.2 - 0.2	2.6 - 0.2	3.3 - 0.25	4.2 - 0.3	5 - 0.35	5.9 - 0.5	5 - 0.35	5.9 - 0.5	
RELATIVE HUMIDITY 80%	C.O.P		5.8 - 15	5.8 - 15 6.2 - 16					6 - 16	6 - 16			
PERFORMANCE AT	HEATING CAPACITY	kW	6.0 - 2.5	7.5 - 2	9.0 - 2	11.0 - 2.5	13 - 3	17 - 4	21.0 - 5.5	25.0 - 5.5	21.0 - 5.5	25.0 - 5.5	
AIR 15°C. WATER 26°C.	POWER CONSUMPTION	kW	1.4 - 0.3	1.75 - 0.25	2.0 - 0.25	2.5 - 0.3	2.9 - 0.4	3.9 - 0.5	4.6 - 0.7	5.4 - 0.7	4.6 - 0.7	5.4 - 0.7	
RELATIVE HUMIDITY 70%	C.O.P						4.5	- 8					

⁽¹⁾ For a maximum length of 20 meters.

⁽²⁾ Power, expressed in kW, indicates the quantity of heat transferred to the water. It varies depending on 3 conditions: temperature of the outside air, humidity of the outside air and temperature of the water in the pool. To compare the performances of different heat pumps, it is a must to compare Power and COP under the same conditions.

⁽³⁾ Value with Max-Min compressor speed.

AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION





- Smooth and quiet performance down to 0°C outdoor air temperature.
- · Heating and Cooling regulation.

*Temperature conditions of 28°C Air / 28°C Water









Fluidra Connect compatible

Accessories included:

• 4 x Anti-vibration feet. • Condensate drainage kit. • 1 x Remote display kit (including 10m extension cable). • 2 x PVC fittings Ø 50.

• 1 x Winter Cover.

AstralPool Toolbox app for IOS and Android

Technical features:

- LCD (LED) display, detachable.
- Heating priority mode (filtration pump control).
- ABS plastic housing.
- Automatic cooling mode.
- · Automatic defrosting.
- HP & LP safety pressure switch.
- · Water flow switch.
- Titanium water exchanger condenser.
- · Scroll compressor.
- · Capillary expansion valve.

	Discount group	Code	Unit £	
EvoLine 6 - 3.6 kW	P	66069-R32	1,365.00	
EvoLine 10 - 6.2 kW	P	66070-R32	1,802.00	
EvoLine 13 - 7.1 kW	Р	66071-R32	2,041.00	
EvoLine 15 - 8.7 kW	Р	66072-R32	2,358.00	
EvoLine 17 - 9.7 kW	Р	67405-R32	2,495.00	
EvoLine 20 - 12.9 kW	Р	66073M-R32	3,010.00	
EvoLine 20 - 12.9 kW	Р	66073-R32	3,143.00	
EvoLine 25 - 17.9 kW	Р	66074M-MOD	3,938.00	
EvoLine 25M - 16.9 kW	Р	66074-R32	3,503.00	
EvoLine 35 - 24.8 kW	Р	66075-MOD	6,052.00	

TECHNICAL SPE	CIFICATION	S												
	M	ODELS	EVOLINE 6	EVOLINE 10	EVOLINE 13	EVOLINE 15	EVOLINE 17	EVOLINE 20 (4)	EVOLINE 25	EVOLINE 20T	EVOLINE 25T	EVOLINE 35T (4)	EVOLINE 20-R410A (3)	EVOLINE 35T-R410A (3)
	codes 6				66071-R32	66072-R32	67405-R32	66073M- R32	66074M- MOD	66073-R32	66074- R32	66075- R32	66073- Mod	66075- Mod
REFRIGERANT FLUID					RS	32			R410A		R32		R4	10A
RECOMMENDED WATER	R FLOW	m³/h	2.5	4.5	6	7.5	9	11	13	11	13	19	11	19
HYDRAULIC CONNECTI	ON	mm												
ELECTRIC POWER SUP	PLY	V/Ph/Hz	220~240/1/50						220~240/1/50		380/3/50		220~240/1/50	380/3/50
RATED CURRENT		А	4.1	6.2	8.9	9.7	11	13.5	16.8	5.1	5.6	10.1	15.9	10.1
MAXIMUM OPERATING	CURRENT	A	5.3	8	11.6	12.6	14.2	20.3	25.2	6.7	7.3	13.6	23.9	15.2
RECOMMENDED POWER	CABLE SECTION (1)		3*1.5	1.5 3*2.5			3	*4	5*:	2.5	5*4	3*4	5*4	
REFRIGERANT FLUID O	UANTITY	Kg	0.4	0.8	0.9	1.1	1.15	1.1	2.3	1.25	1.2	2.2	1.7	2.6
ACOUSTIC PRESSURE (L	p) AT 1M	dB(A)	<55	</th <th>52</th> <th><56</th> <th><51</th> <th><59</th> <th><56</th> <th colspan="2"><59 <60</th> <th>:60</th> <th><56</th> <th><57</th>	52	<56	<51	<59	<56	<59 <60		:60	<56	<57
NET WEIGHT		Kg	33	48	54	60	68	92	99	92	103	120	91	120
NET DIMENSION (WxD)	(H)	mm	798x293x511	958x360x581	1015x3	70x621	1080x4	16x708	1078x416x958	1080x416x708	1078x416x958	1078x446x1258	1080x416x708	1078x446x1258
NUMBER OF FANS		units					1					2	1	2
HEATING PERFORMA	NCE (2)													
PERFORMANCE AT AIR 28°C.	HEATING CAPACITY	kW	4.7	7.4	10.4	11.6	14.9	17.4	22.7	18.5	22.3	30.9	17.6	32.3
WATER 28°C, RELATIVE HUMIDITY	POWER CONSUMPTION	kW	0.9	1.3	1.9	2.1	2.4	2.9	3.6	3.0	3.2	4.9	3.2	5.6
70%	C.O.P		5.4	5.6	5.4	5.6	6.3	5.9	6.4	6.3	6.9	6.4	5.4	5.8
PERFORMANCE AT AIR 15°C.	HEATING Capacity	kW	3.2	5.5	7.6	8.4	10.7	12.9	16.3	13.4	16.1	22.8	12.4	23.4
WATER 26°C, RELATIVE HUMIDITY	POWER CONSUMPTION	kW	0.8	1.2	1.7	1.9	2.2	2.8	3.5	2.9	3.2	4.8	3.1	5.1
70%	C.O.P		4.0	4.7	4.	.5	4.9	4.6	4	.7	5.0	4.8	4.0	4.6

⁽¹⁾ For a maximum length of 20 meters.

⁽²⁾ Power, expressed in kW, indicates the quantity of heat transferred to the water. It varies depending on 3 conditions: temperature of the outside air, humidity of the outside air and temperature of the water in the pool. To compare the performances of different heat pumps, it is a must to compare Power and COP under the same conditions.

⁽³⁾ Product available until stocks last.

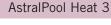
 $^{^{(4)}}$ Available during 2021 season, once R410 equivalents are sold out.

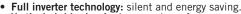


FULL NVERTER

AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION





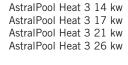


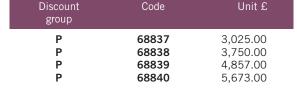
- Vertical air blowing for increased comfort
- -20°C lowest outdoor air working temperature.

Technical features:

- Detachable display.
- Digital touchscreen.
- Heating priority mode (filtration pump control).
- ABS plastic housing. DC, variable speed fan (automatic or manual).
- Automatic cooling mode.
- Automatic defrosting.
- HP & LP safety pressure switch.
- Water flow switch.
- Titanium water exchanger condenser.
- Inverter Rotary compressor.
- Electronic expansion valve.













AstralPool Toolbox app for IOS and Android

Accessories included:

- 1 x Winter Cover.
- 4 x Anti-vibration feet.
- 3 x Water nozzles.
- 1 x 4-way connection.
- 4 x Drain hoses.
- 1 x 10m Signal wire (to connect the screen remotely).
- 1 x screen waterproof box (to replace the remote screen on the Heat Pump).
- 1 x 10m Modbus Signal wire (to connect the Heat Pump to the Connect Box).
- 2 x PVC fittings Ø 50.

TECHNICAL FEAT	URES							
	M	ODELS	14 kW	17 kW	21 kW	26 kW		
	(CODES	68837	68838	68839	68840		
INDICATIVE POOL VOLUM	E (1)	m³	≤ 66	≤ 86	≤ 122	≤ 135		
REFRIGERANT FLUID			R32	R32	R32	R32		
AVERAGE WATER FLOW		m³/h	4	5	6	8		
HYDRAULIC CONNECTION	l	mm		Ø:	50			
ELECTRIC POWER SUPPI	Y	V/Ph/Hz		220~240V/ 50Hz or 60Hz/1PH				
RATED CURRENT		А	8.1	9.8 12 16				
MAXIMUM OPERATING CI	JRRENT	A	11.5	14 17 22.5				
RECOMMENDED POWER	CABLE SECTION (2)		3x2	3x2.5 3x4				
REFRIGERANT FLUID QUA	ANTITY	Kg	1.4	1.	.8	2.6		
ACOUSTIC PRESSURE (L) Mode	AT 1M HEATING	dB(A)	40-54	41-	42-60			
NET WEIGHT		Kg	70	75 92		111		
NET DIMENSION (WxDxH		mm	820*69	95*830	950*90	0*1025		
HEATING PERFORMANC	E (3) (4)							
PERFORMANCE AT	HEATING CAPACITY	kW	3 - 14	3.6 - 17	4.6 - 21	6 - 26		
AIR 28°C. WATER 28°C.	POWER CONSUMPTION	kW	0.2 - 2.1	0.3 - 2.5	0.4 - 3.1	0.5 - 3.9		
HUMIDITY 80%	C.O.P							
PERFORMANCE AT	HEATING CAPACITY	kW	2.1 - 9.6	2.5 - 11.5	3.2 - 14.3	4.2 - 18.5		
AIR 15°C. WATER	POWER CONSUMPTION	kW	0.2 - 1.9	0.3 - 2.3	0.4 - 2.9	0.5 - 3.6		
26°C. HUMIDITY 70%	C.O.P			8.5 -	- 5.1			
		kW	0.2 - 1.9			0.5 - 3.6		

⁽¹⁾ Estimated average values for a private pool with isothermal cover. from 15 May to 15 September. For an accurrate sizing, please consult our configurator AstralPool.

⁽²⁾ For a maximum length of 20 meters.

⁽³⁾ Power, expressed in kW, indicates the quantity of heat transferred to the water. It varies depending on 3 conditions: temperature of the outside air, humidity of the outside air and temperature of the water in the pool. To compare the performances of different heat pumps, it is a must to compare Power and COP under the same conditions.

⁽⁴⁾ Value with Min-Max compressor speed.

AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION







- · 0°C minimum outdoor air temperature.
- 2 models: Standard and Chiller.
- Digital display.
- Heating priority mode (filtration pump control).
- Robust, lightweight casing made from corrosion-resistant magnesium coated aluminium.
- Axial ventilator.
- Automatic cooling mode for chiller model.
- · Automatic defrosting.
- HP & LP safety pressure switch.
- Water flow switch.
- G2 Titanium water exchanger condensers. Guaranteed against corrosion.
- · Scroll compressor.
- Thermostatic expansion valve, with external balancing unit.
- High performance evaporator battery in an inner corrugated copper tube with lacquered aluminium fins, especially for corrosive environments.
- Control of purifying system.
- Automatic electrical protections.



Web
Heat pump configurator:
www.astralpool.com ->
Calculation tools

	Discount group	Code	Unit £
Standard Proheat II 35 Proheat II 45 Proheat II 60 Proheat II 90 Proheat II 120	P P P P	65542-MOB 65543-MOB 65544-MOB 65545-MOB 65546-MOB	13,755.00 17,016.00 19,702.00 29,426.00 35,224.00
Chiller Proheat II Chiller 35 Proheat II Chiller 45 Proheat II Chiller 60 Proheat II Chiller 90 Proheat II Chiller 120	P P P P	68245-MOB 68246-MOB 68247-MOB 68248-MOB 68249-MOB	18,241.00 20,050.00 24,193.00 36,975.00 42,857.00





AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION

Proheat II

		MODELS	PROHEAT II 35	PROHEAT II 45	PROHEAT II 60	PROHEAT II 90	PROHEAT II 120
	Code	STANDARD	65542-MOB	65543-MOB	65544-MOB	65545-MOB	65546-MOB
		CHILLER	68245-MOB	68246-MOB	68247-MOB	68248-MOB	68249-MOB
	REFRIGERANT				R-410A		
W	ATER FLOW RATE	m³/h	12-15	15-25	25-35	30-50	50-70
Ø WAT	ER CONNECTION	mm	6	3		75	
REFRIGERANT GAS CHARGE		kg	4	6	9	2 x 6.5	2 x 9
	NUMBER OF FAN			1			2
	VOLTAGE	V/Ph/Hz			400/3/50		
	SOUND LEVE	dbA (d*)	66.2	66.2	72.5	71.1	71.1
	SOUND LEVEL	dbA (5 m)	60.9	60.9	68.4	69.4	69.4
25°C T ^a AIR 26°C T ^a WATER	INPUT POWER	kW	6.4	8.2	11.9	17.0	24.3
	OUTPUT POWER	kW	36.2	44.4	63.5	91.3	125.5
	СОР		5.7	5.4	5.3	5.4	5.2
15°C T° AIR 26°C T° WATER	INPUT POWER	kW	6.2	8.1	11.5	16.8	23.9
	OUTPUT POWER	kW	30.5	39.7	56.8	80.2	110.5
	СОР		4.9	4.9	4.9	4.8	4.6
	INPUT POWER	kW	6.0	7.9	10.7	16.2	22.7
5°C T° AIR 26°C T° WATER	OUTPUT POWER	kW	23.2	30.0	41.3	61.0	80.1
	СОР		3.9	3.8	3.9	3.8	3.5
HILLER MODE							
30°C AIR TEM-	INPUT POWER	kW	7.0	8.4	12.0	17.3	24.4
PERATURE 26°C WATER	OUTPUT POWER	kW	42.3	51.0	72.0	104.0	140.0
EMPERATURE	EER		6.0	6.1	6.0	6.0	5.7
43°C AIR TEM-	INPUT POWER	kW	9.4	11.9	15.6	24.5	31.2
PERATURE 32°C WATER	OUTPUT POWER	kW	29.1	37.0	49.5	74.0	99.0
EMPERATURE	EER		3.1	3.1	3.2	3.0	3.2
TANDARD AND	CHILLER MODELS	5					
	SIZE						
	С	A (mm)	10	00	1700	2100	2400
	A	B (mm)	9!	50		1200	
В		C (mm)	11	40	1200	1500	1700
	NET WEIGHT	kg	185	210	287	447	500

NOTE: d* = As per UNE-EN 12102/ISO 3744:2010.

AIR-WATER HEAT PUMPS FOR INDOOR INSTALLATION







- 0°C minimum outdoor air temperature.
- Digital display, easy-to-use control panel, with display of current temperature, setpoint and alarm messages.
- Heating priority mode (filtration pump control).
- Robust, lightweight casing made from corrosion-resistant magnesium coated aluminium.
- Avial ventilator
- Automatic cooling mode (chiller model).
- Automatic defrosting.
- HP & LP safety pressure switch.
- Water flow switch.
- G2 Titanium water exchanger condensers. Guaranteed against corrosion.
- Scroll compressor.
- Thermostatic expansion valve, with external balancing unit.
- High performance evaporator battery in an inner corrugated copper tube with lacquered aluminium fins, especially for corrosive environments.
- · Control of purifying system.
- · Automatic electrical protections.
- Centrifugal fans so the unit will be installed in a technical room, using air ducting.





AstralPool Toolbox app for IOS and Android

Web
Heat pump configurator:
www.astralpool.com ->
Calculation tools

	group	Code	OIII L	
Standard				
PROHEAT II IND-35	P	69649-MOB	19,684.00	
PROHEAT II IND-45	Р	69650-MOB	21,969.00	
PROHEAT II IND-60	Р	69651-MOB	24,992.00	
PROHEAT II IND-90	Р	69652-MOB	31,191.00	
PROHEAT II IND-120	Р	69653-MOB	35,625.00	

TECHNICAL SP	ECIFICATIONS									
		MODELS	PROHEAT II IND-35	PROHEAT II IND-45	PROHEAT II IND-60	PROHEAT II IND-90	PROHEAT II IND-120			
		CODE	69649-MOB	69650-MOB	69651-MOB	69652-MOB	69653-MOB			
	REFRIGERANT FLUID			R-410A						
RECO	OMMENDED WATER FLOW	m³/h	12-15	15-25	25-35	30-50	50-70			
	HYDRAULIC CONNECTION	mm	6	3		75				
REFR	IGERANT FLUID QUANTITY	kg	6	9	12 2 x 7 2 x 9					
	NUMBER OF FANS			1		2	2			
	ELECTRIC POWER SUPPLY	V/Ph/Hz		400/3/50						
	SOUND LEVEL	dbA (d*)	59.2	59.6	60.0	61.1	61.5			
	SOUND LEVEL	dbA (5 m)	55.4	55.8	56.1	56.5	56.6			
0500 53 445	POWER CONSUMPTION	kW	6.7	9.4	11.8	18.7	23.6			
25°C T° AIR 26°C T° WATER	HEATING CAPACITY	kW	43.6	56.6	71.0	113.1	141.9			
2001 WATER	COP		6.5	6.0	6.0	6.0	6.0			
1500 53 415	POWER CONSUMPTION	kW	6.4	8.6	11.0	17.1	22.1			
15°C T° AIR 26°C T° WATER	HEATING CAPACITY	kW	34.9	45.0	57.5	90.1	114.9			
2001 WATER	COP		5.4	5.3	5.2	5.3	5.2			
F00 T2 AID	POWER CONSUMPTION	kW	6.5	8.5	11.2	16.9	22.3			
5°C T° AIR 26°C T° WATER	HEATING CAPACITY	kW	27.4	35.2	45.2	70.5	90.3			
	COP		4.2	4.2	4.1	4.2	4.1			

NOTE: d* = As per UNE-EN 12102/ISO 3744:2010.



WATER-AIR CHILLERS FOR INDOOR OR OUTDOOR INSTALLATION









COMPATIBLE

NN

thing



Fluidra Connec

Includes Modbus connection

The fan is fitted vertically in the Alaska 10, 15 and 17 models

Alaska - Siberia

- +5°C minimum outdoor air temperature.
- 2 compact models: For outdoor (Alaska) or indoor (Siberia) installation.
- · Digital display.
- Heating priority (filtration pump control).
- Made of non-corrosive magnesium coated aluminium.
- · Helicoidal ventilators with direct coupling motor for the Alaska model, centrifugal for the Siberia model.
- Defrosting thermostat in evaporator for enhanced performance.
- HP & LP safety pressure switch.
- · Water flow switch.
- Condensor made of copper pipe with coated aluminium fins (special for corrosive environments).
- Scroll compressor with carter resistance and deoxidized copper.
- Thermostatic expansion valve.
- Titanium evaporator with PVC shell and in G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Anti-acid dehydrating filter.

	Discount group	Code	Unit £
Alaska-4	Р	32535-MOB	9,302.00
Alaska-6	Р	32536-MOB	10,628.00
Alaska-8	Р	32537-MOB	12,034.00
Alaska-10	Р	32538-MOB	14,446.00
Alaska-15	Р	32540-MOB	19,285.00
Alaska-17	Р	32541-MOB	21,384.00
Siberia-4	Р	33301-MOB	9,327.00
Siberia-6	Р	33302-MOB	11,684.00
Siberia-8	Р	33303-MOB	12,698.00
Siberia-10	Р	33304-MOB	15,871.00
Siberia-15	Р	33306-MOB	19,034.00
Siberia-17	Р	33307-MOB	22,137.00

TECHNICAL SPE	CIFICATIONS									
		MODELS	ALASKA-4	ALASKA-6	ALASKA-8	ALASKA-10	ALASKA-15	ALASKA-17		
		CODE	32535-MOB	32536-MOB	32537-MOB	32538-MOB	32540-MOB	32541-MOB		
		MODELS	SIBERIA-4	SIBERIA-6	SIBERIA-8	SIBERIA-10	SIBERIA-15	SIBERIA-17		
		CODE	33301-MOB	33302-MOB	33303-MOB	33304-MOB	33306-MOB	33307-MOB		
	REFRIGERANT FLUID		R-407C							
RECOM	MENDED POOL VOLUMNE	m³	5-9	7-14	10-20	13-26	18-36	25-50		
RECO	MMENDED WATER FLOW	m³/h	6 - 10	6 - 10	7 - 12	7 - 12	10 - 15	10 - 15		
AIR FLOW m ³ /			3800	4900	5500	9800	110	000		
ŀ	HYDRAULIC CONNECTION mm			50						
ELECTRIC POWER SUPPLY V/Ph/			230/	1/50		400/	3/50			
REFRIG	ERANT FLUID QUANTITY	Kg	2	4.3	4.8	5.5	6.3 6.6			
	NUMBER OF FANS			:	1		2	2		
ALASKA	COOLING CAPACITY	KW	4.4	5.7	8.9	10.7	16.6	22.7		
AIR 27°C/	POWER CONSUMPTION	KW	1.3	2.0	2.8	3.6	5.0	6.6		
WATER 12°C	EER		3.3	2.9	3.1	3.0	3.4	3.5		
SIBERIA	COOLING CAPACITY	KW	4.4	5.7	8.9	10.7	16.6	22.7		
AIR 27°C /	POWER CONSUMPTION	KW	1.8	2.3	3.2	4.5	7.7	9.3		
WATER 12°C	EER		2.4	2.5	2.8	2.4	2.2	2.5		
ALASKA DIMENSIONS	DIMENSIONS	mm	1311 (+80) x 512 x 746	1311 (+80) x 540 x 746	1411 (+80) x 556 x 846	1372 (+80) x 650 x 890	1728 (+80)	x 708 x 866		
DIMENSIONS	WEIGHT	Kg	80	92	102	133	167	197		
SIBERIA DIMENSIONS	DIMENSIONS	mm	1311 (+80) x (550+50) x 746	1311 (+80) x (700+50) x 746	1311 (+80) x (700+50) x 846	1372 (+80) x (655+50) x 890	1728 (+80) x (555+50) x 866		
	WEIGHT	Kg	97	112	120	188	219	224		

Maximum air temperature 40°C, minimum water temperature 10°C. Maximum water pressure 3.5 bar.

WATER-AIR CHILLERS FOR INDOOR OR OUTDOOR INSTALLATION



WARNING

 Protect the line with a circuit breaker and a differential of

Avoid walls and trees etc. neato the machine.

