



# FOUNTAIN TECHNOLOGY & LAKE MANAGEMENT

CATALOGUE FOR DEALERS AND DISTRIBUTORS



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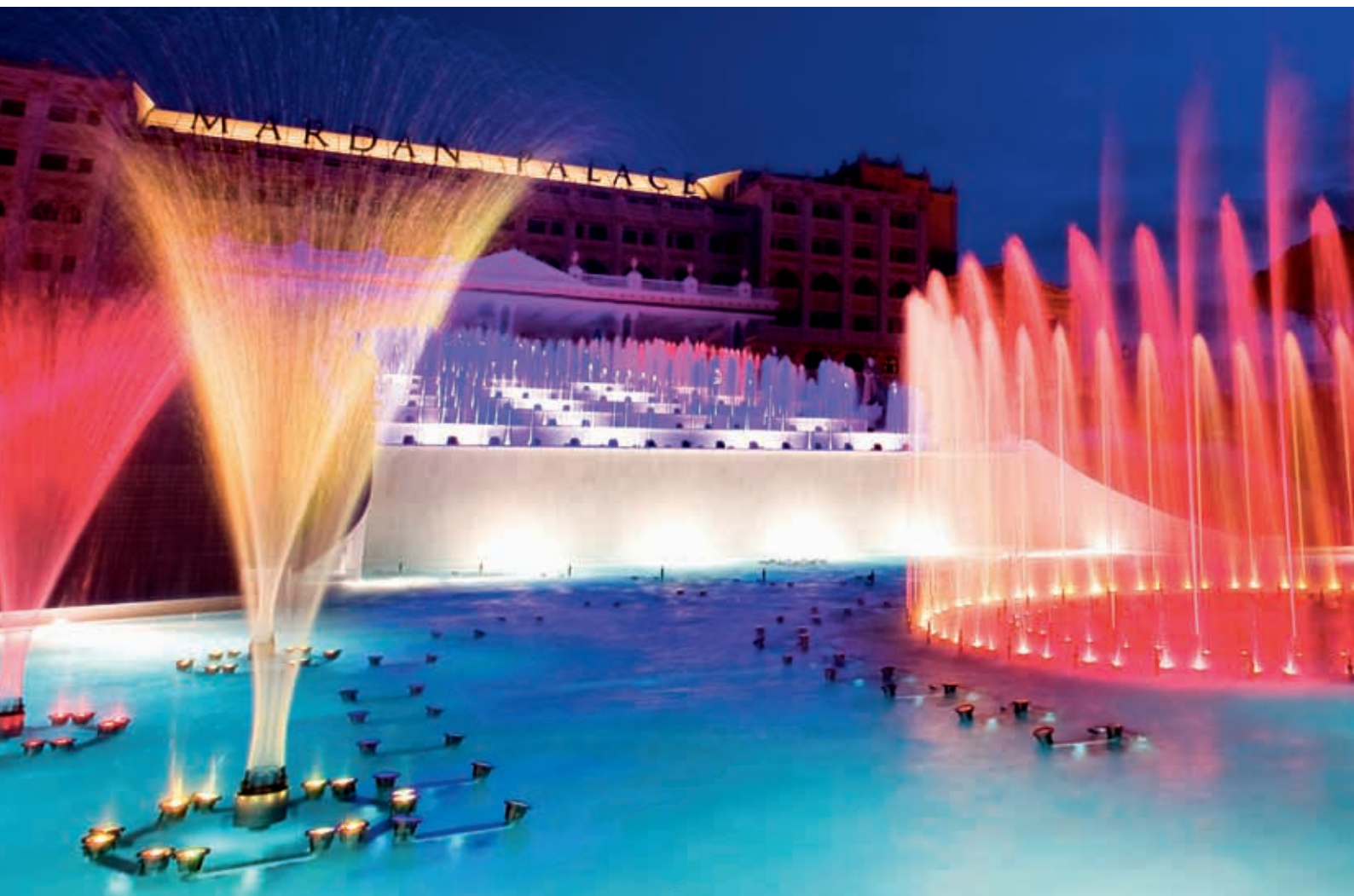
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#### »MARDAN PALACE HOTEL«