Bering Chiller







The ASTRALPOOL models BERING CHILLER are used for cooling the pool, cold water sinks, etc.

The WATER-WATER chiller is equipped with the following elements:

- Robust and lightweight design in lacquered aluminium or magnesium sheet that to be placed outdoor areas.
- Scroll compressor with carter resistor.
- Water evaporator and condenser made in PVC and Titanium.
- High Pressure and Low Pressure (HP / LP) switches with manual reset.
- Expansion by thermostatic valve with external equalizer.
- Drying filter.
- Hydraulic circuit with flow switch on the water inlet made of high molecular weight PVC pipe, good elasticity
 and remarkable resistance to stress cracking, an essential feature for the transport of fluids under pressure.
- Refrigerant gas R407C.
- A copper nitrogen cooling circuit, dehydrated and deoxidized.

ELECTRICAL PANEL

Electrical panel with full control to guarantee optimal performance with minimum energy consumption. Composed of the following elements:

- On / Off switch.
- · Electronic compressor timer.
- · Contactors and thermal relay.
- Interconnection terminals and earth.
- Controller.

The chiller should be placed in a bypass prepared for the purpose at the purification outlet of the system and prior to any system dosing with chemical products. Whenever it is not possible to have the dosing system inlet 25 cm below the water outlet of the heat pump, you must install a siphon to prevent back flow of the chemical to the pump when water flow is interrupted.

The device should never be working with no water circulation in the hydraulic system.

	Discount group	Code	Unit £
BERING-4	Р	66306	9,327.00
BERING-6	Р	66307	10,879.00
BERING-8	P	66308	11,464.00
BERING-10	P	66309	13,881.00
BERING-15	P	66311	19,034.00
BERING-17	Р	66312	22,137.00

TECHNICAL SPECIFI	CATIONS								
	1	MODELS	BERING-4	BERING-6	BERING-8	BERING-10	BERING-15	BERING-17	
		CODE	66306	66307	66308	66309	66311	66312	
	FREQUENCY	V/Ph/Hz	230/	2/50		400/	3/50		
	EVAPORATOR				TITA	NIUM			
	CONDENSER				1ATIT	MUIM			
	COMPRESSOR		ROTATIVE						
	REFRIGERANT -R407C Kg			4.3	4.8	5.5	6.3	6.6	
	WATER FLOW	m³/h	6 - 10	6 - 10	7 - 12	7 - 12	10 - 15	10 - 15	
	HEAD LOSS	bar	0.1	0.1	0.1	0.3	0.3	0.3	
	Ø CONNECTION	mm	50						
	P. INPUT	kW	1.34	2.01	2.84	3.55	4.95	6.57	
27°C AIR TEMP. 12°C WATER TEMP.	P. OUTPUT	kW	4.43	5.72	8.88	10.73	16.60	22.71	
The state of the s	EER		3.32	2.85	3.13	3.02	3.35	3.46	
	А	mm	1311 (+80)	1311 (+80)	1311 (+80)	1411 (+80)	1750 (+80)	1750 (+80)	
DIMENSIONS	В		550	700	700	700	800	800	
DIMENSIONS	С	mm	750	750	850	900	900	900	
	WEIGHT	Kg	100	110	120	190	220	225	

Min. water inlet temp. evaporator: 8 °C. Max. water inlet temp. condenser: 40 °C.



Heatstar is a specialist British manufacturer of heat recovery and humidity control systems, including heat pumps, designed exclusively for swimming pool applications.

Key features of a Heatstar:

- Manufactured only in the UK
- Genuine nationwide 'on-site' service support by Heatstar's own expert technicians
- Each unit is totally bespoke and built to the precise requirements of the application
- All components specially selected for use within swimming pool environments
- UK building regulations compliant
- Ecodesign directive compliant



ADVANCED SWIMMING POOL CLIMATE CONTROL SYSTEMS





Central Ventilation Total Environmental Control Systems









Andromeda EC

1000-12000

Complete Environmental Control System

Centred upon a dehumidifying heat pump and utilising the latest 'Blue-EC' ultra efficient intelligent digital inverter fan technology, the Andromeda EC offers an assured solution for both effective and efficient environmental control for residential indoor swimming pools.

	Туре	10	00	20	00	30	000	40	00	60	000	80	00	120	000
		Min	Max	Min	Max										
Air recirculation fan duty	M³/Hr.	1500	3500	1800	3500	2000	3500	2500	7000	3500	7000	5000	14000	7000	14000
Expelled / fresh air fan duty	M³/Hr.	150	350	180	350	200	350	250	700	350	700	500	1400	700	1400
Dehumidifying heat pump	L/Hr.	4	4.5		.3	7	.6	9	.3	15	5.3	18	3.6	30	0.6
Room air heating potential															
Dehum heat pump recycled heat	kW	6	.6	9	.2	11	1.1	13	3.6	22	2.4	27	7.2	44	4.8
LTHW coil	kW	9.8	22.9	11.8	22.9	13.1	22.9	16.3	45.7	22.9	45.7	32.7	91.4	45.7	91.4
Pool water heating potential															
Dehum heat pump recycled heat	kW	6	.6	9	.2	11	1.1	13	3.6	22	2.4	27	7.2	44	4.8
LTHW coil	kW	13.2	46.2	13.2	46.2	13.2	46.2	26.4	68.6	26.4	68.6	68.6	137.9	68.6	137.9











1000-12000

High Efficiency Heat Recovery Ventilation System

Centred upon a high efficiency 'Cross Flow' plate air-to-air heat recuperator, the XF utilises fresh air introduction to provide natural dehumidification and utilises the recuperator to maximise heat extraction from the expelled room air. The XF utilises the latest 'Blue-EC' ultra efficient intelligent digital inverter fan technology and is fully compliant with the latest building control regulations for both residential and non-residential applications.

	Туре	10	00	20	00	30	00	40	00	60	00	80	000	120	000
		Min	Max	Min	Max										
Air recirculation fan duty	M³/Hr.	1500	3500	1800	3500	2000	3500	2500	7000	3500	7000	5000	14000	7000	14000
Expelled / fresh air fan duty	M³/Hr.	900	3000	900	3000	900	3000	1400	5000	1400	5000	2800	10000	2800	10000
Dehumidification															
Fresh air induction: Summer	L/Hr.	5.6	18.6	5.6	18.6	5.6	18.6	8.7	30.9	8.7	30.9	17.3	61.9	17.3	61.9
Fresh air induction: Winter	L/Hr.	9.2	30.7	9.2	30.7	9.2	30.7	14.3	51.2	14.3	51.2	28.7	102.5	28.7	102.5
Room air heating potential															
LTHW coil	kW	9.8	22.9	11.8	22.9	13.1	22.9	16.3	45.7	22.9	45.7	32.7	91.4	45.7	91.4
Pool water heating potential															
LTHW coil	kW	13.2	46.2	13.2	46.2	13.2	46.2	26.4	68.6	26.4	68.6	68.6	137.9	68.6	137.9













Phoenix EC

1000-12000

Hybrid Heat Recovery Ventilation System

Encompassing all the available energy saving technologies and fully compliant with the latest building control regulations for both residential and non-residential applications, the Phoenix EC represents the optimum and uncompromised environmental control solution for the highest specification indoor swimming pools.

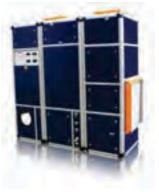
	Туре	10	00	20	000	30	000	40	00	60	000	80	000	120	000
		Min	Max	Min	Max										
Air recirculation fan duty	M³/Hr.	1500	3500	1800	3500	2000	3500	2500	7000	3500	7000	5000	14000	7000	14000
Expelled / fresh air fan duty	M³/Hr.	900	3000	900	3000	900	3000	1400	5000	1400	5000	2800	10000	2800	10000
Dehumidifying heat pump	L/Hr.	4	4.5		5.3	7	.6	9	.3	15	5.3	18	3.6	30	0.6
Room air heating potential															
Dehum heat pump recycled heat	kW	6	i.6	9).2	11	1.1	13	3.6	22	2.4	27	7.2	4	4.8
LTHW coil	kW	9.8	22.9	11.8	22.9	13.1	22.9	16.3	45.7	22.9	45.7	32.7	91.4	45.7	91.4
Pool water heating potential															
Dehum heat pump recycled heat	kW	6	5.6	9	9.2	11	1.1	13	3.6	22	2.4	27	7.2	4	4.8
LTHW coil	kW	13.2	46.2	13.2	46.2	13.2	46.2	26.4	68.6	26.4	68.6	68.6	137.9	68.6	137.9











Phoenix MP

1000-12000

'Multi-Pass' Hybrid Heat Recovery Ventilation System

Encompassing all the energy saving technologies of the Phoenix EC, the Phoenix MP has increased potential for heat recovery from any room air exhausted to outside by utilising a twin recuperator arrangement. The Phoenix MP is ideal for all newly designed indoor swimming pools where a higher level of demand is anticipated.

	Туре	10	00	20	000	30	00	40	00	60	00	80	000	120	000
		Min	Max	Min	Max										
Air recirculation fan duty	M³/Hr.	1500	3500	1800	3500	2000	3500	2500	7000	3500	7000	5000	14000	7000	14000
Expelled / fresh air fan duty	M³/Hr.	900	3000	900	3000	900	3000	1400	5000	1400	5000	2800	10000	2800	10000
Dehumidifying heat pump	L/Hr.	4	4.5		.3	7	.6	9	.3	15	5.3	18	8.6	30	0.6
Room air heating potential															
Dehum heat pump recycled heat	kW	6	.6	9	.2	11	1.1	13	3.6	22	2.4	27	7.2	44	4.8
LTHW coil	kW	9.8	22.9	11.8	22.9	13.1	22.9	16.3	45.7	22.9	45.7	32.7	91.4	45.7	91.4
Pool water heating potential															
Dehum heat pump recycled heat	kW	6	.6	9	.2	11	1.1	13	3.6	2	2.4	27	7.2	44	4.8
LTHW coil	kW	13.2	46.2	13.2	46.2	13.2	46.2	26.4	68.6	26.4	68.6	68.6	137.9	68.6	137.9













Hydrus AC

1000-12000

Specialist Environmental Control System For Moving Floor Pools

The Hydrus is especially conceived to meet the markedly opposing environmental control demands of a multi-use pool room when in different modes of use.

The Hydrus has the capability to tackle the strenuous demands of a high temperature and moisture laden swimming pool room environment, whilst maintaining excellent energy efficiency, and also features in-built facilities necessary to accommodate an entirely different environment requirement for the room, suitable for functions, parties and many other uses.

	Туре	10	00	20	00	30	00	40	000	60	00	80	000	120	000
		Min	Max	Min	Max										
Air recirculation fan duty	M³/Hr.	1500	3500	1800	3500	2000	3500	2500	7000	3500	7000	5000	14000	7000	14000
Expelled / fresh air fan duty	M³/Hr.	900	3000	900	3000	900	3000	1400	5000	1400	5000	2800	10000	2800	10000
Dehumidifying heat pump	L/Hr.	4	4.5		.3	7	.6	9	.3	15	5.3	18	3.6	30	0.6
Room air heating potential															
Dehum heat pump recycled heat	kW	6	.6	9	.2	11	.1	13	3.6	22	2.4	2	7.2	4	4.8
LTHW coil	kW	9.8	22.9	11.8	22.9	13.1	22.9	16.3	45.7	22.9	45.7	32.7	91.4	45.7	91.4
Pool water heating potential															
Dehum heat pump recycled heat	kW	6	6.6		.2	11	.1	13	3.6	22	2.4	2	7.2	4	4.8
LTHW coil	kW	13.2	46.2	13.2	46.2	13.2	46.2	26.4	68.6	26.4	68.6	68.6	137.9	68.6	137.9
Sensible room air cooling potential	kW	3	.8	5	.4	6	.6	8	1.3	13	3.2	16	5.6	26	5.4









Taurus EC

1000-12000

Optimum Efficiency Environmental Control System For Water Leisure Centres and Municipal Swimming Pools

A dedicated range of very high capacity systems to provide efficient and effective environmental control for large water leisure centres or municipal swimming pools. Offering all the available energy saving technologies and fully compliant with the latest building control regulations for non-residential applications, the Taurus systems can be tailored by the specifier to incorporate preferred technologies and features.

	Туре	(50	12	20	18	30	2-	40	30	60	4	80
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Air recirculation fan duty	M³/Sec.	0.97	2.50	1.94	6.11	3.19	9.17	3.89	12.22	3.89	12.22	5.56	12.22
Expelled / fresh air fan duty	M³/Sec.	0.39	1.39	0.78	3.89	1.17	5.00	1.56	5.83	2.33	7.50	3.11	10.00
Dehumidifying heat pump	Kg/Hr.	1	15.3		0.6	4!	5.9	6:	1.2	91	1.8	12	2.4
Room air heating potential													
Dehum heat pump recycled heat	kW	2	2.4	4	4.8	67	7.2	89	9.6	13	4.4	17	9.2
LTHW coil	kW	22.8	58.8	45.6	143.6	75.0	215.6	91.4	287.3	91.4	287.3	130.7	287.3
Pool water heating potential													
Dehum heat pump recycled heat	kW	22.4		4	4.8	67	7.2	89	9.6	13	4.4	17	9.2
LTHW coil	kW	26.4	68.6	68.6	92.4	68.6	92.4	92.4	137.9	92.4	184.7	92.4	275.8



Pool room / 'through wall' Dehumidifiers











100-200

Ducted Dehumidifier with Air and Pool Heating

Centred upon a dehumidifying heat pump, the Orion is designed to be located in an area adjoining the pool room and is supplied with a special 'flexi-duct' kit with grilles to enable the room air to be drawn into the unit and for the dry / heated conditioned air to be returned. The Orion is a convenient and effective dehumidification and heating solution for smaller residential indoor swimming pools or swim spas.

	Туре	100	200
Air recirculation fan duty	M³/Hr.	1500	1800
Expelled / fresh air duty *	M³/Hr.	150	180
Dehumidification			
Dehumidifying heat pump	L/Day	81.6	108.0
Fresh air induction: Summer	L/Day	22.3	26.7
Fresh air induction: Winter	L/Day	36.9	44.3
Room air heating potential			
Dehum heat pump recycled heat	kW	5.0	6.6
LTHW coil	kW	9.8	11.8
Pool water heating potential			
LTHW coil	kW	13.2	13.2









50-200

Premium Quality 'Designer' Dehumidifier

Purpose-made premium quality dehumidifier, featuring stunning 'Art Deco' designer styling. Can be located within the pool or spa room itself, or in an adjoining room if the 'through wall' format is selected. Air heating and integral digital control panel options available. A cost effective dehumidification solution for smaller residential indoor swimming pools, swim spas or spas.

	Туре	50	100	200
Air recirculation fan duty	M³/Hr.	690	1180	1300
Dehumidification				
Dehumidifying heat pump	L/Day	40.8	81.6	108.0
Room air heating potential				
Dehum heat pump recycled heat	kW	2.5	5.0	6.6
LTHW coil option	kW	2.7	4.0	6.7
Electric coil option	kW	2.0	4.0	6.0

Pool Water Heating Solution



Aquarius

1-16

Direct-Contact Aerothermal Swimming Pool Heat Pump

A self contained dependable renewable energy pool water heating system. The Aquarius is an aerothermal heat pump of exceptional quality and specification and utilises 'direct contact' technology to transfer heat from the refrigerant directly into the pool water. The Aquarius is clean, easy to install and simple to operate and maintain. The Aquarius units are available for either summer or all year use and in both single or three phase electricity. The range also extends to encompass large capacity models for non-residential pool applications.

- Genuine UK manufacture
- 'Direct Contact' pool water heating technology
- 20 Year Pool Water Heat Exchanger anti-corrosion guarantee
- 20 Year anodised Aluminium chassis Guarantee
- Robust hot-dipped galvanised steel casing with tough plastic-coating
- Ultra quiet 'low energy' digital air fan can be 'ducted' if unit is inside
- 'Gold' Epoxy coated air coil matrix to protect against air corrosion
- Highest Possible Performance Efficiency
- Large commercial capacities and 3 phase electricity versions also available
- Fully compliant Energy Related Product 'Eco-Design' Directive (ERP)
- Genuine nationwide 'on-site' service support by Heatstar's own expert technicians



Also available in COMPACT model

	Туре	1	2	3	4	6	8	16
Air fan duty	M³/Hr.	2875	2875	3250	3250	6500	6500	13000
Max. external resistance	Pa	6	6	8	8	8	8	8
Fan type			Electronically co	ommutated, brushle	ss DC motor, sickle	blades with owl wi	ng edge profiling	
Unit power capacity								
Heat pump input	kW	1.9	2.4	3.2	4.0	6.5	8.1	16.1
'Super boost' option input	kW	6.0	6.0	9.0	9.0	-	-	-
Electrical requirements								
Single phase 230v / 50 Hz versions								
Compressor nominal running	Amps	7.8	10.0	13.5	17.0	27.0	33.9	67.8
Compressor RLA	Amps	11.4	14.5	17.3	23.1	34.6	46.2	92.4
Compressor LRA	Amps	47.0	61.0	76.0	100.0	89.5	117.0	151.0
Max. supply fusing (type C)	Amps	16	16	20	25	40	50	-
Min. supply capacity	Amps	20	25	30	40	45	63	-
With 'Super boost' option								
Max. supply fusing (type C)	Amps	40	40	63	63	-	-	-
Min. supply capacity	Amps	40	40	63	63	-	-	-
Three phase 400v / 50 Hz versions								
Compressor nominal running	Amps	2.6	3.3	4.5	5.7	9.0	11.3	22.6
Compressor RLA	Amps	4.2	5.1	6.3	7.0	12.6	14.0	28.0
Compressor LRA	Amps	24.0	32.0	40.0	46.0	45.0	52.0	64.0
Max. supply fusing (type C)	Amps	6	6	10	10	16	16	32
Min. supply capacity	Amps	8	9	11	13	16	20	30
With 'Super boost' option								
Max. supply fusing (type C)	Amps	16	16	20	25	-	-	-
Min. supply capacity	Amps	13	14	20	20	-	-	-

Rated conditions

Pool water: 26°C Ambient: 20°C/70% R.H.

Due to continuous development the right to alter specifications without notice is reserved. E&OE.





Heatstar product comparison

	ANDROMEDA EC	PHOENIX EC	XF EC	GEMINI EC	HYDRUS EC	TAURUS EC	ORION	PEGASUS
Format								
Central-ventilation with room air recirculation	✓	√	✓	✓	√	✓	✓	✓
UK Building regulations								
Building regulations compliant : residential pools	✓	✓	✓	✓	✓	✓	✓	✓
Building regulations compliant : non-residential pools	_	✓	✓	✓	_	✓	_	_
Primary systems								
Integral aerothermal fresh air source heat pump	_	_	_	✓	_	√	_	_
Dual function dehumidifying & expelled room air heat pump	_	√	_	_	_	√	_	_
Dehumidifying heat pump	✓	_	_	_	_	✓	✓	√
High efficiency plate 'Cross Flow' air-to-air heat recuperator	_	√	✓	_	_	✓	_	_
'Close-control' precision fresh air ventilation management	_	✓	√	_	√	√	_	_
Room air dehumidification method								
Dehumidification via full rate fresh air induction	_	√	√	_	✓	✓	_	_
Dehumidification via heat pump	✓	√	_	√	_	✓	✓	✓
Active heat recycling back to room air via dehumidifier	/	√	_	√	_	√	√	√
Active heat recycling to pool water via dehumidifier		<i>✓</i>	_	√	_	✓ ·	_	_
Fan technology				•				
'Blue EC' ultra efficient digital inverter fan system	✓	√	_	√	√	✓	_	_
'Auto-fan' intelligent air recirculation fan management		· /	· /	· /	· /	· /	_	_
Illuminated blue LED fan viewing window		· /	· ·	· /	· ·	· /	_	_
Adjustable air recirculation air flow	· /	→	· /	· /	· /	· /		
Expelled room air heat extraction method	,	•	•	•	•	•		
Heat extraction via aerothermal heat pump		_	_	1	_	✓	_	_
Heat extraction via dehumidifying heat pump		_		· /		· /		
Heat extraction via 'Cross Flow' exchanger		↓	_	•	_	· /	_	_
Fresh air capability		•	•			•		
Fresh air dilution provision	✓	√	_	✓	✓	✓	1	1
Fresh air 'full rate' ventilation capability	,	→	· /	Ť	· /	· /	Ť	, ,
Air and pool water heating	_	•	•	_	•	•	_	_
Integral room air heating coil		./		_		./	./	./
Integral pool water heating coil		./						ľ
Suitable for low temperature primary heat from renewables	\ \ \ \	↓	· /	· /	√	√	· ·	_
Suitable for salt water pool applications (titanium coils)	\ \ \ \	↓	· /	· /	√	√	_	_
Room air cooling capability	•	•	•	•	•	•	•	_
'Free' cooling via fresh air induction		√	_		✓	✓		
Full mechanical cooling via integral fresh air condenser	_	•	•	_	•	V	_	_
Part mechanical cooling via integral expelled air condenser	_	_ ✓*	_	_	_	•	_	_
Controls	_	•	_	_	_	_	_	_
Full 'pre-packaged' system with integrated controls Configurations available	_	√	✓	✓	√	✓	√	_
Vertical or Horizontal	√	√	√	_	_	_	V	_
Variable positioning for controls, pipe & air duct connections	√	√	√	√	√	√	√	_
Sectional 'split' units for where installation access is restricted	*	√ *	√ *	√ *	√ *	√ *	√ *	
Weatherproofed for external installation	*	√ *	√ *	√ *	√ *	√ *	√ *	√ *
Remote control panel	√ *	√ *	√ *	√ *	√ *	√ *	√ *	√ *

TUBULAR HEAT EXCHANGERS



Swimming Pool Heat Exchangers for use with boilers

Bowman heat exchangers are extremely efficient, heating pools significantly faster, reducing energy costs and saving money. Easy to install, simple to maintain, they offer outstanding performance and reliability for any pool, from spas and hot tubs to Olympic sized swimming pools.





Code	Pool (Capacity		Transfer Boiler Water		nt Transfer Boiler Water	Boiler Flo		Maximu Water		Weight	Discount group	£ Cupronickel	£ Stainless Steel	£ Titanium
	m³	gal	kW	Btu/h	kW	Btu/h	m³/h	I/m	m³/h	I/m	kg				
EC80-5113-1C	40	8,800	20	68,000	12	41,000	2.1	35	9.0	150	3.0	Р	323.00	-	-
EC80-5113-1S/T*	50	11,000	25	85,000	16	55,000	3.0	50	12.0	200	3.0/2.7	Р	-	346.00	463.00
EC100-5113-2C	80	18,000	40	135,000	22	75,000	2.4	40	10.2	170	4.5	Р	390.00	-	-
EC100-5113-2S/T*	90	20,000	50	170,000	30	102,000	3.0	50	12.0	200	4.5/4.0	Р	-	427.00	591.00
EC120-5113-3C	120	26,000	70	240,000	40	135,000	3.6	60	13.5	225	5.5	Р	494.00	-	-
EC120-5113-3S/T*	130	28,500	80	270,000	46	157,000	4.0	67	15.0	250	5.5/4.9	Р	-	531.00	759.00
FC100-5114-2C	170	37,000	100	340,000	55	190,000	5.4	90	21.0	350	8.8	Р	742.00	-	-
FC100-5114-2S/T*	180	39,500	110	375,000	60	205,000	6.0	100	22.8	380	8.8/7.8	Р	-	819.00	1,104.00
FG100-5115-2C	230	50,000	170	580,000	100	340,000	7.2	120	28.8	480	16	Р	1,282.00	-	-
FG100-5115-2S/T*	250	55,000	190	650,000	110	376,000	8.4	140	33.0	550	16/14	Р	-	1,695.00	2,466.00
FG160-5115-5S/T*	320	70,000	300	1,000,000	170	580,000	9.6	160	39.0	650	29/25	Р	-	2,399.00	3,973.00
GL140-3708-2C	455	100,000	300	1,000,000	170	580,000	12.6	210	50.4	840	30	Р	2,107.00	-	-
GL140-3708-2T	478	105,000	320	1,100,000	180	615,000	13.5	225	54.0	900	30/27	Р	-	-	6,388.00
GK190-5117-3C	660	145,000	556	1,900,000	310	1,060,000	19.2	320	75.0	1,250	57	Р	3,453.00	-	-
GK190-5117-3T	750	165,000	630	2,150,000	360	1,230,000	21.6	360	96.0	1,600	51	Р	-	-	11,034.00
JK190-5118-3C	1,000	220,000	780	2,660,000	440	1,500,000	28.6	475	114.0	1,900	85	Р	5,633.00	-	-
JK190-5118-3T	1,230	270,000	960	3,280,000	540	1,840,000	37.5	625	150.0	2,500	76	Р	-	-	16,818.00
PK190-5119-3C	1,500	330,000	1,055	3,600,000	585	2,000,000	44.0	730	175.0	2,900	120	Р	9,894.00	-	-
PK190-5119-3T	1,680	370,000	1,680	4,000,000	650	2,200,000	49.2	820	216.0	3,600	106	Р	-	-	27,036.00

^{*}Add the appropriate suffix indicating tube material when ordering these part numbers (C, S or T). $C = Cupronickel \ S = Stainless steel \ T = Titanium$

N.B. Stainless steel heat exchangers should not be used on pools fitted with salt water chlorinators or salt water pools.

The performance capabilities of the heat exchangers are based on achieving a pool water temperature of 30°C.



TUBULAR HEAT EXCHANGERS



Swimming Pool Heat Exchangers for use with renewable energy

For pools heated by renewable energy, Bowman offer a range of heat exchangers that have been specially designed to operate with the lower temperature water provided by heat sources such as solar panels or ground source heat pumps.



Code	Pool C	apacity	Heat T	ransfer		ar or Pump r Flow	Maximu Water	m Pool Flow	Weight	Discount group	£ Cupronickel	£ Stainless Steel	£ Titanium
	m³	gal	kW	Btu/h	m³/h	I/m	m³/h	I/m	kg				
				Н	ot Water at	70°C							
EC120-5113-3C/S/T*	50	11	30	102	1.5	25	6.2	104	5.5 / 5/5 / 4.9	Р	494.00	531.00	759.00
EC160-5113-5C/S/T*	120	26	75	256	3.0	50	15.0	250	8.5 / 8.5 / 7.3	Р	762.00	819.00	1,101.00
FC160-5114-5C/S/T*	200	44	130	444	4.5	76	23.0	380	17 / 17 / 15	Р	1,329.00	1,430.00	2,030.00
FG160-5115-5C/S/T*	300	66	200	680	6.6	110	29.0	480	29 / 29 /25	Р	2,399.00	2,621.00	3,973.00
				Н	ot Water at	60°C							
EC120-5113-3C/S/T*	40	8,8	20	68	1.5	25	6.2	104	5.5 / 5.5 / 4.9	Р	494.00	531.00	759.00
EC160-5113-5C/S/T*	110	24	55	190	3.0	50	15.0	250	8.5 / 8.5 / 7.3	Р	762.00	819.00	1,101.00
FC160-5114-5C/S/T*	180	40	96	325	4.5	76	23.0	380	17 / 17 / 15	Р	1,329.00	1,430.00	2,030.00
FG160-5115-5C/S/T*	230	50	150	512	6.6	110	29.0	480	29 / 29 /25	Р	2,399.00	2,621.00	3,973.00
				Н	ot Water at	45°C							
EC120-5113-3C/S/T*	20	4,4	10	34	1.5	25	6.2	104	5.5 / 5.5 / 4.9	Р	494.00	531.00	759.00
EC160-5113-5C/S/T*	52	11,4	27	92	3.0	50	15.0	250	8.5 / 8.5 / 7.3	Р	762.00	819.00	1,101.00
FC160-5114-5C/S/T*	94	20,6	47	160	4.5	76	23.0	380	17 / 17 /15	Р	1,329.00	1,430.00	2,030.00
FG160-5115-5C/S/T*	140	30,8	70	240	6.6	110	29.0	480	29 / 29 / 25	Р	2,399.00	2,621.00	3,973.00

^{*}Add the appropriate suffix indicating tube material when ordering these part numbers (C, S or T).

 $C = Cupronickel \ \ S = Stainless \ steel \ \ T = Titanium$

 $N.B. \ Stainless \ steel \ heat \ exchangers \ should \ not \ be \ used \ on \ pools \ fitted \ with \ salt \ water \ chlorinators \ or \ salt \ water \ pools.$



WATER-WATER EXCHANGER



Waterheat EVO

Heat exchanger suitable for warming the water temperature of pools and SPAS, thanks to the heat exchange between the primary circuit (warm area) and a secondary one (cold area that we want to warm).

- Titanium housing (secondary, pool water).
- Titanium coil (primary, water for boiler).
- Primary working pressure of 10 bar.
- Secondary working pressure of 3 bar.



TIT-20 kW TIT-40 kW TIT-60 kW TIT-105 kW TIT-140 kW TIT-210 kW TIT-300 kW TIT-450 kW

Discount group	Code	Unit £
Р	71607	680.00
Р	71608	820.00
P	71609	997.00
P	71610	1,626.00
Р	71611	2,291.00
P	71612	2,689.00
P	71613	3,813.00
Р	71614	5,207.00

Diagram of assembly below the water level:

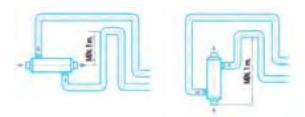
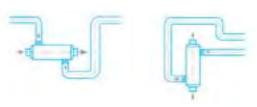
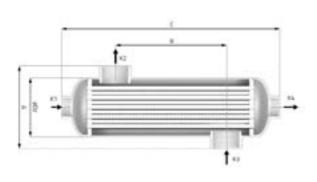


Diagram of assembly below the water level:





TECHNICAL FEATURES											
MODELS		TIT-20 KW	TIT-40 KW	TIT-60 KW	TIT-105 KW	TIT-140 KW	TIT-210 KW	TIT-300 KW	TIT-450 KW		
	CODES	71607	71608	71609	71610	71611	71612	71613	71614		
POWER (kW)	90°C	20	40	60	105	140	210	300	450		
	60°C	10	20	30	40	60	80	120	210		
	45°C	5	10	15	20	3	40	60	100		
HEATER	m³/h	1.6	2.7	3.1	6.6	7.0	10.0	11.0	16.0		
HEATER LOAD LOSS	bar	0.006	0.024	0.040	0.030	0.040	0.122	0.214	0.470		
HEATER CONNECTION	Inch	G 3/4"			G 1 ½"						
POOL VOLUME	m³/h	11	15	20	23	20	25	20	21		
POOL HEAD LOSS	bar	0.119	0.192	0.418	0.293	0.316	0.633	0.596	0.860		
POOL CONNECTION	Inch	G 1" G 1 ½"									
C DIMENSIONS	A (mm)	122			140						
	B (mm)	75	175	225	170	270	420	670	920		
	C (mm)	290	390	440	357	457	607	857	1107		
	Ø Dz	80			102						
WEIGHT	kg	1.2	1.7	1.9	2.2	2.7	3.8	5.3	6.8		

 $Consult your service \ engineer \ about \ the \ right \ selection \ of \ unit \ depending \ on \ your \ installation.$

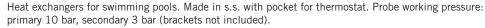
Figures for power settings calculated for pool water at 20° C.



TUBULAR HEAT EXCHANGERS

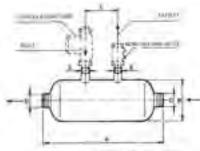


Behncke series QWT 100

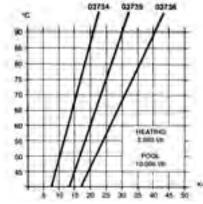


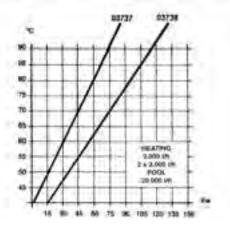


		Discount group	Code	Unit £
Power 20 kW	68,000 btu	Р	03734	645.00
30 kW	102,300 btu	P	03735	657.00
40 kW	136,000 btu	P	03736	631.00
70 kW	238,000 btu	P	03737	1,116.00
104 kW	359,000 btu	P	03738	1,431.00
140 kW	477,700 btu	P	03739	2,207.00
209 kW	713,108 btu	P	03740	2,708.00



Code	Dimensions								
Code	Α	В	С	D	E				
03734	270	125	90	11/2"	3/4"				
03735	315	125	135	11/2"	3/4"				
03736	385	125	205	11/2"	3/4"				
03737	520	190	290	11/2"	1"				
03738	660	190	430	2"	1"				
03739	920	19	295	2"	1"				
03740	1190	190	430	2"	1"				





POOL HEATING & DEHUMIDIFICATION

PLATE HEAT EXCHANGERS

Etna series

For the codes of titanium products, please contact your dealer.

- Corrugated plates in AISI-316 or Titanium.
- EPDM gaskets.
- Frame in carbonised steel with epoxy paint.
- In unequipped heat exchangers, stainless steel connections AISI-316 or polypropylene in ISO G2 direct thread.
- In equipped heat exchangers, primary connections in cast iron, and secondary in PVC.
- In equipped heat exchangers, full regulation, with control of the filtering pump. Double display (setpoint and current reading).
- Simple circulating pump in the primary circuit is optional.







c model Equipped model

Equipped model + recirculating pump

	AISI-316 codes		Ti	tanium cod	anium codes			P	rimary cir	cuit	Sec	condary c	ircuit	
Model	Basic model	Equipped model	Model Eq+B ⁽¹⁾	Basic model	Equipped model	Model Eq+B ⁽¹⁾	Power (kcal/h)	N° Plates	Flow rate m ³ /h)	Head loss (m.w.h.)	Connections	Flow rate m ³ /h)	Head loss (m.w.h.)	Connections
ETNA-15	67985	68230	68021	67994	68012	68030	15.000	5	0.75	1.59	1 1/4"	0.74	1.93	1 1/4"
ETNA-35	68223	67986	68022	67995	68013	68031	35.000	7	1.77	2.15	1 1/4"	1.73	2.57	1 1/4"
ETNA-50	68224	68005	68023	67996	68014	68032	50.000	9	2.56	2.01	1 1/4"	2.51	2.41	1 1/4"
ETNA-60	68225	68006	68024	67997	68015	68033	60.000	11	3.09	2.14	1 1/4"	3.03	2.57	1 1/4"
ETNA-90	67989	68007	68025	67998	68016	68034	90.000	15	4.64	2.34	1 1/4"	4.55	2.81	1 1/4"
ETNA-120	67990	68008	68026	68226	68017	68035	120.000	19	6.19	2.45	1 1/4"	6.07	2.95	1 1/4"
ETNA-150	67991	68009	68027	68227	68018	68036	150.000	23	7.71	2.24	1 1/4"	7.56	2.7	1 1/4"
ETNA-180	67992	68010	68028	68228	68019	68037	180.000	29	9.23	2.32	1 1/4"	9.06	2.79	1 1/4"
ETNA-200	67993	68011	68029	68229	68020	68038	200.000	31	10.3	2.38	1 1/4"	10.1	2.86	1 1/4"
ETNA-250	32550	32563	32576	33137	33155	33173	250.000	15	12.86	2.2	2 1/2"	12.61	2.74	2 1/2"
ETNA-300	32552	32565	32578	33139	33157	33175	300.000	17	15.42	2.4	2 1/2"	15.13	2.99	2 1/2"
ETNA-350	32553	32566	32579	33140	33158	33176	350.000	21	17.98	2.12	2 1/2"	17.64	2.64	2 ½"
ETNA-400	33114	33119	33124	33141	33159	33177	400.000	23	20.55	2.27	2 1/2"	20.16	2.82	2 1/2"
ETNA-460	33115	33120	33125	69796	33160	33178	460.000	25	23.18	2.41	2 1/2"	22.73	2.99	2 ½"
ETNA-500	32554	32567	32580	69797	33161	33179	500.000	27	25.1	2.41	2 1/2"	24.62	2.99	2 ½"
ETNA-580	33116	33121	33126	69798	33162	33180	580.000	33	29.83	2.26	2 ½"	29.26	2.81	2 1/2"

⁽¹⁾ Eq + B: Equipped model + recirculating pump.



PLATE HEAT EXCHANGERS

Etna series

Description Plate exchanger	Code AISI-316	Unit £	Code Titanium	Unit £
Basic model	A131-310		Haillalli	
INT-15 WATER/WATER PLATE EXCHANGER	67985	1,097.00	67994	1,620.00
INT-35 WATER/WATER PLATE EXCHANGER	68223	1,165.00	67995	1,819.00
INT-50 WATER/WATER PLATE EXCHANGER	68224	1,341.00	67996	2,978.00
INT-60 WATER/WATER PLATE EXCHANGER	68225	1,428.00	67997	2,979.00
INT-90 WATER/WATER PLATE EXCHANGER	67989	1,692.00	67998	3,944.00
INT-120 WATER/WATER PLATE EXCHANGER	67990	1,870.00	68226	4,712.00
INT-150 WATER/WATER PLATE EXCHANGER	67991	1,957.00	68227	5,938.00
INT-180 WATER/WATER PLATE EXCHANGER	67992	2,134.00	68228	7,256.00
INT-200 WATER/WATER PLATE EXCHANGER	67993	2,257.00	68229	7,426.00
INT-250 WATER/WATER PLATE EXCHANGER	32550	3,285.00	33137	7,420.00
INT-300 WATER/WATER PLATE EXCHANGER	32552	3,438.00	33139	8,384.00
INT-350 WATER/WATER PLATE EXCHANGER	32553	3,784.00	33140	9,512.00
INT-400 WATER/WATER PLATE EXCHANGER	33114	3,994.00	33141	10,227.00
INT-460 WATER/WATER PLATE EXCHANGER	33115	4,109.00	69796	10,227.00
INT-500 WATER/WATER PLATE EXCHANGER	32554	4,342.00	69797	11,656.00
INT-580 WATER/WATER PLATE EXCHANGER	33116	4,662.00	69798	14,351.00
Equipped model	60000	2.860.00	60010	2 120 00
INT EQUIPPED-15 EQUIPPED WATER/WATER PLATE EXCHANGER	68230	2,869.00	68012	3,139.00
INT EQUIPPED-35 EQUIPPED WATER/WATER PLATE EXCHANGER	68004	3,200.00	68013	3,406.00
INT EQUIPPED-50 EQUIPPED WATER/WATER PLATE EXCHANGER	68005	3,447.00	68014	4,211.00
INT EQUIPPED-60 EQUIPPED WATER/WATER PLATE EXCHANGER	68006	3,536.00	68015	4,537.00
INT EQUIPPED-90 EQUIPPED WATER/WATER PLATE EXCHANGER	68007	3,710.00	68016	5,065.00
INT EQUIPPED-120 EQUIPPED WATER/WATER PLATE EXCHANGER	68008	4,186.00	68017	6,373.00
INT EQUIPPED-150 EQUIPPED WATER/WATER PLATE EXCHANGER	68009	4,275.00	68018	7,367.00
INT EQUIPPED-180 EQUIPPED WATER/WATER PLATE EXCHANGER	68010	4,828.00	68019	9,854.00
INT EQUIPPED-200 EQUIPPED WATER/WATER PLATE EXCHANGER	68011	4,954.00	68020	10,178.00
INT EQUIPPED-250 EQUIPPED WATER/WATER PLATE EXCHANGER	32563	6,055.00	33155	11,040.00
INT EQUIPPED-300 EQUIPPED WATER/WATER PLATE EXCHANGER	32565	6,492.00	33157	11,717.00
INT EQUIPPED-350 EQUIPPED WATER/WATER PLATE EXCHANGER	32566	6,943.00	33158	12,716.00
INT EQUIPPED-400 EQUIPPED WATER/WATER PLATE EXCHANGER	33119	7,160.00	33159	13,686.00
INT EQUIPPED-460 EQUIPPED WATER/WATER PLATE EXCHANGER	33120	7,305.00	33160	14,411.00
INT EQUIPPED-500 EQUIPPED WATER/WATER PLATE EXCHANGER	32567	7,348.00	33161	14,788.00
INT EQUIPPED-580 EQUIPPED WATER/WATER PLATE EXCHANGER	33121	8,646.00	33162	17,314.00
Equipped model +	l			
INT EQUIPPED+RECIR-15 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68021	4,097.00	68030	4,540.00
INT EQUIPPED+RECIR-35 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68022	4,278.00	68031	4,948.00
INT EQUIPPED+RECIR-50 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68023	5,466.00	68032	6,398.00
INT EQUIPPED+RECIR-60 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68024	5,500.00	68033	6,656.00
INT EQUIPPED+RECIR-90 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68025	6,324.00	68034	7,567.00
INT EQUIPPED+RECIR-120 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68026	6,477.00	68035	8,638.00
INT EQUIPPED+RECIR-150 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68027	7,822.00	68036	10,663.00
INT EQUIPPED+RECIR-180 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68028	8,287.00	68037	11,461.00
INT EQUIPPED+RECIR-200 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	68029	8,435.00	68038	11,958.00
INT EQUIPPED+RECIR-250 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	32576	11,528.00	33173	16,186.00
INT EQUIPPED+RECIR-300 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	32578	11,890.00	33175	16,448.00
INT EQUIPPED+RECIR-350 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	32579	12,478.00	33176	19,030.00
INT EQUIPPED+RECIR-400 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	33124	13,339.00	33177	19,862.00
INT EQUIPPED+RECIR-460 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	33125	14,878.00	33178	20,694.00
INT EQUIPPED+RECIR-500 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	32580	15,147.00	33179	21,527.00
INT EQUIPPED+RECIR-580 EQUIPPED RECIRCULATION PUMP WATER/WATER PLATE EXCHANGER	33126	15,712.00	33180	24,916.00

POOL HEATING & DEHUMIDIFICATION

Please see over for installation

ELECTRIC HEATERS

Compact ElectricHeat



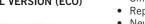
ELECTRIC VERSION



MANUAL VERSION (ECO)







- New linear configuration that offers ease of installation.
- New, more compact and simpler "all in" design. Simple and elegant lines.
- New more user-friendly interface. Now has new state-of-the-art touch sensor and OLED display (not available for the ECO version).
- More information for the user in a more intuitive fashion.
- New electrical connection system, simpler and faster.

INTERNALLY:

EXTERNALLY:

- Simplicity of components: the internal components have been simplified and reduced.
- Replaceable parts: now the internal components are easy to access and replace.
- New more accurate and more secure electronic adjustment (manual adjustment in the Eco version)
- New hardware and software able to detect failures in a pool facility and its units (not available for the ECO

Discount

Unit £

Standard model with Incoloy resistance, Titanium model with resistances in titanium.

Model specifically for Fluidra Connect (not available for the ECO version).





MANUAL VERSION (ECO)



Titanium models only

	group	3043	3 2
COMPACT 3	Р	60170	876.00
COMPACT 6	Р	60171	953.00
COMPACT 9	Р	60172	997.00
COMPACT 12	Р	60173	1,101.00
COMPACT 18	Р	60174	1,246.00
	_		
COMPACT 3 Titanium	Р	65321	1,242.00
COMPACT 6 Titanium	Р	65322	1,266.00
COMPACT 9 Titanium	Р	65323	1,293.00
COMPACT 12 Titanium	Р	65324	1,346.00
COMPACT 18 Titanium	Р	65325	1,375.00
COMPACT ECO 3	Р	69193	653.00
COMPACT ECO 6	Р	69194	674.00
COMPACT ECO 9	Р	69195	685.00
COMPACT ECO 12	Р	69196	731.00
COMPACT ECO 18	Р	69197	802.00

NB: INCOLOY models do NOT provide protection for salt electrolysis facilities, so this type of facility should use the TITANIUM model to prevent operational problems that would not be covered under warranty.

TECHNICAL SPECIFICATIONS								
	MODELS	COMPACT 3	COMPACT 6	COMPACT 9	COMPACT-12	COMPACT-18		
	CODE	60170	60171	60172	60173	60174		
		65321	65322	65323	65324	65325		
POWER	W	3000	6000	9000	12000	18000		
ELECTRICAL SUPPLY	V/Ph/Hz	220/2/50 or 380/4/50	220/2/50 or 380/4/50	220/2/50 or 380/4/50	220/2/50 or 380/4/50	380/3/50		
MIN. FLOW	m³/h		2.4					
MAX. FLOW	m³/h			10.0				
SERVICE PRESSURE	bar			2				
MAX. PRESSURE	bar			3				
0 CONNECTION	mm			50/63				
MAX. ABSORBED	220/2/50	14	27	41	54	-		
INTENSITY (AMP)	380/4/50	5	9	14	18	27		
GROSS WEIGTH	Kg		4.20					
NET WEIGTH	Kg			4.80				



ELECTRIC TUBULAR AIR & WATER HEATERS

Compact ElectricHeat - Installation guide

Diagram of assembly above the water level:

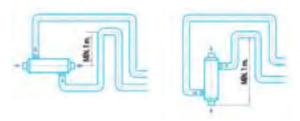
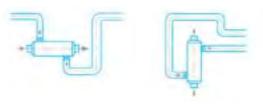


Diagram of assembly above the water level:





Behncke electric tubular water heater EWT 80/40

Made in S.S., complete with pressure switch & 0 to 50°C thermostat $1^1/2^{\text{"}}$ connections.