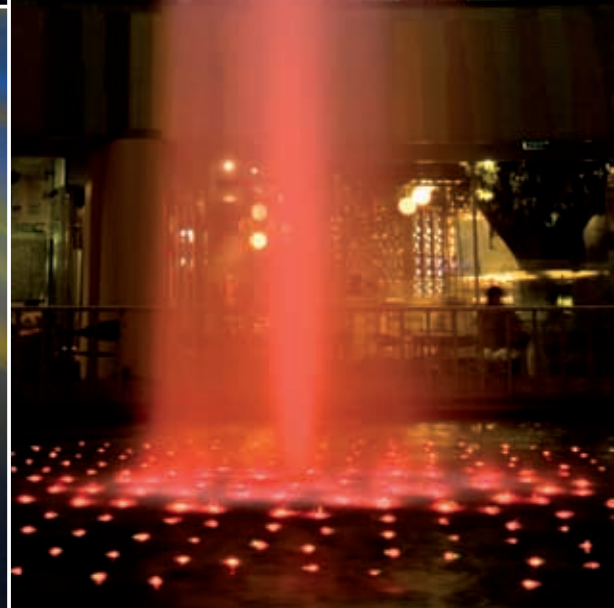
LOCATION: ANTALYA, TURKEY

Reminding of Arabian Nights, the site of Mardan Palace Hotel in Antalya, Turkey is one of the most exclusive Hotels in the Mediterranean. The installation combines water with laser and LED light and impresses by underlining the unique terrace architecture. *OASE reference object*









### »BANPO BRIDGE«

LOCATION: SEOUL, SOUTH KOREA

380 proportional pivot valves transform the »Banpo Bridge« in Seoul, South Korea, into a waterfall on both sides - it is unique in the world - and at 1.4 km it is the longest waterfall bridge in the world. 60 tons of illuminated water per minute plunge into the Han River and offer impressive staging for the bridge. *OASE reference object, 2 photos left*



**MULTIMEDIA WATER ORGAN, LOCATION: ST. PETERSBURG, RUSSIA**

Built on the Newa, the largest musical floating fountain in the world with a laser system for projection onto a 430 m water screen. *OASE reference object, 1. photo on the top*



**»AQUA CITY PARK« LOCATION: NANJING, CHINA**

Many small and large water installations form the Aqua City Park Shopping Mall in Nanjing, China and allow the building to become a world of water experience inside and out: Waterfalls frame the building from the outside; in front of the entry a pool with a matrix of 164 Neptun 3000 pumps, fitted with Komet 5-10 nozzles, as well as an 8 m high Center Jet welcome visitors. The special attraction: The matrix represents characters and letters - for a »very special welcome« for visitors. A Flash Wall with solenoid valves even makes it possible to write letters that fall. New multi-directional nozzles arranged as 3x3 clusters are fitted with fan nozzles and thus wonderfully impart the impression of opening blossoms. Jumping Jets, Vertical Jets with variable switches and Varionaut 2, as well as three Center High Jets Indoor, each with a height of 25 m, round out the impressive work of art. *OASE reference object, 3 photos below*





### »MUSIC WATER ORGAN« FURNITURE SHOP NEUBERT

LOCATION: WÜRZBURG, GERMANY

Built in 2008, this water musical fountain impresses visitors to Möbelhaus Neubert in Würzburg, Germany with a matrix of 48 individually controllable, illuminated Nozzle Star units, each operated by a Varionaut 2. Multiple, concentric fountain rings with a height of up to 6 m ensure a festive atmosphere. Sixteen Jumping Jet Rainbow Stars and nine Cascade nozzles as well as multiple Komet strand systems illuminated with Twin Star spotlights complete the picture. *OASE reference object, 3 photos top*



# **HIGH FOUNTAIN, LOCATION: JUFFAIR, BAHRAIN**

At 141 metres this fountain, adjacent to the new library and the Great Mosque in Juffair, is believed to be the highest sea water floating jet fountain in the world. *OASE reference object, Photo top left*



## **WATER ORGAN »MONAS«**

**LOCATION: JAKARTA, INDONESIA**

The water musical fountain combines water effects with the historical architecture and fascinating landscape of Indonesia.

*OASE reference object, Photo center left*

## **»HOTEL INDONESIA«**

**LOCATION: JAKARTA, INDONESIA**

The fountain with pulsing water columns is in the centre of the roundabout next to the Hotel Indonesia in Jakarta, the capital of Indonesia.

*OASE reference object, Photo bottom left*

## **DESIGNER FOUNTAIN SWAROVSKI**

**LOCATION: WATTENS, AUSTRIA**

For the 100th anniversary of the company André Heller and his team designed the Swarovski Crystal Worlds in Wattens near Innsbruck.

*OASE reference object, Photo top right*

## **SONY CENTER**

**LOCATION: BERLIN, GERMANY**

Modern basin design with stainless steel edge, and glass/marble floor characterises this fountain located on Potsdamer Platz in Berlin.

*OASE reference object, Photo bottom right*



# SYSTEMATIC SUCCESS

WHEN DESIGNING WITH WATER CREATIVITY AND FANTASY TAKE TOP PRIORITY.  
IMPLEMENTATION PRIMARILY DEPENDS ON PROPER PLANNING AND INSTALLATION.

## MARYNARSKA BUSINESS PARK

**Location:** Warsaw, Poland  
Modern LED technology of the Jumping Jets combined with proven halogen lighting ensures an impressive water installation in Warsaw 24 JJ Rainbow Stars, 12 x Komet 10-14 with Profilux E101 halogen spotlights, as well as an HS 70 Hollow Jet nozzle, also illuminated by the Profilux E101.

*OASE reference objects, bottom*

**We support you in drawing up the plans and in putting the necessary components together – to ensure that your project will be a total success.**

Creativity is the main component for conception of a water installation, the right feel for spatial dimensions, and harmony of the elements, water, earth, and air. On the other hand, the detailed planning involves technology and precision, exact calculations and precisely matched components; in this regard the following statement is true:

He who masters the technique, gains the freedom to create.

The **space-saving, energy-efficient products** from OASE make it particularly easy for you to realise your design ideas.

The international OASE team is pleased to support you in all questions concerning conception, technical planning, professional installation to maintenance.

Contact us!





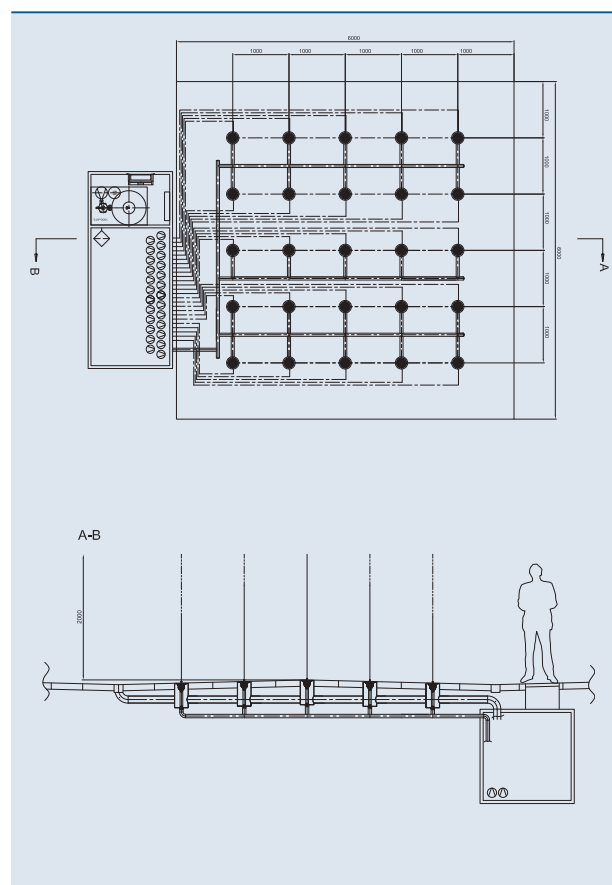


## SYSTEM 1 – »MATRIX 25«

**Fun for everyone: Five times five pumps, each with Komet nozzles and LED spotlights can be individually controlled via DMX technology and ensure a firsthand water experience.** The Nozzle Chambers make an invisible and easy installation possible. Such a matrix can generate different water compositions such as a pyramid or a suspended carpet in a wide variety of colours.