		Discount group	Code	Unit £
Power:	3 kW	Р	03745	679.00
	6 kW	P	03746	707.00
	(3 phase) 9 kW	P	03747	710.00
	(3 phase) 12 kW	P	03748	742.00
	(3 phase) 18 kW	Р	03749	803.00

Behncke heater spares EWT 80/40

	Discount group	Code	Unit £
3 kW Tubular Element	Р	023422000	303.00
6 kW Tubular Element	Р	023423000	331.00
9 kW Tubular Element	Р	03747R0010	335.00
12 kW Tubular Element	Р	30402022	383.00
18 kW Tubular Element	Р	30402028	434.00
Pressure Switch	P	P46-463	79.00





SELECTED SPARES KITS

330 • Pool surround equipment

331 • Pool shell equipment

336 • Filtration

360 • Pumps

367 • Pool Lighting & Ornamental features



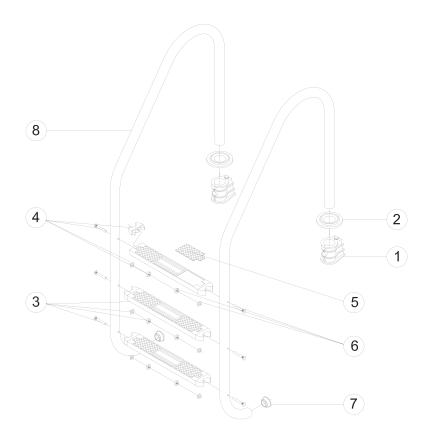




POOL SURROUND EQUIPMENT



Standard Ladder 2-3-4-5 Treads AISI-316



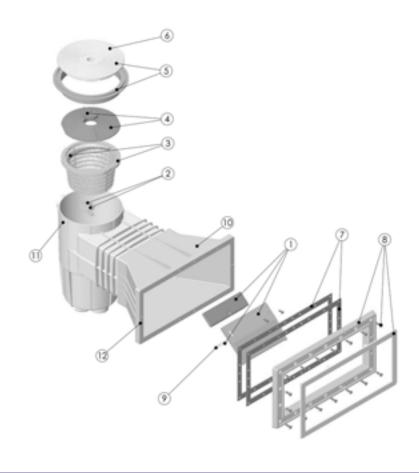
Pos.	Description	Discount group	Code	Unit £
1	LADDER ANCHOR (PAIR)	Α	4401010101	61.00
2	ESCUTCHEON 316 (SOLD EACH)	Α	05547	8.00
3	DELUXE TREAD 316	Α	4401010104	106.80
4	TREAD END SET 316	Α	4401010107	29.00
5	DELUXE TREAD END INSERT	Α	4401010108	27.00
6	TREAD BOLT SET 316	Α	4401010111	39.00
7	LADDER END CAP (PAIR)	Α	4401010112	15.50
	FLANGE FIXING SET (ITEM NOT SHOWN)	Α	4401010802	20.70
	DOUBLE TREAD (ITEM NOT SHOWN)	J	07603	113.00





Skimmer 15 L with wide mouth

SEE NEXT PAGE FOR SQUARE LID & SMALL FRAME

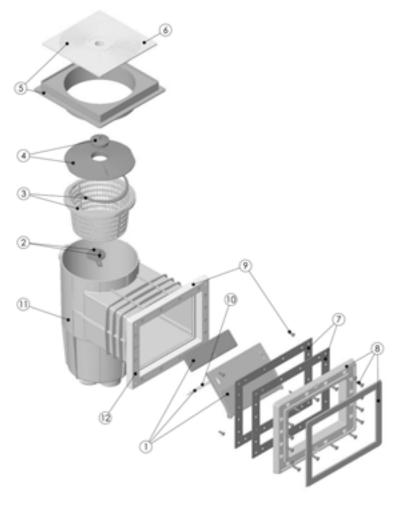


Pos.	Description	Discount group	Code	Unit £
1	FLAP RETAINING CLIP	Α	4402010101	17.20
2	KEYHOLE FLAP	Α	4402010102	4.50
3	BASKET 188 X 142 X 100h	Α	4402010103	10.70
4	VACUUM PLATE WITH PLUG	Α	4402010104	14.00
5	CIRCULAR LID AND LID FRAME	Α	4402010105	28.30
6	CIRCULAR SKIMMER LID	Α	4402010108	15.70
7	LARGE SKIMMER GASKETS FOR LINER	Α	4402010407	47.00
8	SKIMMER FRAME FOR LINER	Α	4402010408	36.00





Skimmer 15 L liner std throat, square lid

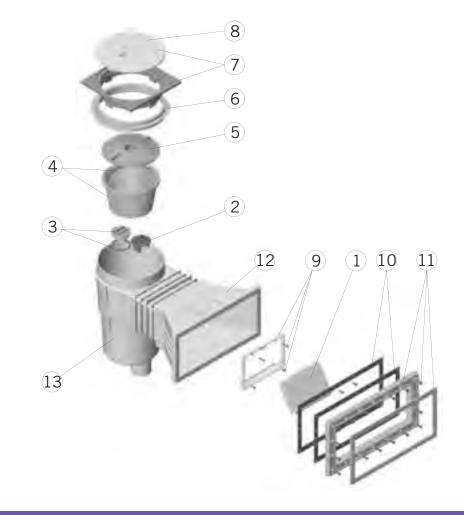


Pos.	Description	Discount group	Code	Unit £
1	SKIMMER FLAP	Α	4402010101	17.20
2	KEYHOLE FLAP	Α	4402010102	4.50
3	BASKET 188 X 142 X 100h	Α	4402010103	10.70
4	VACUUM PLATE WITH PLUG	Α	4402010104	14.00
5	SQUARE LID AND LID FRAME	Α	4402010106	41.00
6	SQUARE SKIMMER LID	Α	4402010107	22.00
7	SMALL SKIMMER GASKETS FOR LINER POOL	Α	4402010307	36.00
8	SMALL SKIMMER FRAME	Α	4402010308	33.00
9	SKIMMER FRAME ADAPTOR	Α	4402011113	68.30





Skmmer 17.5 L wide mouth for liner pools, square lid

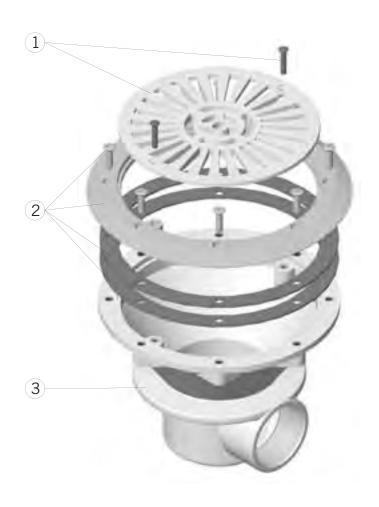


Pos.	Description	Discount group	Code	Unit £
1	SKIMMER FLAP	Α	4402010501	16.00
2	REGULATING PLUG	Α	4402010502	5.00
3	BLANKING PLUG AND 'O' RING	Α	4402010503	6.00
4	BASKET	Α	4402010504	10.00
5	VACUUM PLATE	Α	4402010505	18.50
6	COLLAR EXTENSION RING	Α	4402010506	15.00
7	SQUARE RIM AND LID	Α	4402010510	39.00
8	SKIMMER LID	Α	4402010509	30.20
9	FLAP FRAME	Α	4402010508	13.70
10	LARGE SKIMMER GASKETS FOR LINER	Α	4402010407	47.00
11	SKIMMER FRAME FOR LINER	Α	4402010408	36.00





Drain

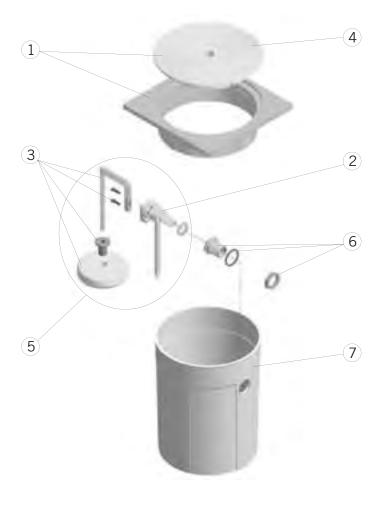


Pos.	Description	Discount group	Code	Unit £
1	DRAIN GRILLE CONCRETE (GRILLE 270mm)	Α	4402020101	30.10
1	DRAIN GRILLE LINER (GRILLE 210mm)	Α	4402021102	13.70
1	DRAIN GRILLE LINER (GRILLE 175MM)	Α	4402021002	17.00
2	DRAIN FLANGE WITH GASKETS FOR GRILLE 4402021102	A	4402021101	50.00
2	DRAIN FLANGE WITH GASKETS FOR 4402021002	Α	4402021001	76.00





Level regulator



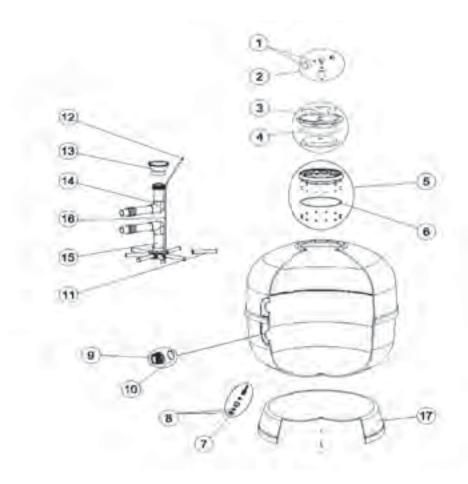
Pos.	Description	Discount group	Code	Unit £
1	FRAME WITH CIRCULAR LID COVER	Α	4402060201	28.90
2	ADJUSTABLE NOZZLE	Α	4402060202	37.00
3	LEVEL REGULATOR FLOATARM ASSEMBLY	Α	4402060203	7.60
4	CIRCULAR SKIMMER LID	Α	4402010108	15.70
5	VALVE ASSEMBLY	Α	4402060204	53.00
6	FIXATION VALVE UNIT	Α	4402060205	9.00



Aster filters side valve

CODES: 00497-00498-00499-00500-19781-21071





Pos.	Description	Discount group	Code	Unit £
1	OLD STYLE PRESSURE GAUGE UNIT 1/8"	Α	4404020101	41.00
2	PRESSURE GAUGE ASSEMBLY FOR NEW STYLE LID	Α	4404020041	40.00
3	NEW STYLE QUICK CLOSING LID UNIT	Α	4404020040	185.00
4	LID GASKET	Α	4404020111	27.80
5	LID RING UNIT	Α	4404020108	101.10
6	'O' RING 255X4	Α	4404020116	15.80
7	WATER PURGE 3/8"	Α	4404010108	13.30
7	21/2" SAND DRAIN	Α	4404040010	46.10
8	DRAIN PLUG AND GASKET	Α	4404040113	3.50
9	FITTING 1 1/2" + O'RING	Α	4404040103	18.90
9	FITTING 2" + O'RING	Α	4404040112	18.90
10	O' RING D. 60x8	Α	4404040115	6.60
11	LATERAL SET FOR 350/450MM	Α	AL350	18.40





Aster filters side valve

CODES: 00497-00498-00499-00500-19781-21071

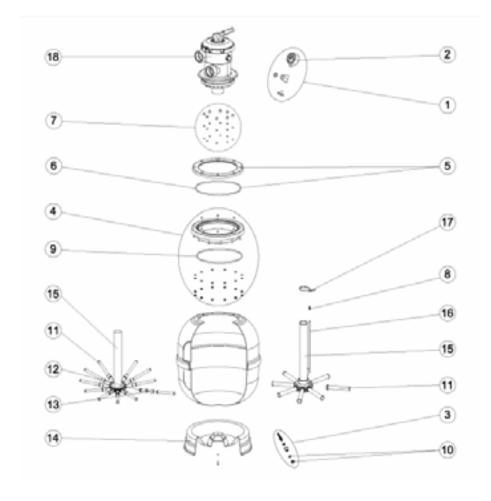
Pos.	Description	Discount group	Code	Unit £
11	LATERAL SET FOR 600 mm	Α	AL600	20.00
11	LATERAL SET FOR 750 mm	Α	AL750	30.60
12	AIR PURGE	Α	4404040108	2.80
13	DIFFUSER D. 50	Α	4404301004	13.30
13	DIFFUSOR D. 63	Α	4404300910	34.30
14	DIFFUSOR ASSEMBLY D. 500	Α	4404010118	36.30
14	DIFFUSOR ASSEMBLY D. 600	Α	4404010119	36.20
14	DIFFUSOR ASSEMBLY D. 750	Α	4404010120	69.80
15	COLLECTOR ASSEMBLY D 500	Α	4404010114	74.30
15	COLLECTOR ASSEMBLY D 600	Α	4404010115	74.60
15	COLLECTOR ASSEMBLY D 750	Α	4404010116	159.60
17	BASE D 500	Α	4404010134	67.80
17	BASE D 600	Α	4404010113	85.40
17	BASE D 750	Α	4404300924	120.40





Aster filters top valve

CODES: 30768-30769-30770-30771-30772-33847-33848



Pos.	Description	Discount group	Code	Unit £
1	COMPLETE PRESSURE GAUGE UNIT	Α	4404220101	47.10
2	PRESSURE GAUGE 1/8"	Α	4404220102	34.10
3	WATER PURGE 3/8"	Α	4404040108	2.80
3	21/2" SAND DUMP ASSEMBLY	Α	4404040010	46.10
4	20-SCREW NECK RING	Α	4404160809	127.20
5	VALVE TOP FIXING RING	Α	4404260105	46.10
6	VALVE TOP RING FIXING GASKET	Α	4404260106	9.00
7	VALVE TOP FIXING RING SCREWS	Α	4404260107	15.40
8	AIR PURGE	Α	4404040108	2.80
9	'O' RING 255X4	Α	4404020116	15.80
10	DRAIN PLUG AND GASKET	Α	4404040113	3.50
11	LATERAL SET FOR 350/450mm	Α	AL350	18.40
11	LATERAL SET FOR 500mm	Α	AL500	20.00

The list of spares continues on the next page $% \left(1\right) =\left(1\right) \left(1\right)$



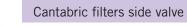


Aster filters top valve

CODES: 30768-30769-30770-30771-30772-33847-33848

Pos.	Description	Discount group	Code	Unit £
11	LATERAL SET FOR 600 mm	Α	AL600	20.00
12	LATERAL SET FOR 750 mm	Α	AL750	30.60
14	BASE D 500	Α	4404010134	67.80
14	BASE D 600	Α	4404010113	85.40
14	BASE D 750	Α	4404300924	120.40
15	COLLECTOR ASSEMBLY ASTER D. 500 TOP 1"	Α	4404270020	61.80
15	COLLECTOR ASSEMBLY ASTER D. 600 TOP 1"	Α	4404270022	62.40
15	COLLECTOR ASSEMBLY ASTER D. 750 TOP 1"	Α	4404270024	102.70
15	COLLECTOR ASSEMBLY ASTER D. 900 TOP 1"	Α	4404270025	196.00
18	MULTIPORT VALVE 11/2"	Α	31993	101.00
18	MULTIPORT VALVE 2"	Α	33969	177.00







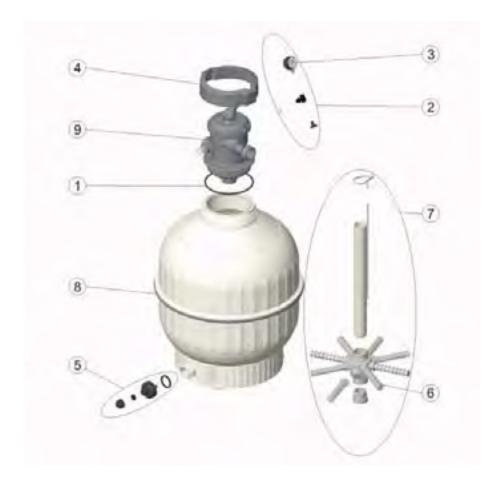


Pos.	Description	Discount group	Code	Unit £
1	LID O RING	Α	4404180201	15.20
2	THREADED LID COLLAR	Α	4404180102	33.20
3	COMPLETE PRESSURE GAUGE UNIT	Α	4404080104	40.00
4	PRESSURE GAUGE 1/8" 3 KG/CM	Α	4404010103	28.30
5	TRANSPARENT LID AND O RING (NOT 900MM)	Α	4404180105	50.60
5	TRANSPARENT LID AND O RING 900MM ONLY	Α	4404180112	105.00
7	SAND PURGE 1 ½"	Α	4404180110	12.40
8	LATERAL SET 500 MM	Α	C500	18.40
8	LATERAL SET 600 MM	Α	C600	18.40
8	LATERAL SET 750 MM	Α	C750	85.80
9	COLLECTOR ASSEMBLY CANTABRIC D. 500	Α	4404180015	129.40
9	COLLECTOR ASSEMBLY CANTABRIC D. 600	Α	4404180016	166.30
9	COLLECTOR ASSEMBLY CANTABRIC D. 750	Α	4404180013	224.70





Cantabric filters top valve



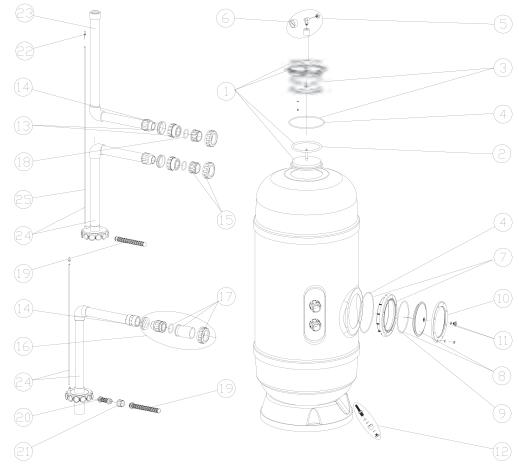
Pos.	Description	Discount group	Code	Unit £
1	LID O RING	Α	4404180201	15.20
2	COMPLETE PRESSURE GAUGE UNIT	Α	4404220101	47.10
3	PRESSURE GAUGE 1/8" 3 KG./CM	Α	4404220102	34.10
4	OPEN THREADED COLLAR	Α	4404180204	40.00
5	SAND PURGE 1 ½"	Α	4404180110	12.40
6	LATERAL SET 500 MM	Α	C500	18.40
6	LATERAL SET 600 MM	Α	C600	18.40
6	LATERAL SET 750 MM	Α	C750	85.80
7	COLLECTOR ASSEMBLY CANTABRIC D. 500	Α	4404180021	138.60
7	COLLECTOR ASSEMBLY CANTABRIC D. 600	Α	4404180022	135.70
7	COLLECTOR ASSEMBLY CANTABRIC D. 750	Α	4404180023	268.50
9	TOP MOUNT VALVE	Α	20565	101.00



PTK filters 1000 d. 500-650-800-950

CODES: 07994-00495-00496-07454





Pos.	Description	Discount group	Code	Unit £
1	NEW STYLE QUICK CLOSING LID UNIT	Α	4404020040	185.00
2	LID GASKET	Α	4404020111	27.80
3	LID RING UNIT	Α	4404020108	101.10
4	O' RING 255x4	Α	4404020116	15.80
5	PRESSURE GAUGE UNIT 1/8"	Α	4404020101	41.00
6	NEW STYLE PRESSURE GAUGE ASSEMBLY	Α	4404020041	40.00
6	OLD STYLE PRESSURE GAUGE 1/8" 3 KG./CM	Α	4404010103	28.30
7	20-SCREW NECK RING	Α	4404160809	127.20
8	FILTER LID D. 220 BLACK	Α	4404160847	50.60
9	VALVE TOP RING FIXING GASKET	Α	4404260106	9.00
10	FIXING RING	Α	4404160849	38.40
11	DRAIN PLUG AND GASKET	Α	4404040113	3.50
12	WATER PURGE 3/8"	Α	4404010108	13.30





PTK filters 1000 d. 500-650-800-950

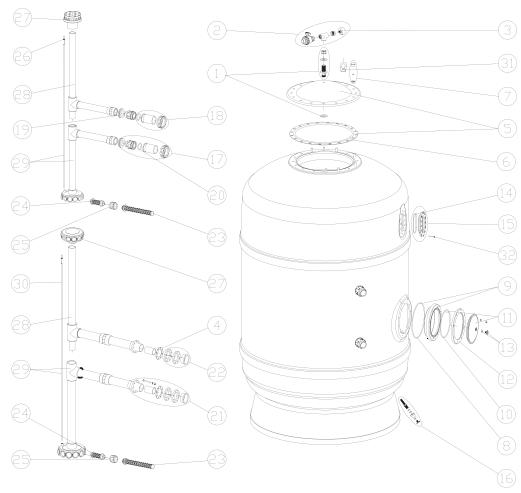
CODES: 07994-00495-00496-07454

Pos.	Description	Discount group	Code	Unit £
13	1 ½" FITTING + CONCAVE GASKET	A	4404020103	31.50
13	2" FITTING + GASKET	A	4404020103	30.30
14	CONCAVE GASKET 1 1/2"	A	4404020033	20.00
14	CONCAVE GASKET 2"	A	4404020112	22.50
	CONCAVE GASKET 2 1/2"		4404190112	19.90
14		A		
15	GASKETS + NUT D.50	Α	4404301902	22.30
15	GASKETS + NUT D.63	Α	4404301903	23.10
16	2 ½" - D.75 OUTLET ASSEMBLY	Α	4404302701	86.00
17	3 PIECE CONNECTION 75	Α	4404302702	35.30
18	O RING D.56,3X5.3 EPDM65	Α	4404301901	3.20
18	GASKET 2 1/2"	Α	4404302703	5.90
19	LATERAL SET FOR 650MM FILTER 1m BED	Α	PL650	20.40
19	LATERAL SET FOR 800MM FILTER 1m BED	Α	PL800	75.60
20	LATERAL SET FOR 950MM FILTER 1m BED	Α	PL950	76.20
22	AIR PURGE	Α	4404040108	2.80
23	DIFFUSER ASSEMBLY PTK 1000 D.650	Α	4404040078	113.90
23	DIFFUSER ASSEMBLY PTK 1000 D.800	Α	4404040079	141.80
23	DIFFUSER ASSEMBLY PTK 1000 D.950	Α	4404040081	185.90
24	COLLECTOR ASSEMBLY PTK 1000 D.650	Α	4404040074	157.70
24	COLLECTOR ASSEMBLY PTK 1000 D.800	Α	4404040075	399.30
24	COLLECTOR ASSEMBLY PTK 1000 D.950	Α	4404040077	422.50
	OLD STYLE MANHOLE ASSEMBLY (ITEM NOT SHOWN)	Α	4404161512	103.40
	OLD STYLE MANHOLE O RING	Α	4404070101	14.30