The following OASE products are used amongst others:

- **Varionaut 2** (p. 126)
- **BEST LED** (p. 88)
- **Comet Long** (p. 94)
- **Nozzle Chamber Single** (p. 130)
- **Easy Control** (p. 160)





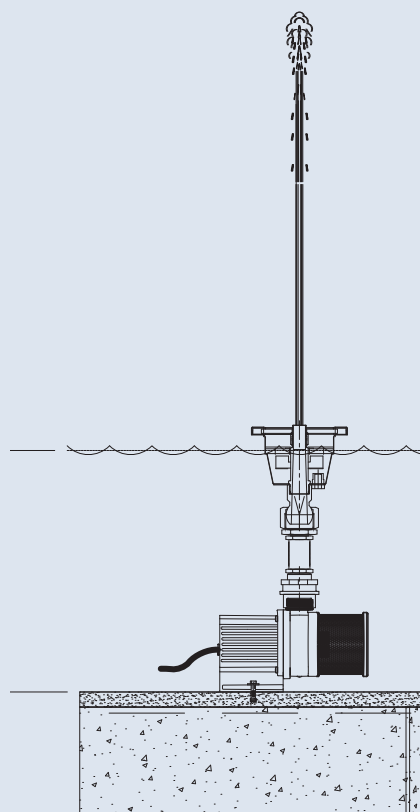
## SYSTEM 2 – »LINE 5«

### **A lively water feature that makes an impression:**

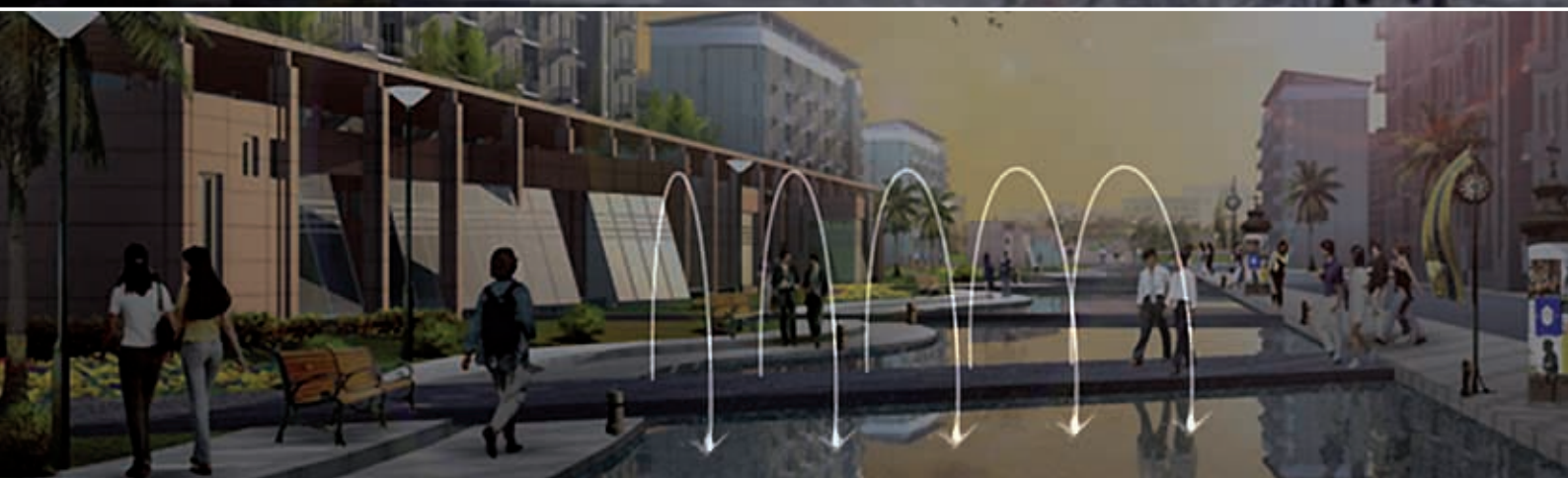