PTK filters 1200 d. 1000-1200



Pos.	Description	Discount group	Code	Unit £
1	PRESSURE GAUGE CONNECTION	Α	4404302001	13.00
2	PRESSURE GAUGE SET	Α	4404302002	66.50
3	PRESSURE GAUGE 1/8" 3 KG./CM	Α	4404180405	10.00
4	FLAT GASKET 181X112X5	Α	4404302004	33.00
5	FILTER LID + GASKET	Α	4404161514	410.80
6	LID 'O' RING	Α	4404160101	45.90
7	FILTER LID BOLTS	Α	4404260211	100.30
8	O' RING 255x4	Α	4404020116	15.80
9	20-SCREW NECK RING	Α	4404160809	127.20
10	VALVE TOP RING FIXING GASKET	Α	4404260106	9.00
11	FILTER LID D. 220 BLACK	Α	4404160847	50.60
12	LID FIXING RING	Α	4404160849	38.40





PTK filters 1200 d. 1000-1200

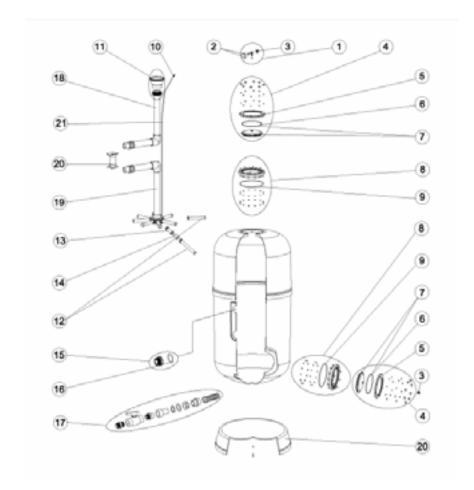
Pos.	Description	Discount group	Code	Unit £
13	DRAIN PLUG AND GASKET	Α	4404040113	3.50
14	O' RING D. 110,5X5.6	Α	4404301916	12.80
15	FILTER VISOR WITH GASKET	Α	4404161510	46.50
16	WATER PURGE 3/8"	Α	4404010108	13.30
17	2 ½" - D.75 OUTLET ASSEMBLY	Α	4404302701	86.00
18	3 PIECE CONNECTION 75	Α	4404302702	35.30
19	CONCAVE GASKET 2 1/2"	Α	4404190112	19.90
20	GASKET 2 1/2"	Α	4404302703	5.90
21	KIT INLET/OUTLET	Α	4404161453	241.00
22	FLANGE FITTING 90 + FITTING	Α	4404160111	95.70
23	LATERAL ASSEMBLY 650mm 1.2m BED	Α	PL65012	20.40
23	LATERAL ASSEMBLY 800mm 1.2m BED	Α	PL80012	75.60
24	LATERAL ASSEMBLY 1000mm 1.2m BED	Α	PL100012	171.50
25	LATERAL ASSEMBLY 1200mm 1.2m BED	Α	PL120012	422.60
26	AIR PURGE	Α	4404040108	2.80
27	DIFFUSER D.110 8 OUTLETS	Α	4404190324	22.90
28	DIFFUSER ASSEMBLY PTK 1200 D.1000	Α	4404260220	585.80
28	DIFFUSER ASSEMBLY PTK 1200 D.1200	Α	4404260221	579.70
29	COLLECTOR ASSEMBLY PTK 1200 D.1000	Α	4404260222	800.40
29	COLLECTOR ASSEMBLY PTK 1200 D.1200	Α	4404260401	80.10



Artic filters d. 500-650-800-950

CODES: 34029, 34030, 34031, 41187





Pos.	Description	Discount group	Code	Unit £
1	COMPLETE PRESSURE GAUGE UNIT	Α	4404080104	40.00
2	PRESSURE GAUGE 1/8" 3 KG./CM	Α	4404010103	28.30
3	CAP	Α	4404130107	4.10
4	SET LID	Α	4404303002	72.40
5	LID FIXING RING	Α	4404160849	38.40
6	VALVE TOP RING FIXING GASKET	Α	4404260106	9.00
7	FILTER LID D. 220 BLACK	Α	4404160847	50.60
8	20-SCREW NECK RING	Α	4404160809	127.20
9	O' RING 255X4	Α	4404020116	15.80
10	AIR PURGE	Α	4404040108	2.80
11	DIFFUSER CONE D. 50	Α	4404301004	13.30
11	DIFFUSER CONE D. 63	Α	4404300910	34.30





Artic filters d. 500-650-800-950

CODES: 34029, 34030, 34031, 41187

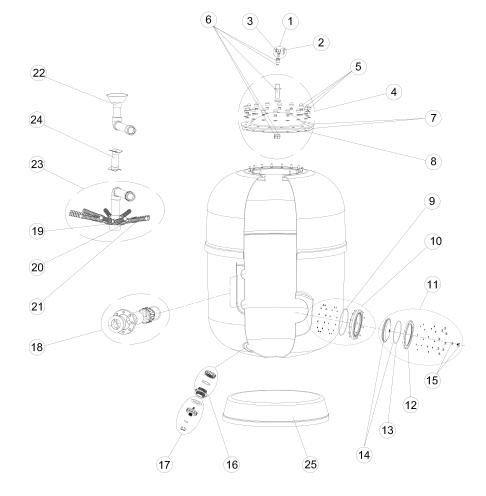
Pos.	Description	Discount group	Code	Unit £
11	DIFFUSER CONE D. 75	Α	4404190324	22.90
12	LATERAL SET FOR 650mm, 1m BED	Α	ARL650	20.40
12	LATERAL SET FOR 800mm 1m BED	Α	ARL800	30.60
13	LATERAL SET FOR 950mm, 1m BED	Α	ARL950	76.20
14	LATERAL SET FOR 1200mm, 1m BED	Α	ARL1200	129.60
15	O' RING D. 60x8	Α	4404040115	6.60
15	O' RING D. 70X5	Α	4404040211	9.30
16	FITTING 1 1/2" + O'RING	Α	4404040103	18.90
16	FITTING 2" + O'RING	Α	4404040112	18.90
16	FITTING 21/2" + O'RING	Α	4404290108	23.60
17	DRAIN SET	Α	4404303004	86.00
18	DIFFUSER ASSEMBLY D.500	Α	4404010244	47.40
18	DIFFUSER ASSEMBLY D.650	Α	4404010245	104.30
18	DIFFUSER ASSEMBLY D. 800 2"	Α	4404010246	93.60
18	DIFFUSER ASSEMBLY D.950 2 1/2"	Α	4404010247	201.90
19	COLLECTOR ASSEMBLY D.500	Α	4404010248	123.80
19	COLLECTOR ASSEMBLY D.650	Α	4404010249	133.60
19	COLLECTOR ASSEMBLY D.800	Α	4404010250	162.30
19	COLLECTOR ASSEMBLY D.950 2 1/2"	Α	4404010251	265.70
22	BASE D 500	Α	4404010134	67.80
22	BASE D 650	Α	4404010241	76.50
22	BASE D 800	Α	4404010242	402.70
22	BASE D 950	Α	4404010293	569.30



Artic filters d. 1050-1200

CODES: 41188, 41189





Pos.	Description	Discount group	Code	Unit £
1	COMPLETE PRESSURE GAUGE UNIT	Α	4404080104	40.00
2	PRESSURE GAUGE 1/8" 3 KG./CM	Α	4404010103	28.30
3	CAP	Α	4404130107	4.10
4	FILTER LID UNIT	Α	4404260207	612.50
5	FILTER LID BOLTS	Α	4404260211	100.30
6	PRESSURE GAUGE ANCHOR	Α	4404260210	45.50
7	FILTER LID + GASKET	Α	4404260208	376.60
8	LID 'O' RING	Α	4404160101	45.90
9	O' RING 255X4	Α	4404020116	15.80
10	20-SCREW NECK RING	Α	4404160809	127.20
11	SET LID	Α	4404303002	72.40





Artic filters d. 1050-1200

CODES: 41188, 41189

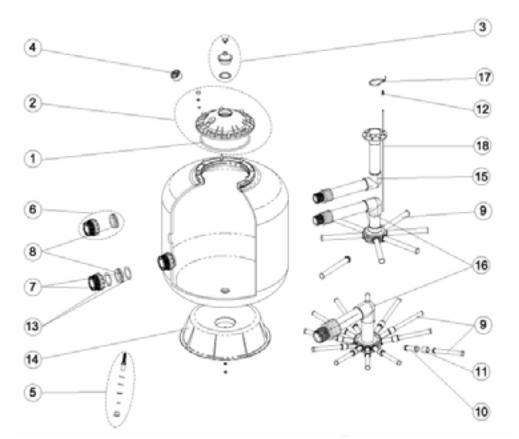
Pos.	Description	Discount group	Code	Unit £
12	LID FIXING RING	Α	4404160849	38.40
13	VALVE TOP RING FIXING GASKET	Α	4404260106	9.00
14	TRANPARENT LID D.220 + 'O' RING	Α	4404190303	53.30
15	CAP	Α	4404290101	5.40
16	BUSH FOR DISCHARGE	Α	4404260501	33.00
17	SAND PURGE 2"	Α	4404180114	17.00
18	90mm OUTLET ASSEMBLY	Α	4404260218	153.90
18	110mm OUTLET ASSEMBLY	Α	4404260412	237.60
19	LATERAL SET 650mm, 1.2m BED	Α	RL65012	20.40
20	LATERAL SET 800mm, 1.2m BED	Α	RL80012	30.60
21	LATERAL SET 950mm, 1.2m BED	Α	RL95012	76.20
21	LATERAL SET 1200mm, 1.2m BED	Α	RL120012	129.60
22	DIFFUSER ASSEMBLY D. 90	Α	4404160278	343.20
22	DIFFUSER ASSEMBLY D. 110	Α	4404160279	471.20
23	COLLECTOR ASSEMBLY D. 90	Α	4404160274	356.80
23	COLLECTOR ASSEMBLY D. 110	Α	4404160275	543.00
24	COLLECTOR SUPPORT - DIFUSOR D. 1050	Α	4404260401	77.60
24	COLLECTOR SUPPORT - DIFUSOR D. 1200	Α	4404260402	109.40
25	FILTER BASE D. 1050	Α	20070R0151	poa
25	FILTER BASE D. 1200	Α	20068R0151	poa



Berlin filter side outlet d. 500 - 600 - 750

CODES: 00541-00542-00543





Pos.	Description	Discount group	Code	Unit £
1	LID GASKET	Α	4404070101	14.30
2	FILTER LID	Α	4404070102	91.20
3	AIR RELIEF SIGHT GLASS	Α	4404070103	18.20
4	PRESSURE GAUGE 1/8" 3 KG./CM"	Α	4404010103	28.30
5	DRAINAGE STRAINER NOZZLE 3/8"	Α	4404070105	16.00
6	1 ½" FITTING + GASKET	Α	4404020103	31.50
7	2" FITTING + GASKET	Α	4404020033	30.30
8	CONCAVE GASKET 1 1/2"	Α	4404020112	20.00
8	CONCAVE GASKET 2"	Α	4404020034	22.50
9	LATERAL SET 500mm (PRE 2006 ONLY)	Α	B500	18.40
9	LATERAL SET 600mm (PRE 2006 ONLY)	Α	B600	18.40
10	LATERAL SET 750mm (PRE 2006)	Α	B750	85.80





Berlin filter side outlet d. 500 - 600 - 750

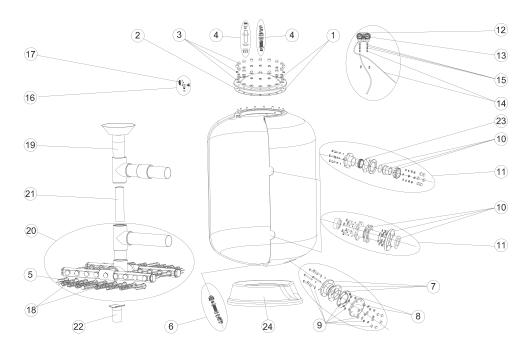
CODES: 00541-00542-00543

Pos.	Description	Discount group	Code	Unit £
12	AIR PURGE	Α	4404040108	2.80
13	FITTING + OUTLET GASKET 2"	Α	4404070113	19.20
14	BASE D 500-600	Α	4404010050	66.00
14	BASE D 750	Α	4404010041	116.50
15	DIFFUSOR ASSEMBLY D. 500	Α	4404010042	38.00
15	DIFFUSOR ASSEMBLY D. 600	Α	4404010043	50.30
15	DIFFUSOR ASSEMBLY D. 750	Α	4404010044	79.80
16	COLLECTOR ASSEMBLY BERLIN D. 500 1"	Α	4404010045	53.40
16	COLLECTOR ASSEMBLY BERLIN D. 600 1"	Α	4404010046	62.90
16	COLLECTOR ASSEMBLY BERLIN D. 750 1"	Α	4404010047	135.10





Praga filter



Pos.	Description	Discount group	Code	Unit £
1	FILTER LID + GASKET	Α	4404160102	514.60
2	LID 'O' RING	Α	4404160101	45.90
3	FILTER LID BOLTS	Α	4404160103	58.00
4	PRESSURE GAUGE ANCHOR	Α	4404260210	45.50
4	AIR PURGE 3/4"	Α	4404160106	21.50
5	LATERAL SET 1050 MM, 75 MM (3/4" LATERALS PRE 2006 ONLY)	Α	PL1050	177.20
5	LATERAL SET 1200 MM, 75 MM (3/4" LATERALS PRE 2006 ONLY)	Α	PL1200	177.20
5	LATERAL SET 1400 MM, 90 MM (3/4" LATERALS PRE 2006 ONLY)	Α	PL1400	164.10
5	LATERAL SET 1600 MM, 110 MM (3/4" LATERALS PRE 2006 ONLY)	Α	PL1600	366.80
5	LATERAL SET 1800 MM, 110 MM (3/4" LATERALS PRE 2006 ONLY)	Α	PL1800	366.80
5	LATERAL SET 2000 MM, 125 MM (3/4" LATERALS PRE 2006 ONLY)	Α	PL2000	612.40
6	WATER PURGE 3/4"	Α	4404160109	37.10
7	SAND PURGE 90	Α	4404160107	121.40
7	SAND PURGE 140	Α	4404160405	84.40
8	BLANK FLANGE 90 + GASKET (UPTO 1400 mm)	Α	4404160108	75.80
8	BLANK FLANGE 140 + GASKET (FROM 1600 mm)	Α	4404160406	128.90
9	SCREW SET SAND DISCHARGE D.90	Α	4404161449	124.30





Praga filter

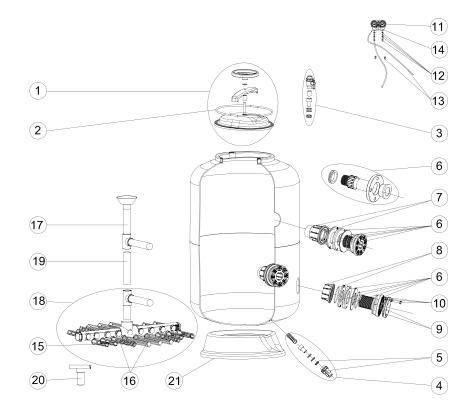
CODES: 00687 TO 00692 - 00696 TO 00699 - 00702 - 00703 - 00705

Pos.	Description	Discount group	Code	Unit £
9	SCREW SET SAND DISCHARGE D.140	Α	4404160147	91.50
10	3 PIECE CONNECTION 63	Α	4404070206	25.30
10	FLANGE FITTING 75	Α	4404160110	43.00
10	FLANGE FITTING 90	Α	4404160111	95.70
10	FLANGE FITTING 110	Α	4404160113	247.40
10	FLANGE FITTING 125	Α	4404160509	211.40
10	FLANGE FITTING 140	Α	4404160515	144.50
10	FLANGE FITTING 160	Α	4404160610	116.10
11	KIT INLET/ONTLET D.75-1050-1200	Α	4404161451	149.20
11	KIT INLET/ONTLET D.90-1400	Α	4404161453	241.00
11	KIT INLET/ONTLET D.110-1400	Α	4404161454	268.10
11	KIT INLET/ONTLET D.110-1600-1800	Α	4404161456	290.90
11	KIT INLET/ONTLET D.125-2000	Α	4404161457	418.70
11	KIT INLET/ONTLET D.125-2000	Α	4404161459	481.50
12	PRESSURE GAUGE PANEL BODY	Α	4404170105	5.20
13	PRESSURE GAUGE 3 BAR	Α	4404170102	87.60
14	PRESSURE FITTINGS + TUBE	Α	4404170104	9.20
15	AIR BLEED ASSEMBLY	Α	4404170103	13.40
16	COMPLETE PRESSURE GAUGE UNIT	Α	4404080104	40.00
17	PRESSURE GAUGE 1/8" 3 KG./CM	Α	4404010103	28.30
19	DIFFUSOR ASEMBLY D. 1050-75	Α	4404160080	95.90
19	DIFFUSOR ASSEMBLY D. 1200-75	Α	4404160082	120.80
19	DIFFUSOR ASSEMBLY D. 1400-90	Α	4404160085	338.10
19	DIFFUSER ASSEMBLY 1600-110	Α	4404160088	532.80
19	DIFFUSER ASSEMBLY 1800-110	Α	4404160091	637.90
19	DIFFUSOR ASSEMBLY 2000 125	Α	4404160095	532.80
23	GASKET OUTLET D. 63 - 75	Α	4404160144	27.10
24	FILTER BASE D. 1050	Α	00687R0101	poa
24	FILTER BASE D. 1200	Α	00546R0101	poa
24	FILTER BASE D. 1400	Α	00689R0101	poa
24	FILTER BASE D. 1600	Α	00690R0101	poa
24	FILTER BASE D. 1800	Α	00691R0101	poa
24	FILTER BASE D. 2000	Α	00692R0101	poa





Vic filter



Pos.	Description	Discount group	Code	Unit £
1	FILTER LID	Α	4404161601	769.40
2	LID GASKET	Α	4404161602	44.90
3	AIR PURGE 1"	Α	4404161603	69.10
4	WATER PURGE 1"	Α	4404161604	96.80
5	UNIBLOCK VALVE 1"	Α	4404161605	49.10
6	INLET/OUTLET ASSEMBLY SAND 75/90	Α	4404161606	273.90
6	INLET/OUTLET ASSEMBLY 110/125	Α	4404161607	391.10
6	INLET/OUTLET ASSEMBLY 140/160	Α	4404161608	541.10
7	INNER FITTING 75/90	Α	4404161609	142.00
7	INNER FITTING 110/125	Α	4404161610	174.00
7	INNER FITTING 140/160	Α	4404161611	225.30
8	NUT UNLOAD SAND	Α	4404161612	186.10





Vic filter

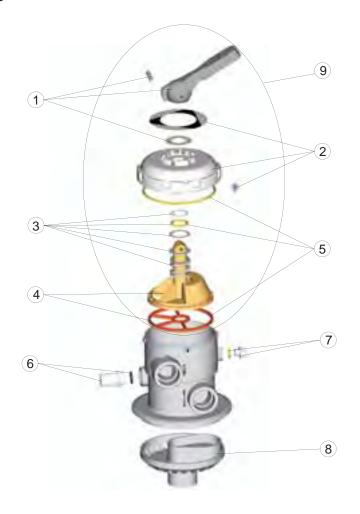
Pos.	Description	Discount group	Code	Unit £
9	BLANK FLANGE + GASKET	Α	4404161613	87.70
10	BLANK FLANGE SCREWS	Α	4404161614	61.30
11	PRESSURE GAUGE 3 BAR	Α	4404170102	87.60
12	AIR BLEED ASSEMBLY	Α	4404170103	13.40
13	PRESSURE FITTINGS + TUBE	Α	4404170104	9.20
14	PRESSURE GAUGE PANEL BODY	Α	4404170105	5.20
15	LATERAL ASSEMBLY 1050 75	Α	VL1050	179.00
15	LATERAL ASSEMBLY 1200 75	Α	VL1200	196.00
15	LATERAL ASSEMBLY 1400 90	Α	VL1400	277.00
15	LATERAL ASSEMBLY 1600 110	Α	VL1600	369.00
15	LATERAL ASSEMBLY 1800 110.	Α	VL1800	494.00
15	LATERAL ASSEMBLY 2000 125	Α	VL2000	544.00
17	DIFFUSOR OUTLET SET D 75 - 1050	Α	4404160138	152.00
17	DIFFUSOR OUTLET SET D 75 - 1200	Α	4404160140	154.90
17	DIFFUSOR OUTLET SET D 90 - 1400	Α	4404160143	223.70
17	DIFFUSOR OUTLET SET D 110 - 1600	Α	4404160148	285.80
17	DIFFUSOR OUTLET SET D 110 - 1800	Α	4404160151	343.80
17	DIFFUSOR OUTLET SET D 125 - 2000	Α	4404160155	367.00
18	COLLECTOR OUTLET SET D 75 - 1050	Α	4404160159	533.00
18	COLLECTOR OUTLET SET D 75 - 1200	Α	4404160161	102.10
18	COLLECTOR OUTLET SET D 90 - 1400	Α	4404160164	364.40
18	COLLECTOR OUTLET SET D 110 - 1600	Α	4404160167	845.00
18	COLLECTOR OUTLET SET D 110 - 1800	Α	4404160170	282.40
18	COLLECTOR OUTLET SET D 125 - 2000	Α	4404160174	1,415.00
21	FILTER BASE D. 1050	Α	00687R0101	POA
21	FILTER BASE D. 1200	Α	00546R0101	POA
21	FILTER BASE D. 1400	Α	00689R0101	POA
21	FILTER BASE D. 1600	Α	00690R0101	POA
21	FILTER BASE D. 1800	Α	00691R0101	POA
21	FILTER BASE 2000	Α	00692R0101	POA



Multiport valve 1 ½" top

CODES: 20565





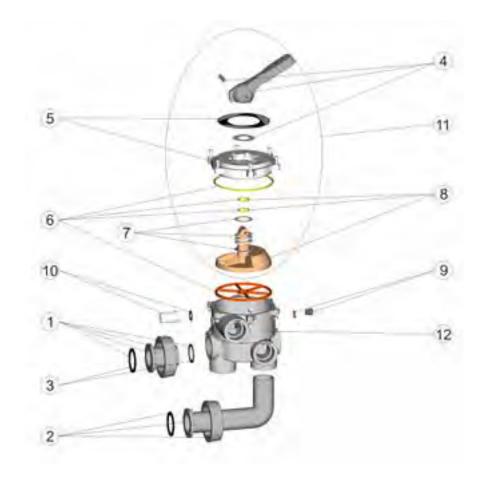
Pos.	Description	Discount group	Code	Unit £
1	BLACK HANDLE 11/2"-2"	Α	4404120102	15.00
2	TOP	Α	4404121102	26.40
3	SPRING	Α	4404121103	18.00
4	DISTRIBUTOR WITH GASKETS	Α	4404121104	31.60
5	GASKETS 1 1/2"	Α	4404121105	14.00
6	VISOR WITH SEAL	Α	4404120108	4.50
7	PLUG 1/4"	Α	4404121107	2.20
8	DIFFUSER	Α	4404121408	16.00
9	UPPER PART 1 1/2" BAYONET CLOSING BLACK	Α	4404121110	103.00