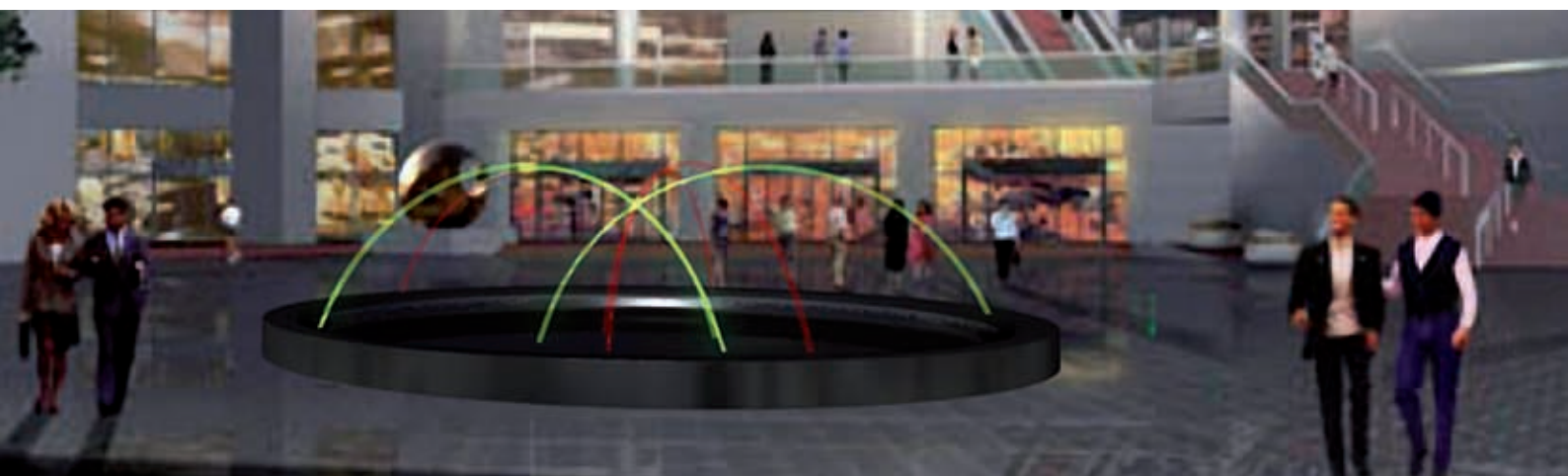
Here, five Nozzle Stars LED generate a sinus wave, illuminated in the colours of the rainbow. The whole is powered by the Varionaut 1, which, in this case as 24V submersible motor pump, can be housed directly in the pool – in conformance with the erector specification DIN VDE 0100 Part 702.

### **The following OASE products are used amongst others:**

- **Varionaut 1** (p. 124)
- **Nozzle Star LED** (p. 90)
- **Easy Control** (p. 160)





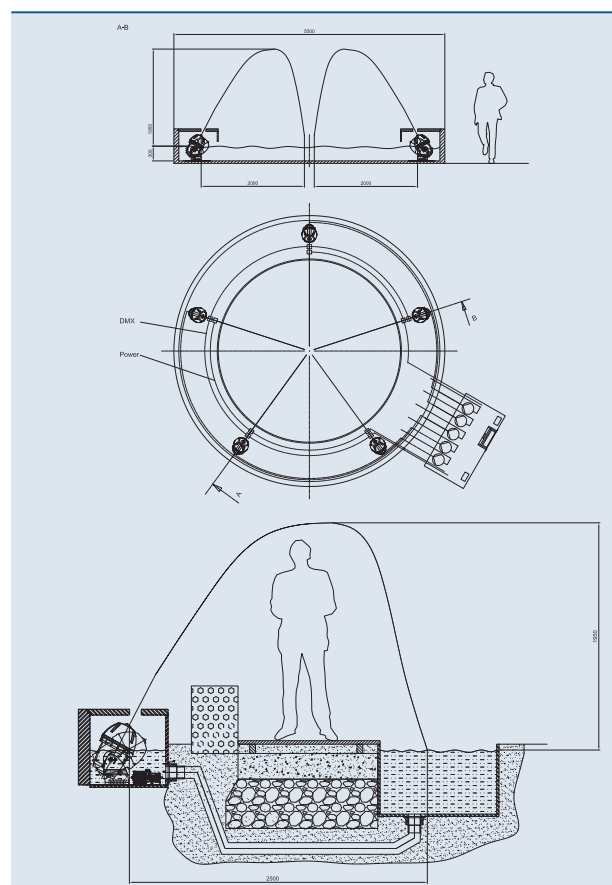


## SYSTEM 3 – »JJ-RAINBOW STAR 5«

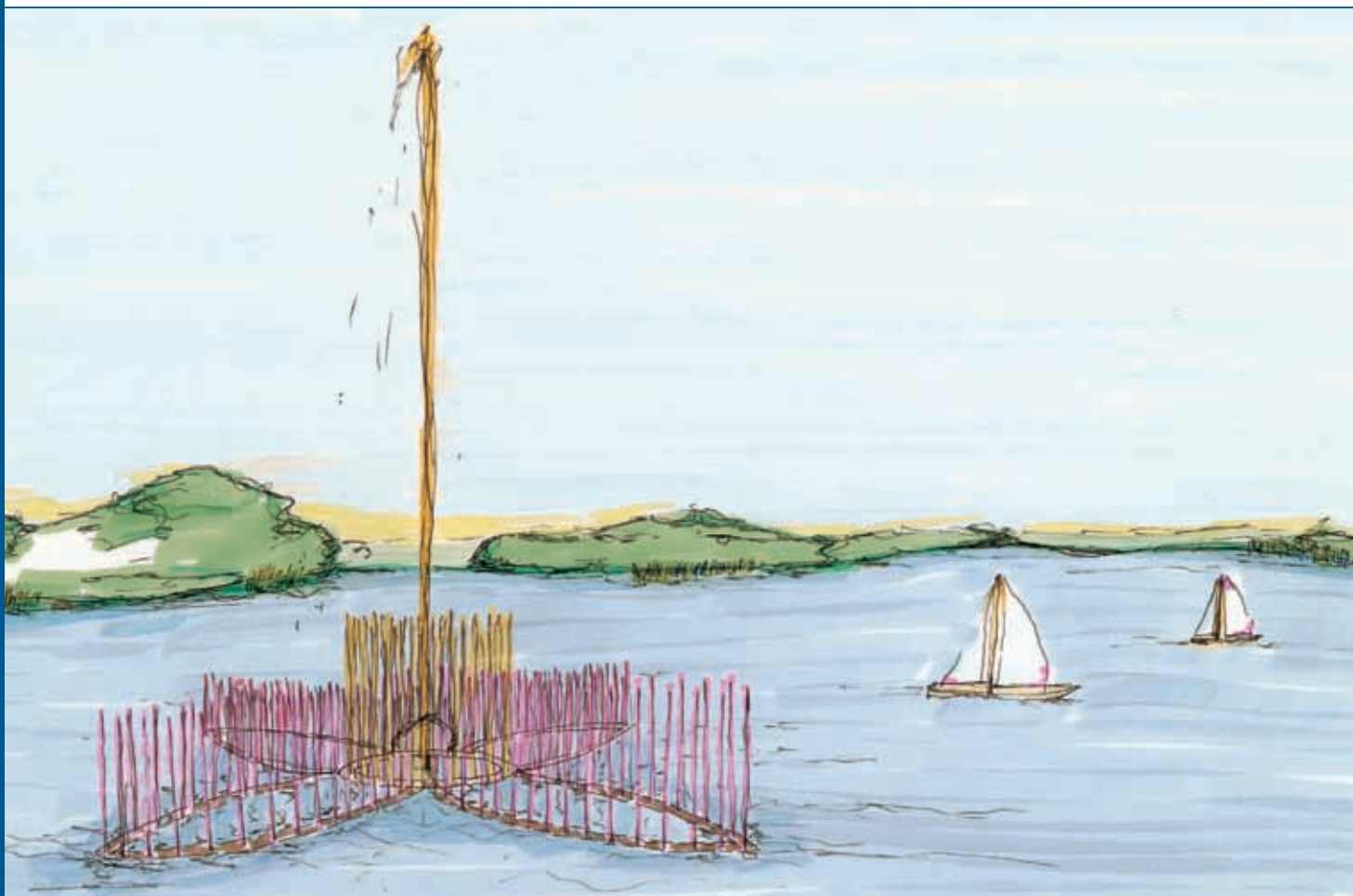
**Impressive framing with many application possibilities:** Whether as water tunnel or compact pool installation – the Jumping Jets with LED lighting in rainbow colours always ensure surprising accents.