Multiport valve

CODES: 00599



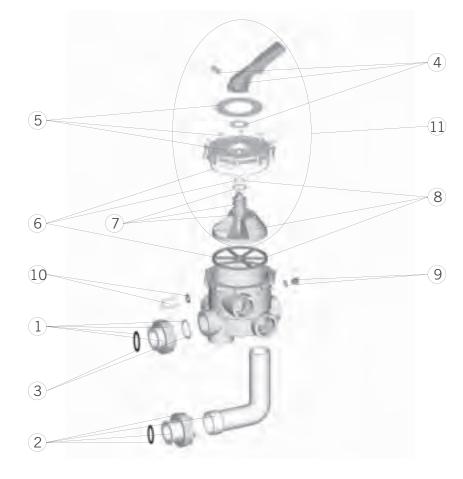
Pos.	Description	Discount group	Code	Unit £
1	UNION BLACK 1 1/2" NEW	Α	4404120202	36.00
2	ELBOW BLACK 1 1/2" NEW	Α	4404120204	39.00
3	UNION SEALS 1 1/2"	Α	4404120205	9.00
4	HANDLE 11/2"	Α	4404120102	15.00
5	TOP 1 1/2"	Α	4404120103	34.00
6	GASKETS 1 1/2"	Α	4404120107	18.00
7	SPRING WITH WASHERS	Α	4404120105	18.00
8	DISTRIBUTOR WITH GASKETS 1 1/2"	Α	4404120106	42.60
9	PLUG 1/4"	Α	4404120109	3.20
10	VISOR WITH SEAL	Α	4404120108	4.50
11	TOP ASSEMBLY BLACK 1 $^{1}/_{2}$ " NEW	Α	4404120110	85.10





Multiport valve 2"

CODES: 07444



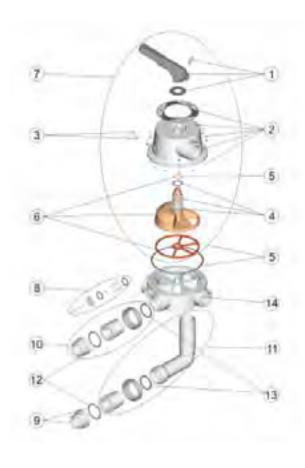
Pos.	Description	Discount group	Code	Unit £
1	UNION BLACK 2"	Α	4404120502	34.80
2	ELBOW BLACK 2"	Α	4404120504	52.40
3	UNION SEALS 2"	Α	4404120505	3.60
4	BLACK HANDLE 2"	Α	4404120402	16.00
5	BLACK TOP 2"	Α	4404120403	54.80
6	GASKETS 2"	Α	4404120407	29.00
7	SPRING WITH WASHERS	Α	4404120105	18.00
8	DISTRIBUTOR WITH GASKETS 2"	Α	4404120406	79.30
9	PLUG 1/4"	Α	4404121107	2.20
10	VISOR WITH SEAL	Α	4404120108	4.50
11	TOP ASSEMBLY BLACK 2" NEW	Α	4404120410	142.70



FILTRATION

Multiport valve 2 1/2"

CODES: 24837-00613



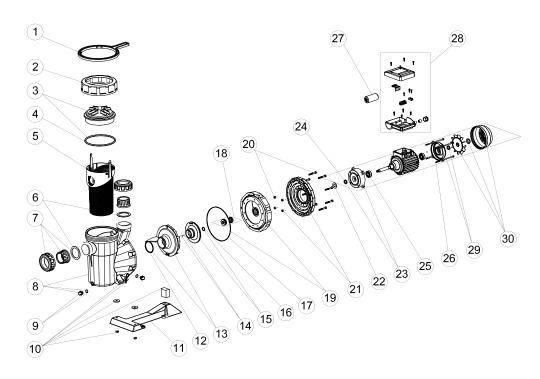
Pos.	Description	Discount group	Code	Unit £
1	HANDLE 2 1/2"	Α	4404120701	45.10
2	VALVE BODY 2 1/2"	Α	4404121302	poa
3	PLUG 1/4"	Α	4404120109	3.20
4	SPRING WITH WASHERS 2 1/2"	Α	4404120703	53.10
5	GASKETS 2 1/2"	Α	4404120705	49.40
6	DISTRIBUTOR WITH GASKETS 2 1/2"	Α	4404120704	111.90
7	TOP ASSEMBLY 2 1/2" BLACK"	Α	4404121310	398.60
8	VISOR COMPLETE	Α	4404120706	18.00
9	EXTERNAL UNION 75 WITH SEAL	Α	4404121002	12.40
10	UNION 2 ½"	Α	4404121308	70.70
11	ELBOW 2 1/2"	Α	4404121309	86.50
12	GASKET 2 1/2"	Α	4404121301	6.20
13	INLET GASKET 72X61X3.5	Α	4404121303	5.10





Astral Victoria Plus pump

CODES: 38769 to 38780



Pos.	Description	Discount	Code	Unit £
	LUD ODANINED	group		
1	LID SPANNER	Α	4404130103	20.50
2	PRE-FILTER COVER NUT	Α	4404130101	24.80
3	LID AND O'RING	Α	4405010702	69.40
4	O' RING D 151.7x6.99	Α	4405010178	27.50
5	PRE-FILTER BASKET	Α	4405010105	27.20
6	INLET GASKET 72x55x2.5	Α	4405010179	3.80
7	METRIC UNION FITTINGS <= 1 HP	Α	4405010106	27.40
7	METRIC UNION FITTINGS 1.5 HP - 2 HP	Α	4405010107	25.80
8	PUMP HOUSING	Α	4405010109	302.70
9	DRAIN PLUG 1/4"	Α	4405010110	3.10
10	BASE FITTINGS	Α	4405010206	16.40
10	BASE FITTINGS 2 HP - 3 HP	Α	4405010113	18.90
10	BASE FITTINGS 3 HP II	Α	4405010180	18.10
11	Base 1/2HP - 1HP	Α	4405010207	32.70
11	BASE 1.5HP - 3HP	Α	4405010114	54.90
12	O' RING D. 56.7x3.5	Α	4405010161	3.80
13	DIFFUSOR <=0.75HP	Α	4405010115	48.70
13	DIFFUSOR 1 HP - 2 HP	Α	4405010116	48.70
13	DIFFUSOR 3HP	Α	4405010117	34.80

The list of spares continues on the next page





Astral Victoria Plus pump

CODES: 38769 to 38780

Pos.	Description	Discount group	Code	Unit £
14	IMPELLER COVER M8 LEFT	Α	4405010134	19.20
15	IMPELLER 0.5 HP II 50 Hz	Α	4405010591	108.90
15	IMPELLER 0.5 HP III 50 Hz	Α	4405010592	112.00
15	IMPELLER 0.75HP II 50 Hz	Α	4405010593	105.30
15	IMPELLER 0.75HP III 50 Hz	Α	4405010594	109.80
15	IMPELLER 1 HP II 50 Hz	Α	4405010595	108.00
15	IMPELLER 1 HP III 50 Hz	Α	4405010596	109.90
15	IMPELLER 1.5 HP II 50 Hz	Α	4405010597	108.30
15	IMPELLER 1.5 HP III 50 Hz	Α	4405010598	114.50
15	IMPELLER 2 HP II 50 Hz	Α	4405010599	92.70
15	IMPELLER 2 HP III 50 Hz	Α	4405010600	115.70
15	IMPELLER 3 HP II 50 Hz	Α	4405010601	121.40
15	IMPELLER 3 HP III 50 Hz	Α	4405010602	117.50
16	DEFLECTOR WASHER (1/2-3/4-1-1,5-2 HP)	Α	4405010162	1.90
17	MOTOR CLAMP GASKET	Α	4405010160	3.30
18	MECHANICAL SEAL	Α	4405010118	36.90
19	MECHANICAL SEAL PLATE	Α	4405010132	92.00
20	FLANGE SCREWS	Α	4405010133	16.00
21	MOTOR CLAMP <= 1 HP	Α	4405010130	49.80
21	MOTOR CLAMP 1.5 HP - 3HP	Α	4405010131	49.80
22	DEFLECTOR WASHER C.71 1/2-1 HP	Α	4405010163	3.20
22	DEFLECTOR WASHER C.80 1,5-3 HP	Α	4405010164	2.90
23	FRONT MOTOR COVER 0.5 HP	Α	4405010137	71.90
23	FRONT MOTOR COVER 0.75- 1 HP	Α	4405010138	73.40
23	FRONT MOTOR COVER 1.5 - 2 - 3 HP III	Α	4405010139	85.50
24	V-RINGS 0.5 HP - 1 HP	Α	4405010158	10.20
24	V-RINGS 1.5 HP - 3 HP	Α	4405010159	10.20
24	V-RINGS VA-25 3 HP II	Α	4405010176	53.70
25	MOTOR BEARINGS < 1 HP	Α	4405010135	77.50
25	MOTOR BEARINGS 1.5 HP - 3 HP	Α	4405010136	86.70
26	MOTOR TIES C. 63	Α	4405010143	15.00
26	MOTOR TIES 0.75- 1 HP	Α	4405010144	23.90
26	MOTOR TIES 1.5 - 3 HP III	Α	4405010145	26.10
26	MOTOR TIES (90) 3 HP II	Α	4405010169	8.00
27	CONDENSER 12 uF	Α	4405010149	28.10
27	CONDENSER 14 uF	Α	4405020121	29.40
27	CONDENSER 16 uF	Α	4405020122	28.80
27	CONDENSER 18 uF	Α	4405010150	75.00
27	CONDENSER 25 uF	Α	4405010152	90.40

The list of spares continues on the next page





Astral Victoria Plus pump

CODES: 38769 to 38780

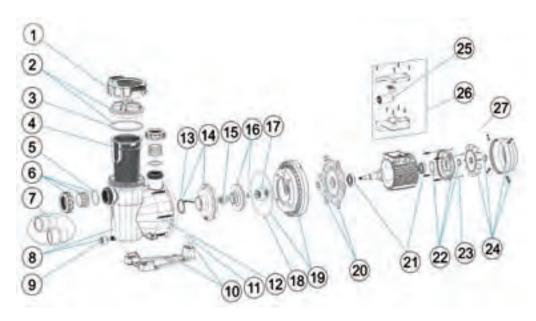
Pos.	Description	Discount group	Code	Unit £
27	CONDENSER 32 µf	Α	4405010174	49.10
27	CONDENSER 40 µF	Α	4405010175	60.80
27	CONDENSER 35 uF	Α	4405010153	51.10
28	TERMINAL BOX ASSEMBLY 1/2 HP - 1 HP II	Α	4405010154	39.80
28	TERMINAL BOX ASSEMBLY 1.2 HP - 2 HP II	Α	4405010155	23.40
28	TERMINAL BOX COVER 1/2 HP - 1 HP III	Α	4405010156	15.00
28	TERMINAL BOX ASSEMBLY 1.5 HP - 3 HP III	Α	4405010157	16.30
29	REAR MOTOR COVER 1/3 - 1/2 HP	Α	4405010140	26.10
29	REAR MOTOR COVER 3/4 - 1 HP	Α	4405010141	50.70
29	REAR MOTOR COVER 1.5 - 3 HP III	Α	4405010142	28.40
30	FAN COVER ASSEMBLY 0.5 HP	Α	4405010146	28.50
30	FAN COVER ASSEMBLY 0.75- 1 HP	Α	4405010147	37.20
30	FAN COVER ASSEMBLY 1.5 - 2 - 3 HP III	Α	4405010148	41.50
30	FAN COVER ASSEMBLY 3 HP II	Α	4405010170	75.40





Astral Victoria Plus New Generation pump

CODES: 65557 to 65570



Pos.	Description	Discount group	Code	Unit £
1	PRE-FILTER COVER NUT	Α	4405010585	58.60
2	PRE-FILTER COVER	Α	4405010702	69.40
3	LID O RING	Α	4405010178	27.50
4	PREFILTER BASKET	Α	4405010105	27.20
5	INLET GASKET	Α	4405010179	3.80
6	UNION FITTINGS 50MM 0.5HP - 1HP (PLS ASK FOR IMPERIAL)	Α	4405010106	27.40
6	UNION FITTINGS 63MM 1.5HP - 3HP (PLS ASK FOR IMPERIAL)	Α	4405010107	25.80
7	CONICAL FITTINGS 3HP ONLY	Α	4405010717	41.00
8	PUMP HOUSING	Α	4405010586	361.30
9	DRAIN PLUG	Α	4405010587	11.20
10	PUMP BASE 0.5HP - 1HP	Α	4405010588	92.20
10	PUMP BASE 1.5HP - 3HP	Α	4405010492	103.80
11	PUMP BASE FITTINGS 0.5HP - 1HP	Α	4405010112	17.20
11	PUMP BASE FITTINGS 1.5HP - 3HP	Α	4405010113	18.90
12	BODY FIXING SCREW	Α	4405010590	112.00
13	DIFFUSOR O RING	Α	4405010161	3.80
14	DIFFUSOR 0.5HP - 0.75HP	Α	4405010115	48.70
14	DIFFUSOR 1HP - 2HP	Α	4405010116	48.70
14	DIFFUSOR 3HP	Α	4405010117	34.80

The list of spares continues on the next page





Astral Victoria Plus New Generation pump

CODES: 65557 to 65570

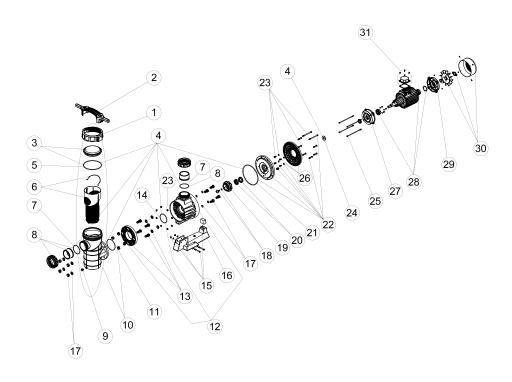
Pos.	Description	Discount group	Code	Unit £
16	IMPELLER 0.5HP II	Α	4405010591	108.90
16	IMPELLER 0.5HP III	Α	4405010592	112.00
16	IMPELLER 0.75HP II	Α	4405010593	105.30
16	IMPELLER 0.75HP III	Α	4405010594	109.80
16	IMPELLER 1HP II	Α	4405010595	108.00
16	IMPELLER 1HP III	Α	4405010596	109.90
16	IMPELLER 1.5HP II	Α	4405010597	108.30
16	IMPELLER 1.5HP III	Α	4405010598	114.50
16	IMPELLER 2HP II	Α	4405010599	92.70
16	IMPELLER 2HP III	Α	4405010600	115.70
16	IMPELLER 3HP II	Α	4405010601	121.40
16	IMPELLER 3HP III	Α	4405010602	117.50
17	MECHANICAL SEAL	Α	4405010118	36.90
18	BODY O RING	Α	4405010487	33.80
19	MECHANICAL SEAL PLATE	Α	4405010603	154.30
20	FRONT MOTOR FLANGE 0.5HP-1HP	Α	4405010604	191.50
20	FRONT MOTOR FLANGE 1.5HP-2HP	Α	4405010607	176.70
20	FRONT MOTOR FLANGE 3HP	Α	4405010608	227.60
21	BEARINGS 0.5HP-1HP	Α	4405010609	68.30
21	BEARINGS 1.5HP-3HP	Α	4405010610	79.10
24	FAN COVER ASSEMBLY 0.5HP-1HP	Α	4405010635	115.60
24	FAN COVER ASSEMBLY 1.5HP-3HP (NOT 3HP II)	Α	4405010636	110.30
24	FAN COVER ASSEMBLY 3HP II	Α	4405010637	73.30
25	CAPACITOR 0.5HP 12UF	Α	4405010149	28.10
25	CAPACITOR 0.75HP 14UF	Α	4405020121	29.40
25	CAPACITOR 1HP 16UF	Α	4405020122	28.80
25	CAPACITOR 1.5HP 18UF	Α	4405010150	75.00
25	CAPACITOR 2HP 32UF	Α	4405010174	49.10
26	TERMINAL BOX ASSEMBLY 0.5HP II - 1HP II	Α	4405010154	39.80
26	TERMINAL BOX ASSEMBLY 0.5HP III - 1HP III	Α	4405010156	15.00
26	TERMINAL BOX ASSEMBLY 1.5HP II - 3HP II	Α	4405012048	56.80
26	TERMINAL BOX ASSEMBLY 1.5HP III - 3HP III	Α	4405012051	56.40





Maxim pump

CODES: 08003-08004-08005



Pos.	Description	Discount group	Code	Unit £
1	THREADED LID COLLAR	Α	4404180102	33.20
2	KEY FOR PREFILTER NUT	Α	4405010379	72.50
3	PRE-FILTER COVER	Α	4405010302	42.50
4	GASKETS	Α	4405010303	34.30
5	O' RING D 192x5	Α	4405010373	9.20
6	PRE-FILTER BASKET	Α	4405010304	94.30
7	SUCTION/RETURN GASKETS	Α	4405010375	6.70
8	UNION FITTINGS	Α	4405010306	185.60
9	DRAIN PLUG 1/4"	Α	4405010110	3.10
10	PREFILTER ASSEMBLY KIT	Α	4405010305	426.80
11	O' RING D 124x3.5	Α	4405010377	4.10
12	PUMP BODY 3.5 HP	Α	4405010307	240.80
12	PUMP BODY 4.5 HP	Α	4405010308	262.30
12	PUMP BODY 5.5 HP	Α	4405010309	285.80
13	FLANGE FIXING SCREWS	Α	4405010380	142.40
14	O' RING D 100x4	Α	4405010376	5.30
15	PUMP BASE FITTINGS <=4.5 HP	Α	4405010313	19.90
15	PUMP BASE FITTINGS 5.5 HP	Α	4405010314	25.10

The list of spares continues on the next page





Maxim pump

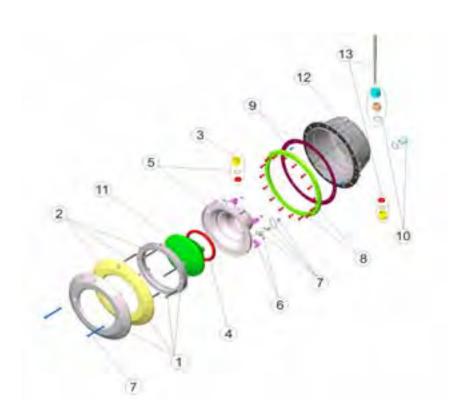
CODES: 08003-08004-08005

Pos.	Description	Discount group	Code	Unit £
16	PUMP BASE	Α	4405010315	115.90
17	BACK PLATE SCREWS	Α	4405010311	108.90
18	IMPELLER COVER	Α	4405010338	7.40
19	IMPELLER 3.5 HP III 50 Hz	Α	4405010323	54.00
19	IMPELLER 4.5 HP III 50 Hz	Α	4405010324	66.10
19	IMPELLER 5.5 HP III 50 Hz	Α	4405010325	79.20
20	MECHANICAL SEAL	Α	4405010322	191.90
21	O' RING D 226x6	Α	4405010378	18.80
22	MECHANICAL SEAL PLATE 3.5 HP	Α	4405010334	144.00
22	MECHANICAL SEAL PLATE 4.5 - 5.5 HP	Α	4405010335	152.10
23	FLANGE SCREWS	Α	4405010337	23.00
24	DEFLECTOR WASHER 24x50x6 4HP	Α	4405010374	2.90
25	MOTOR TIES 3.5 - 4.5 HP VAR.	Α	4405010361	18.90
25	MOTOR TIES 4,5-5.5 HP VAR.	Α	4405010362	24.80
26	MOTOR CLAMP 3.5 HP	Α	4405010332	120.40
26	MOTOR CLAMP 4.5 - 5.5 HP	Α	4405010333	173.80
27	FRONT MOTOR COVER 2.5-3 HP (BONORA)	Α	4405010369	227.70
27	FRONT MOTOR COVER 4.5-5.5 HP	Α	4405030121	327.10
27	FRONT MOTOR COVER 2.5-3 HP (VERNIS)	Α	4405010381	76.80
28	MOTOR BEARINGS 5.5 HP MERC.	Α	4405010342	133.80
28	BEARINGS ASSEMBLY 6205 2RS 3.5 HP	Α	4405010171	116.20
29	REAR MOTOR COVER 3.5 HP (BONORA)	Α	4405010367	76.10
29	REAR MOTOR COVER 4.5-5.5 HP	Α	4405030117	84.00
29	REAR MOTOR COVER 2.5-3-3.5 HP (VERNIS)	Α	4405010382	47.50
30	FAN COVER ASSEMBLY 3.5 (VERNIS)	Α	4405010383	73.30
30	FAN COVER ASSEMBLY 4.5-5.5 HP	Α	4405010384	176.30
31	CONNECTION BOX ASSEMBLY 2.5-3-4.5 HP (BON-VER)	Α	4405030119	65.30





Underwater Light 300W



Pos.	Description	Discount group	Code	Unit £
1	S.S. FACEPLATE AND SECURING RING 8	Α	4403010301	128.60
2	WHITE FACEPLATE	Α	4403010302	35.40
3	PACKING GLAND M-25	Α	4403010312	5.10
4	LIGHT O RING	Α	4403010304	23.40
5	BACK COVER	Α	4403010305	53.40
6	LIGHT FIXING CLIP	Α	4403010306	10.40
7	FIXING SET UNDERWATER LIGHT	Α	4403015002	24.50
8	LIGHT RIM	Α	4403010901	32.00
9	LIGHT ADHESIVE GASKET	Α	4403012412	38.90
10	BODY PACKING GLAND M-25	Α	4403010313	7.00
11	LED WHITE BULB	Α	52596	288.00

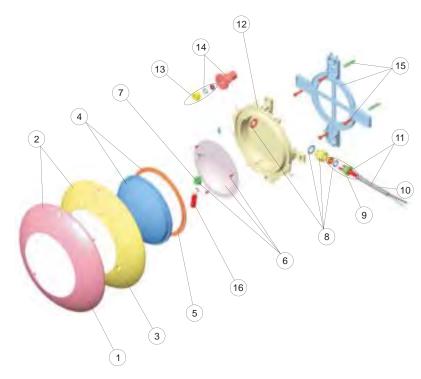
PLEASE ASK SALES OFFICE FOR BEST LED REPLACEMENT SOLUTION





Flat underwater Light

CODES: 21626-35666



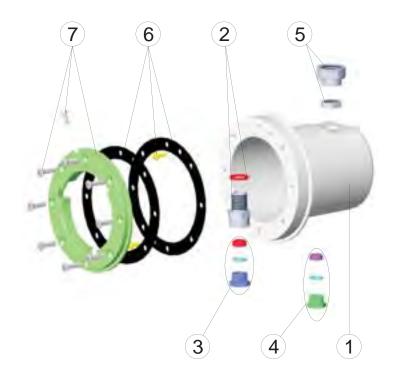
Pos.	Description	Discount group	Code	Unit £
1	STAINLESS STEEL FACEPLATE	Α	4403012304	60.00
2	FACEPLATE SET	Α	4403012301	117.30
3	ABS FACEPLATE	Α	4403011901	29.10
4	CLEAR LENS + GASKET	Α	4403012303	27.50
5	LIGHT SILICON GASKET	Α	4403010102	9.90
6	LAMPHOLDER REFLECTOR PLATE	Α	4403011903	78.90
7	LAMP HOLDER	Α	4403011407	16.10
8	GLAND SEAL M-16 KT 19,5X2	Α	4403012302	19.50
9	KIT PLUG PACKING GLAND 12X2	Α	4403014101	6.00
10	LIGHT CABLE	Α	4403011905	54.10
12	LIGHT BODY	Α	4403011908	79.40
13	PACKING GLAND PG-9	Α	4403012704	4.90
14	CONDUIT CONNECTOR	Α	4403011907	5.30
15	LIGHT SUPPORT	Α	4403011906	21.70





Niche for Dichro Light

CODES: 06967-00369-49828



Pos.	Description	Discount group	Code	Unit £
1	MINI LEDS LIGHT NICHE	Α	4403015901	41.80
1	PANEL POOL LIGHT NICHE FOR 49828	Α	4403015902	57.50
2	BODY CABLE CONDUIT UWL MINI	Α	4403014102	44.40
3	LIGHT PACKING GLAND	Α	4403010107	3.20
4	LIGHT PACKING GLAND PG-11	Α	4403014706	6.00
5	ADAPTOR PG-11 TO M-25	Α	4403014104	12.20
6	DICHRO LIGHT ADHESIVE GASKET	Α	4403011703	5.20
7	DICHRO LIGHT FLANGE	Α	4403011602	22.00





Dichro Light

CODES: 49820-49821-49822-49823



Pos.	Description	Discount group	Code	Unit £
1	PACKING GLAND	Α	4403010107	3.20
3	LENS KIT	Α	4403012003	28.70
4	LAMP HOLDER	Α	4403011407	16.10
5	STAINLESS STEEL FACEPLATE	Α	4403013702	70.00
6	ABS FACEPLATE LARGE	Α	4403011601	21.70
7	ABS FACEPLATE SMALL	Α	4403012101	4.10
9	PLASTIC BODY	Α	33708R0001	176.50

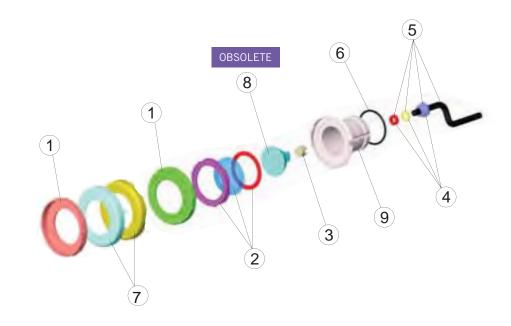
PLEASE ASK SALES OFFICE FOR BEST LED REPLACEMENT SOLUTION





Dichro Light

CODES: 33708-36646



Pos.	Description	Discount group	Code	Unit £
1	FACEPLATE ABS	Α	4403012101	4.10
2	LENS KIT	Α	4403012003	28.70
3	LAMP HOLDER	Α	4403011407	16.10
4	LIGHT PACKING GLAND	Α	4403010107	3.20
6	LIGHT O RING	Α	4403011406	4.40
7	STAINLESS STEEL FACEPLATE	Α	4403014801	65.00
9	LAMP BODY PLASTIC	Α	33708R0001	176.50

PLEASE ASK SALES OFFICE FOR BEST LED REPLACEMENT SOLUTION



1. INTERPRETATION

1.1 In these Conditions, the following definitions apply:

Business Day: a day (other than a Saturday, Sunday or a public holiday) when banks in London are open for business.

AstralPool UK/Fluidra SA Products: goods manufactured by the Group and affixed with the Company/Group branding.

Company: AstralPool UK Limited registered in England and Wales with company number 1823941.

Company's Premises: Units 30-32 Palmerston Business Park, Newgate Lane, Fareham, Hants PO14 1DJ

Group: Fluidra SA, Avda.Francesc Maciá 60, Planta 20, Sabadell, 08208 Barcelona, Spain.

Conditions: these terms and conditions as amended from time to time in accordance with clause 20.7.

Contract: the contract between the Company and the Customer for the supply of Goods and/or Services in accordance with these Conditions.

Customer: the person or firm who purchases the Goods and/or Services from the Company.

Force Majeure Event: means an event beyond the reasonable control of the Company including but not limited to strikes, lock-outs or other industrial disputes (whether involving the workforce of the party or any other party), failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, compliance with any law or governmental order, rule, regulation or direction, accident, breakdown of plant or machinery, fire, flood, storm or default of suppliers or subcontractors.

Goods: the AstralPool/Fluidra SA Products and/or Third Party Products (or any part of them) set out in the Order.

Goods Specification: any specification for the Goods, including any relevant plans or drawings that are agreed in writing by the Customer and the Company.

Intellectual Property Rights: all patents, rights to inventions, utility models, copyright and related rights, trademarks, service marks, trade, business and domain names, rights in trade dress or get-up, rights in goodwill or to sue for passing off, unfair competition rights, rights in designs, rights in computer software, database right, topography rights, moral rights, rights in confidential information (including know-how and trade secrets) and any other intellectual property rights, in each case whether registered or unregistered and including all applications for and renewals or extensions of such rights, and all similar or equivalent rights or forms of protection in any part of the world.

Order: the Customer's order for the supply of Goods and/or Services, as set out in the Customer's purchase order form or via telephone or via the Website.

Services: the installation and/or application and/or repair and/or maintenance of the Goods (if required and agreed) by the Company as set out in the Order.

Third Party Products: goods manufactured and/or supplied by third parties and supplied by the Company as the third party's wholesale supplier or agent.

Website: the website www.astralpool.co.uk operated by the Company and any other website(s) operated by the Company from time to time, and as may be updated from time to time.

- 1.2 A reference to writing or written includes fax but not e-mail.
- 1.3 Any words following the terms including, include, in particular, for example or any similar expression shall be construed as illustrative and shall not limit the sense of the words, description, definition, phrase or term preceding those terms.

2. BASIS OF CONTRACT

- 2.1 The Order constitutes an offer by the Customer to purchase Goods and/or Services in accordance with these conditions.
- 2.2 The Order shall only be deemed to be accepted when the Company issues (at its complete discretion) written acceptance of the Order at which point and on which date the Contract shall come into existence.
- 2.3 The Contract constitutes the entire agreement between the parties. The Customer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of the Company which is not set out in the Contract.
- 2.4 Any samples, drawings, descriptive matter or advertising issued by the Company and any descriptions of the Goods contained in the Company's catalogues, brochures or Website are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. They shall not form part of the Contract or have any contractual force.
- 2.5 These Conditions apply to the Contract to the exclusion of any other terms that the Customer seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.
- 2.6 Any quotation given by the Company shall not constitute an offer and may be withdrawn at any time and shall in any event lapse on the date 30 days from the date of issue unless specified otherwise in writing.
- 2.7 The Customer shall obtain and maintain all necessary licences, permissions and consents which may be required for the Goods before the date on which the Goods are to be delivered and shall comply with all applicable laws, including any requirements under the Offensive Weapons Act 2019 and health and safety laws which may be relevant to the purchase of the Goods.
- 2.8 Reverse VAT. The Company is VAT and CIS registered. We will assume the Customer is an End User for the purposes of the domestic Reverse Charge VAT Scheme for construction services and consequently we will not apply the Reverse Charge VAT rules. It is the responsibility of the Customer to advise us if they consider the Reverse Charge should apply.

3. GOODS

- 3.1 The Goods are described in the Company's pricelists and on the Website, as modified by any applicable Goods Specification, or as described in any applicable Goods Specification.
- 3.2 To the extent that the Goods are to be manufactured in accordance with a Goods Specification supplied by the Customer, the Customer shall indemnify the Company against all liabilities, costs, expenses, damages and losses (including any direct, indirect or consequential losses, loss of profit, loss of reputation and all interest, penalties and legal and other professional costs and expenses) suffered or incurred by the Company in connection with any claim made against the Company for actual or alleged infringement of a third party's Intellectual Property Rights arising out of or in connection with the Company's use of the Goods Specification. This clause 3.2 shall survive termination of the Contract.
- 3.3 The Company reserves the right to amend the specification of the Goods if required by any applicable statutory or regulatory requirements.



4. DELIVERY OF GOODS

- 4.1 Unless the Goods are to be collected by the Customer from the Company's Premises or such other location as may be advised by the Company before delivery, the Company shall deliver the Goods to the location set out in the Order (or such other location as the parties may agree). If the Customer is a consumer, the Company shall deliver the Goods within 30 days after the date on which the Company e-mails the Customer to confirm acceptance of its Order (or such longer period as the parties may agree).
- 4.2 Except as provided in clause 4.4, any dates quoted for delivery of the Goods are approximate only, and the time of delivery is not of the essence.
- 4.3 Delivery of the Goods shall be completed on the Goods' arrival at the Customer's premises or other delivery address specified by the Customer or on completion of loading of the Goods at the premises from which the Customer is collecting the Goods (as applicable) and the Company shall not be liable for any delay in delivery of the Goods or performance of the Services that is caused by a Force Majeure Event or the Customer's failure to provide the Company with adequate delivery instructions or any other instructions that are relevant to the supply of the Goods and/or Services.
- 4.4 If the Customer is a consumer, and the Company misses the 30 day delivery deadline for any Goods, then the Customer may cancel the Order straight away if any of the following apply:
 - (a) the Company has refused to deliver the Goods;
 - (b) delivery within the delivery deadline was essential (taking into account the relevant circumstances); or
 - (c) the Customer told the Company before it accepted the Order that delivery within the delivery deadline was essential.
- 4.5 If the Company fails to deliver the Goods (including if the Customer is a consumer and it chooses to cancel the Order for late delivery under clause 4.4), the Company's liability shall be limited to a refund of the price paid for the Goods (and, if the Customer is a Consumer, any delivery costs the Customer has paid (although as permitted by law, the maximum refund will be the costs of delivery by the least expensive delivery method the Company offers (provided that is a common and generally acceptable method)). The Company shall have no liability for any failure to deliver the Goods to the extent that such failure is caused by a Force Majeure Event, the Customer's failure to provide the Company with adequate delivery instructions for the Goods, or adequate access for delivery or any relevant instruction related to the supply of the Goods.
- 4.6 If the Customer fails to accept or take delivery of the Goods within 30 Business Days of the Company notifying the Customer that the Goods are ready, then except where such failure or delay is caused by a Force Majeure Event or by the Company's failure to comply with its obligations under the Contract in respect of the Goods:
 - (a) delivery of the Goods shall be deemed to have been completed at 9.00 am on the Business Day following the day on which the Company notified the Customer that the Goods were ready; and
 - (b) the Company shall store the Goods until delivery takes place, and charge the Customer for all related costs and expenses (including insurance).
- 4.7 Any person accepting delivery at the Customer's premises or agreed delivery address shall be 18 years of age or over and shall be deemed to have the Customer's authority to accept the Goods. The Customer shall be liable for any additional delivery charges if the Company is unable to deliver due to:
 - (i) the Customer or any other person not being available to accept delivery; or
 - (ii) the Customer or any other person not being (in the reasonable opinion of Astral Pool UK) 18 years or over and unable to provide identification to establish their age.
- 4.8 If 30 Business Days after the Company notified the Customer that the Goods were ready for delivery the Customer has not accepted or taken delivery of them, the Company may resell or otherwise dispose of part or all of the Goods and, after deducting reasonable storage and selling costs, account to the Customer for any excess over the price of the Goods or charge the Customer for any shortfall below the price of the Goods.
- 4.9 The Customer shall not be entitled to reject the Goods if the Company delivers up to and including 5 per cent more or less than the quantity of Goods ordered, but a pro-rata adjustment shall be made to the Order invoice on receipt of notice from the Customer that the wrong quantity of Goods was delivered. Notification of non-delivery or damage to the Goods must be made in writing to the Company within three Business Days of the date when the Goods should have or have been delivered.
- 4.10 Damage caused in transit or non-delivery of the Goods (or any part of them) which is apparent by reasonable inspection on delivery must be notified immediately to the Company and recorded on the carrier's paperwork at the time of delivery. The Company shall have no liability for non-delivery or delivery of damaged Goods unless notification is made by the Customer tothe Company as prescribed by this clause 4.10.
- 4.11 The Company may deliver the Goods by instalments, which shall be invoiced and paid for separately. If the Company delivers the Goods by instalments due to operational reasons or shortage of stock, the Customer will not be charged extra delivery costs for this. If the Customer requests that the Company deliver the Order in instalments, the Company reserves the right to charge the Customer additional delivery costs. Each instalment shall constitute a separate contract. Any delay in delivery or defect in an instalment shall not entitle the Customer to cancel any other instalment.

5. QUALITY OF GOODS

5.1 AstralPool/Fluidra Products

- (a) The Company warrants that on delivery and for a period of 2 years from the date of delivery, the AstralPool/Fluidra Products will conform in all material respects with their description and any applicable Goods Specification and shall be free from material defects. If some or all of the AstralPool/Fluidra Products do not comply with the warranty set out in this clause 5.1, the Company will, at its option, subject to the rest of this clause 5.1, either make good by repair or by the supply of a replacement, defects which, under proper use, appear in the AstralPool/FluidraProducts within a period of 12 months after the AstralPool/Fluidra Products have been delivered and installed, provided that:
 - (i) the Customer notifies the Company in writing of the claimed defects immediately on their appearance;
 - (ii) the Company is satisfied that the defects arise solely from faulty design (other than a design made, furnished or specified by the Customer), materials or workmanship;
 - (iii) if required by the Company, the AstralPool/Fluidra Products claimed to be defective are returned to the Company at the expense of the Customer (unless the Customer is a consumer, in accordance with clause 7.7); and
 - (iv) where the Customer requests the Company to install the replacement product it shall pay for those Services in accordance with clause 9.
- (b) The repaired or replacement AstralPool/Fluidra Products will be delivered to the Customer at the original place of delivery, but otherwise the provisions of these Conditions shall apply to any repaired or replacement AstralPool/Fluidra.Products.
- (c) As an alternative to clause 5.1(a), the Company shall be, in its absolute discretion, entitled to return the sums paid by the Customer for the defective AstralPool/Fluidra Products to the Customer if the Customer has already paid such sums when the claimed defect is notified by the Customer to the Company.



- (d) The Company shall not be liable for the AstralPool/Fluidra Products' failure to comply with the warranty in clause 5.1 if:
 - (i) the Customer makes any further use of such AstralPool/Fluidra Products after giving a notice in accordance with clause 5(a)(i);
 - (ii) the defect arises because the Customer failed to follow the Company's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the AstralPool/Fluidra Products or (if there are none) good trade practice;
 - (iii) the defect arises as a result of the Company following any drawing, design or specification supplied by the Customer;
 - (iv) the Customer alters or repairs such AstralPool/Fluidra Products without the written consent of the Company;
 - (v) the defect arises as a result of fair wear and tear, wilful damage, negligence, or abnormal working conditions;
 - (vi) the AstralPool/Fluidra Products differ from their description as a result of changes made to ensure they comply with applicable statutory or regulatory standards; or
 - (vii) the Goods in question are perishable Goods.
- (e) If the Goods upon examination are not found to be defective the Company's reasonable costs of the examination and all costs of carriage to and from the Company shall be borne by the Customer.
- (f) Except as provided in this clause 5, and /or unless the Customer is a consumer, the Company shall have no liability to the Customer in respect of the AstralPool/Fluidra Products' failure to comply with the warranty set out in clause 5.1.

5.2 Third Party Products

(a) Unless otherwise agreed in writing the Company gives no warranty or guarantee in relation to any Third Party Products contained in the Goods and the Customer shall rely only on any warranty or guarantee provided directly by the manufacturer of the Third Party Products.

5.3 Generally:

- (a) If the Customer is a business, except as provided in this clause 5, the Company shall have no liability to the Customer in respect of the Goods' failure to comply with the warranty set out in clause 5.1.
- (b) If the Customer is a consumer, the rights contained in this clause 5 are in addition to the Customer's legal rights in relation to the Goods that are faulty or not as described. Advice about the Customer's legal rights is available from their local Citizens' Advice Bureau or Trading Standards office. Nothing in these Conditions is intended to or will affect these legal rights.

6. GOODS RETURN / SERVICES CANCELLATION POLICY FOR BUSINESS CUSTOMERS

Once the Order has been accepted by the Company in accordance with Clause 2.2 Goods and Services cannot be cancelled or returned without the Company's written agreement.

- 6.1 Return of Goods. Subject to Clause 6 (above) Goods may be returned:
 - (a) (i) if the Goods were delivered incorrectly or not required and are returned in perfect condition including packaging, or
 - (ii) if the Goods are damaged and are returned in the same condition as delivered including packaging where applicable, or
 - (iii) if the Goods are faulty; and
 - (b) a goods return authorisation has been issued by the Company and
 - (c) the Goods are returned within two weeks of delivery. Goods returned outside this period will be subject to a re-stocking charge.
- 6.2 Goods held for more than two months may only be returned if faulty and under warranty.
- 6.3 Goods which are perishable, subject to batch control or are bespoke, personalised or special orders are excluded from this returns policy.
- **6.4** Services may not be cancelled once the Company has begun to supply the Service.
- 6.5 If the Company arranges collection of the Goods and the Goods cannot be collected, for whatever reason, the Customer will be liable for the collection cost.

7. CONSUMER RIGHT OF RETURN AND REFUND

This clause 7 applies if the Customer is a consumer.

7.1 CANCELLATION RIGHTS

If the Customer is a consumer, the Customer has a legal right to cancel a Contract under the Consumer Contracts (Information, Cancellation and Additional Charges) Regulations 2013 during the period set out in clause (d). This means that during the relevant period if the Customer changes its mind or decides for any other reason that it does not want to receive or keep the Goods, and/or receive the Services, except as provided in this clause 6, the Customer can notify the Company of its decision to cancel the Contract and receive a refund. Advice about the Customer's legal right to cancel the Contract is available from the Customer's local Citizens' Advice Bureau or Trading Standards office.

- 7.2 However, this cancellation right does not apply in the case of:any made to measure or custom made Goods and any Goods made to the Customer's specification or clearly personalised;
 - (a) any perishable Goods
 - (b) any Goods which have a security seal which the Customer has opened or unsealed;
 - (c) any Goods which become mixed inseparably with other items after their delivery; or
 - (d) the Company having begun to provide the Services.

7.3 CANCELLATION PERIOD

GOODS

(a) The Customer's legal right to cancel a Contract for Goods starts from the date on which the Company e-mails the Customer to confirm acceptance of its Order, which is when the Contract between the parties is formed. The Customer's deadline for cancelling the Contract is 14 days after the day on which it receives the Goods. If the Goods are delivered in instalments, the Customer's deadline for cancelling the Contract is 14 days after the day on which it receives the last instalment of the Goods or the last of the separate Goods ordered. For example, if the Company e-mails the Customer to confirm acceptance of its Order on 1 January and the Customer receives a single item on 10 January, the Customer may cancel at any time between 1 January and the end of the day on 24 January.



SERVICES

- (b) The Customer may cancel any order for Services at any time before the start date for the Services set out in the Order.
- (c) Once the Company has begun to provide the Services, the Customer may cancel a Contract for Services by providing the Company with at least 30 days' notice in writing.

7.4 EXERCISE OF RIGHT TO CANCEL

To cancel a Contract, the Customer just needs to let the Company know that it has decided to cancel. The easiest way to do this is to complete the cancellation form on the Company's website. If the Customer uses this method the Company will e-mail the Customer to confirm it has received the cancellation form.

The Customer can also e-mail the Company at sales@astralpooluk.com or contact the Customer Services team by telephone on 01329514000 or by post to AstralPool UK Ltd, Units 30-32 Palmerston Business Park, Newgate Lane, Fareham, Hants, P014 1DJ to cancel a Contract. If the Customer e-mails or writes to the Company please include details of the order to help identify it. If the Customer sends the cancellation notice by e-mail or by post, then its cancellation is effective from the date it sends the e-mail or posts the letter. For example, the Customer will have given the Company notice in time as long as it gets the letter into the post on the last day of the cancellation period or e-mails before midnight on that day.

7.5 REFUNDS

If the Customer cancels a Contract for Goods the Company will:

- (a) Refund the Customer the price it paid for the Goods. However, please note the Company is permitted by law to reduce its refund to reflect any reduction in the value of the goods, if this has been caused by the Customer handling them in a way which would not be permitted in a shop. If the Company refunds the Customer the price paid before it is able to inspect the Goods and later discovers that the Goods have been handled in an unacceptable way, the Customer must pay the Company an appropriate amount.
- (b) refund any delivery costs the Customer has paid, although, as permitted by law, the maximum refund will be the costs of delivery by the least expensive delivery method the Company offers (provided that this is a common and generally acceptable method). For example, if the Company offers delivery of Goods within 3-5 days at one cost but the Customer choose to have the Goods delivered within 24 hours at a higher cost, then the Company will only refund what the Customer would have paid for the cheaper delivery option.
- (c) make any refunds due to the Customer as soon as possible and in any event within the deadlines indicated below:
 - (i) if the Customer has received the Goods and the Company has not offered to collect the items: 14 days after the day on which the Company receives the Goods back from the Customer or, if earlier, the day on which the Customer provides the Company with evidence that it has sent the Goods back. For information about how to return Goods, see clause 6.9;
 - (ii) if the Customer has not received the Goods, or the Customer has received the Goods and the Company has offered to collect the items: 14 days after the Customer informs the Company of its decision to cancel the Contract.

7.6 SERVICES

If a Customer cancels a Contract for Services:

- (a) under clause 7.3 (b), and the Company has already started work on the Order by that time, the Customer will pay the Company any costs which the Company has reasonably incurred in starting to fulfil the Order, and this charge will be deducted from any refund that is due to the Customer or, if no refund is due, invoiced to the Customer. The Company will tell the Customer what these costs are when it is contacted by the Customer; or
- (b) under clause 7.3 (c), the Company will refund any advance payment made by the Customer for the Services that have not been provided.
- 7.7 If the Customer has returned the Goods to the Company under this clause 7 because they are faulty or mis-described, the Company will refund the price of the Goods in full, together with any applicable delivery charges, and any reasonable costs the Customer incurred in returning the items.

7.8 METHOD OF REFUND

The Company will refund the Customer on the credit card or debit card used by the Customer to pay.

7.9 OBLIGATION TO RETURN

If the Goods have been delivered to the Customer before it decides to cancel the Contract:

then the Customer must return the Goods to the Company without undue delay and in any event not later than 14 days after the day on which it let the Company know that it wishes to cancel the Contract. The Customer can either send the Goods back, or return the items to the Company's Premises. AstralPool UK, Units 30-32 Palmerston Business Park, Newgate Lane, Fareham, Hants, P014 1DJ. If the Company has offered to collect the Goods, the Company will collect the Goods from the address to which they were delivered. The Company will contact the Customer to arrange a suitable time for collection:

unless the Goods are faulty or not as described (in this case, see clause 0), the Customer will be responsible for the cost of returning the Goods. If the Goods cannot be returned by post, the Company estimates that if the Customer uses the carrier which delivered the Goods to it, these costs should not exceed the sums charged for delivery. If the Company has offered to collect the Goods, it will charge the Customer the direct cost to it of collection;

7.10 LEGAL RIGHTS IN RELATION TO FAULTY GOODS

Because the Customer is a consumer, the Company is under a legal duty to supply Goods that are in conformity with the Contract. As a consumer, the Customer has legal rights in relation to Goods that are faulty or not as described. These legal rights are not affected by the Customer's right of return and refund in this clause 7 or anything else in these Terms. Advice about the Customer's legal rights is available from the Customer's local Citizens' Advice Bureau or Trading Standards office.

8 TITLE AND RISK

- **8.1** The risk in the Goods shall pass to the Customer on completion of delivery.
- 8.2 Title to the Goods shall not pass to the Customer until the Company has received payment in full (in cash or cleared funds) for:
 - (a) the Goods; and
 - (b) any other goods that the Company has supplied to the Customer in respect of which payment has become due.
- 8.3 Until title to the Goods has passed to the Customer, the Customer shall:
 - (a) hold the Goods on a fiduciary basis as the Company's bailee;
 - (b) store the Goods separately from all other goods held by the Customer so that they remain readily identifiable as the Company's property;



- (c) maintain the Goods in satisfactory condition and keep them insured against all risks for their full price on the Company's behalf from the date of delivery;
- (d) notify the Company immediately if it becomes subject to any of the events listed in clause 7.6; and
- (e) give the Company such information relating to the Goods as the Company may require from time to time, but the Customer may resell or use the Goods in the ordinary course of its business.
- 8.4 The Customer shall not pledge or in any way charge by way of security for any indebtedness any Goods which remain the property of the Company, but if the Customer does so all monies owing by the Customer to the Company shall (without prejudice to any other rights or remedies of the Company) become immediately due and payable.
- 8.5 The Customer shall inform any sub-purchaser that the Goods are sold subject to a retention of title clause and they shall impose a clause in similar terms to the sub-purchaser providing the same rights as in this clause.
- 8.6 Before title to the Goods passes to the Customer and provided the Goods have not been resold, or irrevocably incorporated into another product, and without limiting any other right or remedy the Company may have, the Company may at any time require the Customer to deliver up the Goods and, if the Customer fails to do so promptly, enter any premises of the Customer or of any third party where the Goods are stored in order to recover them if:
 - (a) the Customer suspends, or threatens to suspend, payment of its debts or is unable to pay its debts as they fall due or admits inability to pay its debts or (being a company or limited liability partnership) is deemed unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986 or (being an individual) is deemed either unable to pay its debts or as having no reasonable prospect of so doing, in either case, within the meaning of section 268 of the Insolvency Act 1986 or (being a partnership) has any partner to whom any of the foregoing apply;
 - (b) the Customer commences negotiations with all or any class of its creditors with a view to rescheduling any of its debts, or makes a proposal for or enters into any compromise or arrangement with its creditors;
 - (c) a petition is filed, a notice is given, a resolution is passed, or an order is made, for or in connection with the winding up of that Customer (being a company);
 - (d) an application is made to court, or an order is made, for the appointment of an administrator, or if a notice of intention to appoint an administrator is given or if an administrator is appointed, over the Customer (being a company);
 - (e) the holder of a qualifying floating charge over the assets of the Customer (being a company) has become entitled to appoint or has appointed an administrative receiver;
 - (f) a person becomes entitled to appoint a receiver over the assets of the Customer or a receiver is appointed over the assets of the Customer;
 - (g) the Customer (being an individual) is the subject of a bankruptcy petition or order;
 - (h) a creditor or encumbrancer of the Customer attaches or takes possession of, or a distress, execution, sequestration or other such process is levied or enforced on or sued against, the whole or any part of the Customer's assets and such attachment or process is not discharged within 14 days;
 - (i) any event occurs, or proceeding is taken, with respect to the Customer in any jurisdiction to which it is subject that has an effect equivalent or similar to any of the events mentioned in clause 8.6(a) to clause 8.6(h) (inclusive);
 - (j) the Customer suspends or ceases, or threatens to suspend or cease, carrying on all or a substantial part of its business.

9. SERVICES - INSTALLATION, APPLICATION, REPAIR AND MAINTENANCE

- 9.1 The Company warrants that it will use reasonable care in performing the Services.
- 9.2 If any part of the Services is performed negligently or in breach of the provisions of the Contract or these Conditions then, at the request of the Customer (if the request is given within six months of the provision of the Services), the Company will re-perform the relevant part of the Services, always subject to clause 9.4 and clause 15 below.
- 9.3 The Company shall have the right to make any changes to the Services which are necessary to comply with any applicable law or safety requirement, or which do not materially affect the nature or quality of the Services, and the Company shall notify the Customer in any such event.
- 9.4 Any performance dates for the Services set out in the Order or otherwise agreed between the parties, shall be estimates only and time shall not be of the essence for the performance of the Services.
- 9.5 The Customer shall be responsible for ensuring adequate access to the installation site to enable installation to take place. The Customer shall ensure that the site is ready in all respects for the installation, and has available all appropriate facilities and utilities. Where a specific completion date is required by the Customer, the Company may require access to the site outside normalworking hours in which case the Company shall not be liable for any additional cost incurred by the Customer or any third parties.
- 9.6 The Company reserves the right to charge an additional fee to cover costs incurred if the Customer delays installation by more than one month after the date of installation requested by the Customer in the Order.

10. CUSTOMER'S OBLIGATIONS

- 10.1 The Customer shall:
 - (a) ensure that the Order is complete and accurate;
 - (b) co-operate with the Company in all matters relating to the Services;
 - (c) provide the Company, its employees, agents, consultants and subcontractors, with access to the Customer's premises, office accommodation and other facilities as reasonably required by the Company to provide the Services;
 - (d) provide the Company with such information and materials as the Company may reasonably require to supply the Services, and ensure that such information is accurate in all material respects;
 - (e) prepare the premises, where the Goods are to be installed, for the supply of the Services;
 - (f) obtain and maintain all necessary licences, permissions and consents which may be required for the Services before the date on which the Services are to start;
 - (g) keep and maintain all materials, equipment, documents and other property of the Company (Company Materials) at the Customer's premises in safe custody at its own risk, maintain the Company Materials in good condition until returned to the Company, and not dispose of or use the Company Materials other than in accordance with the Company's written instructions or authorisation; and
 - (h) attend the premises where the Services are to be carried out when required by the Company.
- 10.2 If the Company's performance of any of its obligations in respect of the Services is prevented or delayed by any act or omission by the Customer or failure by the Customer to perform any relevant obligation (Customer Default):



- (a) the Company shall without limiting its other rights or remedies have the right to suspend performance of the Services until the Customer remedies the Customer Default, and to rely on the Customer Default to relieve it from the performance of any of its obligations to the extent the Customer Default prevents or delays the Company's performance of any of its obligations;
- (b) the Company shall not be liable for any costs or losses sustained or incurred by the Customer arising directly or indirectly from the Company's failure or delay to perform any of its obligations as set out in this clause 10.2; and
- (c) the Customer shall reimburse the Company on written demand for any costs or losses sustained or incurred by the Company arising directly or indirectly from the Customer Default.

11. CHARGES AND PAYMENT

GOODS

- 11.1 The price for Goods shall be the price set out in the Order or, if no price is quoted, the price set out in the Company's published price list as at the date of delivery. The price of the Goods is exclusive of all costs and charges of packaging, insurance, transport of the Goods and any credit or debit card charges levied by the issuer of the credit or debit card used to pay for the goods, which costs and charges shall be paid by the Customer when it pays for the Goods.
- 11.2 Subject to any special terms agreed in writing between the Company and the Customer, payment for the Goods shall be made in clear and full funds prior to delivery of the Goods, and delivery shall not be made until payment has been received in full by the Company.

SERVICES

- 11.3 The charges for Services shall be on a time and materials basis:
 - (a) the charges shall be calculated in accordance with the Company's hourly fee rates available on request;
 - (b) the Company's standard hourly fee rates for each individual person are calculated on the basis of an eight-hour day from 8.00 am to 5.00 pm worked on Business Days:
 - (c) the Company shall be entitled to charge an overtime rate of 150 per cent of the standard hourly fee rate for any time worked by individuals whom it engages on the Services on a Business Day but outside the hours referred to in clause 113(b); and double the standard hourly fee rate on any day that is not a Business Day; and
 - (d) the Company shall be entitled to charge the Customer for any expenses reasonably incurred by the individuals whom the Company engages in connection with the Services including, but not limited to, travelling expenses, hotel costs, subsistence and any associated expenses, and for the cost of services provided by third parties and required by the Company for the performance of the Services, and for the cost of any materials.
- 11.4 The Company reserves the right to
 - (a) increase the price of the Goods and /or Services, by giving notice to the Customer at any time before delivery and/or installation, to reflect any increase in the cost of the Goods to the Company that is due to:
 - (i) any factor beyond the reasonable control of the Company (including foreign exchange fluctuations, increases in taxes and duties, and increases in labour, materials and other manufacturing costs);
 - (ii) any request by the Customer to change the delivery date(s), quantities or types of Goods ordered, or the Goods Specification; or
 - (iii) any delay caused by any instructions of the Customer in respect of the Goods or failure of the Customer to give the Company adequate or accurate information or instructions in respect of the Goods.

GENERAL

- 11.5 Prices quoted are exclusive of VAT which is chargeable at the current rate and the Customer shall additionally be liable to pay to the Company such additional amounts in respect of VAT as are chargeable on the supply of the Services or Goods at the same time as payment is due for the supply of the Services or Goods.
- 11.6 Any grant of credit must be agreed in advance in writing by an authorised representative of the Company. Full payment is then due by the due date.
- 11.7 The Company has the right to withdraw credit at any time by giving written notice to the Customer in which case all amounts due to the Company from the Customer shall become immediately due and payable.
- 11.8 The Company shall invoice the Customer for the Goods and/or Services. The Customer shall pay each invoice submitted by the Company in full and in cleared funds to a bank account nominated in writing by the Company in accordance with any agreed credit terms. Time for payment shall be the essence of the Contract.
- 11.9 Without limiting any other right or remedy of the Company, if the Customer fails to make any payment due to the Company under the Contract by the due date, the Company shall have the right to charge interest on the overdue amount at the rate of 4 per cent per annum above the then current National Westminster Bank's base rate accruing on a daily basis from the due date until the date of actual payment of the overdue amount, whether before or after judgment.
- 11.10 The Customer shall pay all amounts due under the contract in full without any deduction or withholding except as required by law and the Customer shall not be entitled to assert any credit, set-off or counterclaim against the Company in order to justify withholding payment of any such amount in whole or in part. The Company may, without limiting its other rights or remedies, set off any amount owing to it by the Customer against any amount payable by the Company to the Customer.

12. INTELLECTUAL PROPERTY RIGHTS

- 12.1 All Intellectual Property Rights in or arising out of or in connection with the Services shall be owned by the Company.
- 12.2 The Customer acknowledges that, in respect of any third party Intellectual Property Rights, the Customer's use of any such Intellectual Property Rights is conditional on the Company obtaining a written licence from the relevant licensor on such terms as will entitle the Company to license such rights to the Customer.

13. CONFIDENTIALITY

- 13.1 Each party undertakes that it shall not at any time disclose to any person any technical or commercial know-how, specifications, inventions, processes or initiatives which are of a confidential nature or any confidential information concerning the business, affairs, customers, clients or suppliers of the other party (Confidential Information), except that each party may disclose the other party's Confidential Information:
 - (a) to its employees, officers, representatives or advisers who need to know such information for the purposes of carrying out the party's obligations under this Contract. Each party shall ensure that its employees, officers, representatives or advisers to whom it discloses the other party's confidential information comply with this clause 13.1; and



- (b) as may be required by law, court order or any governmental or regulatory authority.
- 13.2 All Company Materials are the exclusive property of the Company.
- 13.3 No party shall use any other party's Confidential Information for any purpose other than to perform its obligations under this Contract.
- 13.4 This clause 13 shall survive termination of the Contract.

14. DATA PROTECTION

The Company processes personal data in accordance with the applicable personal data laws, the terms of its privacy policy and, where applicable, the consents it has received from each personal data owner. The Company's privacy policy, which is available on its website, outlines how, and the purposes for which, the Company manages, collects, uses and transfers personal data.

The customer shall process personal data received from the Company in accordance with the personal data laws and shall process such personal data for the purpose provided, implement the technical and organisational security measures required to safeguard the personal information, and retain the data for no longer than necessary for the purpose.

15. LIMITATION OF LIABILITY IF THE CUSTOMER IS A BUSINESS

This clause 15 only applies if the Customer is a business.

- 15.1 Nothing in these Conditions shall limit or exclude the Company's liability for:
 - (a) death or personal injury caused by its negligence, or the negligence of its employees, agents or subcontractors;
 - (b) fraud or fraudulent misrepresentation;
 - (c) breach of the terms implied by section 2 of the Supply of Goods and Services Act 1982 (title and quiet possession);
 - (d) breach of the terms implied by section 12 of the Sale of Goods Act 1979 (title and quiet possession); or
 - (e) defective products under the Consumer Protection Act 1987.
- 15.2 Subject to clause 15.1 the Company shall under no circumstances whatsoever be liable to the Customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, loss of business opportunity, loss of goodwill or any indirect or consequential loss arising under or in connection with the Contract; and
- 15.3 Subject to clause 15.1 the Company's total liability to the Customer in respect of all losses arising under or in connection with the Contract, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed the price recovered for the Goods and/or Services. The Company's liability under this clause 12.3 shall end 1 year from the completion of any Services or such earlier time as English law dictates.
- 15.4 Except as set out in these Conditions, all warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.
- 15.5 This clause 15 shall survive termination of the Contract.

16. LIMITATION OF LIABILITY IF THE CUSTOMER IS A CONSUMER

This clause 16 only applies if the Customer is a consumer.

- 16.1 Nothing in these Conditions shall limit or exclude the Company's liability for:
 - (a) death or personal injury caused by its negligence, or the negligence of its employees, agents or subcontractors;
 - (b) fraud or fraudulent misrepresentation;
 - (c) breach of the terms implied by section 2 of the Supply of Goods and Services Act 1982 (title and quiet possession);
 - (d) breach of the terms implied by section 12 of the Sale of Goods Act 1979 (title and quiet possession);
 - (e) breach of the terms implied by section 13 to 15 of the Sale of Goods Act 1979 (description, satisfactory quality, fitness for purpose and samples) and sections 3, 4 and 5 of the Supply of Goods and Services Act 1982 (description, satisfactory quality, fitness for purpose and samples); or
 - (f) defective products under the Consumer Protection Act 1987.
- 16.2 If the Company fails to comply with these Conditions, the Company is responsible for loss or damage the Customer suffers that is a foreseeable result of the Company's breach of the Conditions. Loss or damage is foreseeable if they are an obvious consequence of the Company's breach or if they are contemplated by the Customer and the Company at the time the Company entered into the Contract.
- 16.3 If the Company is installing the Goods and/or providing Services at a property, the Company will make good any damage to the property caused by the Company in the course of installation or performance. However the Company is not responsible for the cost of repairing any pre-existing faults or damage to the property that the Company discovers in the course of installation and/or performance of the Services.
- 16.4 The Company only supplies the Goods and/or Services to the Customer for domestic and private use. The Customer agrees not to use the Goods and/or Services for any commercial, business or re-sale purpose, and the Company shall have no liability to the Customer for any loss of profit, loss of business, business interruption, or loss of business opportunity.

17. TERMINATION AND SUSPENSION

- 17.1 Without limiting its other rights or remedies, the Company shall have the right to suspend the supply of Services or all further deliveries of Goods under the Contract or to terminate the Contract or any other contract between the Customer and the Company if:
 - (a) the Customer fails to make pay any amount due under this Contract on the due date for payment; or
 - (b) the Customer becomes subject to any of the events listed in clause 8.6, or the Company reasonably believes that the Customer is about to become subject to any of them.



18. CONSEQUENCES OF TERMINATION

On termination of the Contract for any reason:

- (a) the Customer shall immediately pay to the Company all of the Company's outstanding unpaid invoices and interest and, in respect of Goods and Services supplied but for which no invoice has yet been submitted, the Company shall submit an invoice, which shall be payable by the Customer immediately on receipt.
- (b) the Customer shall return all of the Company Materials and any Goods which have not been fully paid for. If the Customer fails to do so, then the Company may enter the Customer's premises and take possession of them. Until they have been returned, the Customer shall be solely responsible for their safe keeping and will not use them for any purpose not connected with this Contract;
- (c) the accrued rights and remedies of the parties as at termination shall not be affected, including the right to claim damages in respect of any breach of the Contract which existed at or before the date of termination or expiry; and
- (d) clauses which expressly or by implication have effect after termination shall continue in full force and effect.

19. GENERAL

- (a) The Company reserves the right to change, suspend or withdraw any part of the Website. Access to the Website may be denied at the sole discretion of the Company to any Customer who breaches these Conditions.
- (b) The Website and its contents are provided to the Customer on an "as is" and "as available" basis. The Company does not make and expressly disclaims to the fullest extent permitted by law any and all representations or warranties of any kind with respect to the Website and its contents including without limitation its completeness, accuracy, fitness or suitability for any purpose or freedom from viruses.
- (c) The Company, its directors, employees and other agents shall not be liable for damages of any kind including without limitation, direct, indirect, special or consequential damages, loss of income or profits, loss of or corruption of data, loss of or damage to property or claims of third parties, arising out of or in connection with the Customer's use of its Website.
- (d) The Customers attention is drawn to the General Conditions of Access and Use found on the Website and governing the access and use thereof.

19.1 Assignment and subcontracting

- (a) The Company may at any time assign, transfer, charge, subcontract or deal in any other manner with all or any of its rights under the Contract and may subcontract or delegate in any manner any or all of its obligations under the Contract to any third party.
- (b) The Customer shall not, without the prior written consent of the Company, assign, transfer, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract.

19.2 Communications:

If the Customer is a consumer:

- (i) the Customer may contact the Company for any reason, including because the Customer has any complaints, by telephoning the Customer Services team on 01329514000 or by emailing the Company at sales@astralpooluk.com; and
- (ii) if the Company has to contact the Customer to give it notice in writing, the Company will do so by e-mail or by pre-paid post to the address provided in the Order.

If the Customer is a business:

- (i) the Customer may contact the Company by telephoning the Customer Services team on 01329514000 or by emailing the Company at sales@astral-pooluk.com
- (ii) if either party wishes to give formal notice of any matter in under or in connection with this Contract to the other party, it shall be in writing and shall be delivered to the other party personally or sent by prepaid first-class post, recorded delivery or by commercial courier, at its registered office (if a company) or (in any other case) its principal place of business, or sent by fax to the other party's main fax number.
- (iii) any formal notice under clause 20.3 (b) (ii) shall be deemed to have been duly received if delivered personally, when left at such address or, if sent by prepaid first-class post or recorded delivery, at 9.00 am on the second Business Day after posting, or if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed, or if sent by fax, on the next Business Day after transmission.

19.3 Waiver and cumulative remedies:

- (a) A waiver of any right under the Contract is only effective if it is in writing and shall not be deemed to be a waiver of any subsequent breach or default. No failure or delay by a party in exercising any right or remedy under the Contract or by law shall constitute a waiver of that or any other right or remedy, nor preclude or restrict its further exercise. No single or partial exercise of such right or remedy shall preclude or restrict the further exercise of that or any other right or remedy.
- (b) Unless specifically provided otherwise, rights arising under the Contract are cumulative and do not exclude rights provided by law.

19.4 Severance:

- (a) If a court or any other competent authority finds that any provision of the Contract (or part of any provision) is invalid, illegal or unenforceable, that provision or part-provision shall, to the extent required, be deemed deleted, and the validity and enforceability of the other provisions of the Contract shall not be affected.
- (b) If any invalid, unenforceable or illegal provision of the Contract would be valid, enforceable and legal if some part of it were deleted, the provision shall apply with the minimum modification necessary to make it legal, valid and enforceable.
- 19.5 Third Parties: A person who is not a party to the Contract shall not have any rights under or in connection with it.
- 19.6 Variation: Except as set out in these Conditions, any variation, including the introduction of any additional terms and conditions, to the Contract shall only be binding when agreed in writing and signed by the Company.
- 19.7 No partnership: Nothing in the Contract is intended to, or shall be deemed to, establish any partnership or joint venture between the parties, constitute any party the agent of the other party, or authorise any party to make or enter into any commitments for or on behalf of the other party.
- 19.8 Governing law and jurisdiction: This Contract, and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims), shall be governed by, and construed in accordance with, English law, and the parties irrevocably submit to the exclusive jurisdiction of the courts of England and Wales.



Manufacturers of high quality advanced swimming pool climate control systems



'BLUE-EC' ON-DEMAND FAN TECHNOLOGY

'CROSS FLOW' PLATE RECUPERATOR

DEHUMIDIFICATION HEATPUMP

Heat pumps / Climate control / Dehumidifiers

Contact **Heatstar** today for more information on the full range of highly energy efficient climate control systems