**The following OASE products are used amongst others:**

- Jumping Jet Rainbow Flash (p. 20)
- Jumping Jet Rainbow Star (p. 22)







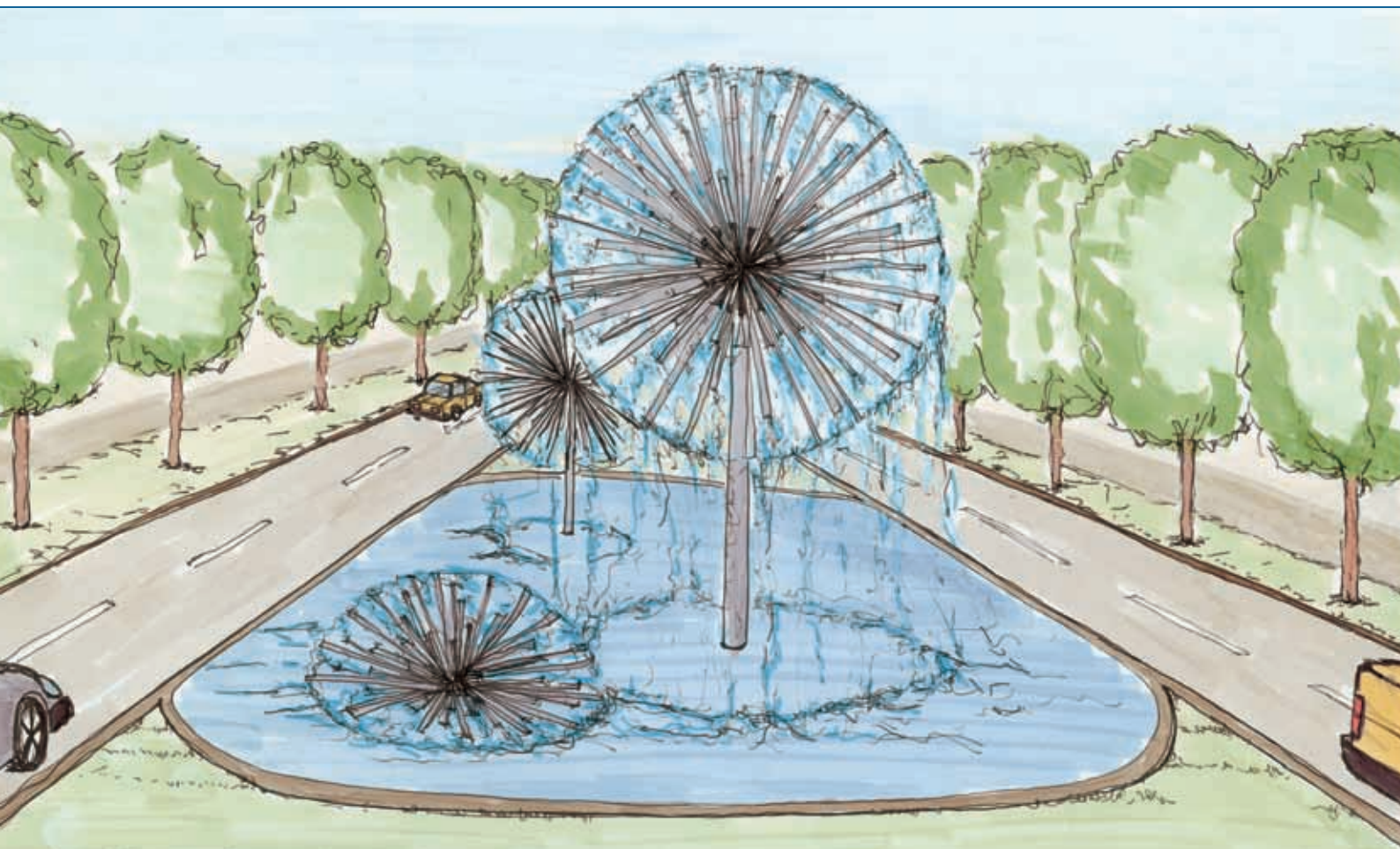
## SYSTEM 4 – »FLEXY FLOWER«

**Creativity without limits:** With our Flexy Jets and in combination with the new Midi or Maxi floating fountains many design ideas can be realised – for maximum freedom of design.

**The following OASE products are used amongst others:**

- Flexy Jet (p. 64)
- Midi II (p. 66)
- Maxi II (p. 66)
- Varionaut-Pumps (p. 124)
- Nozzle Star LED (p. 90)





## SYSTEM 5 – » WATER SPHERES «

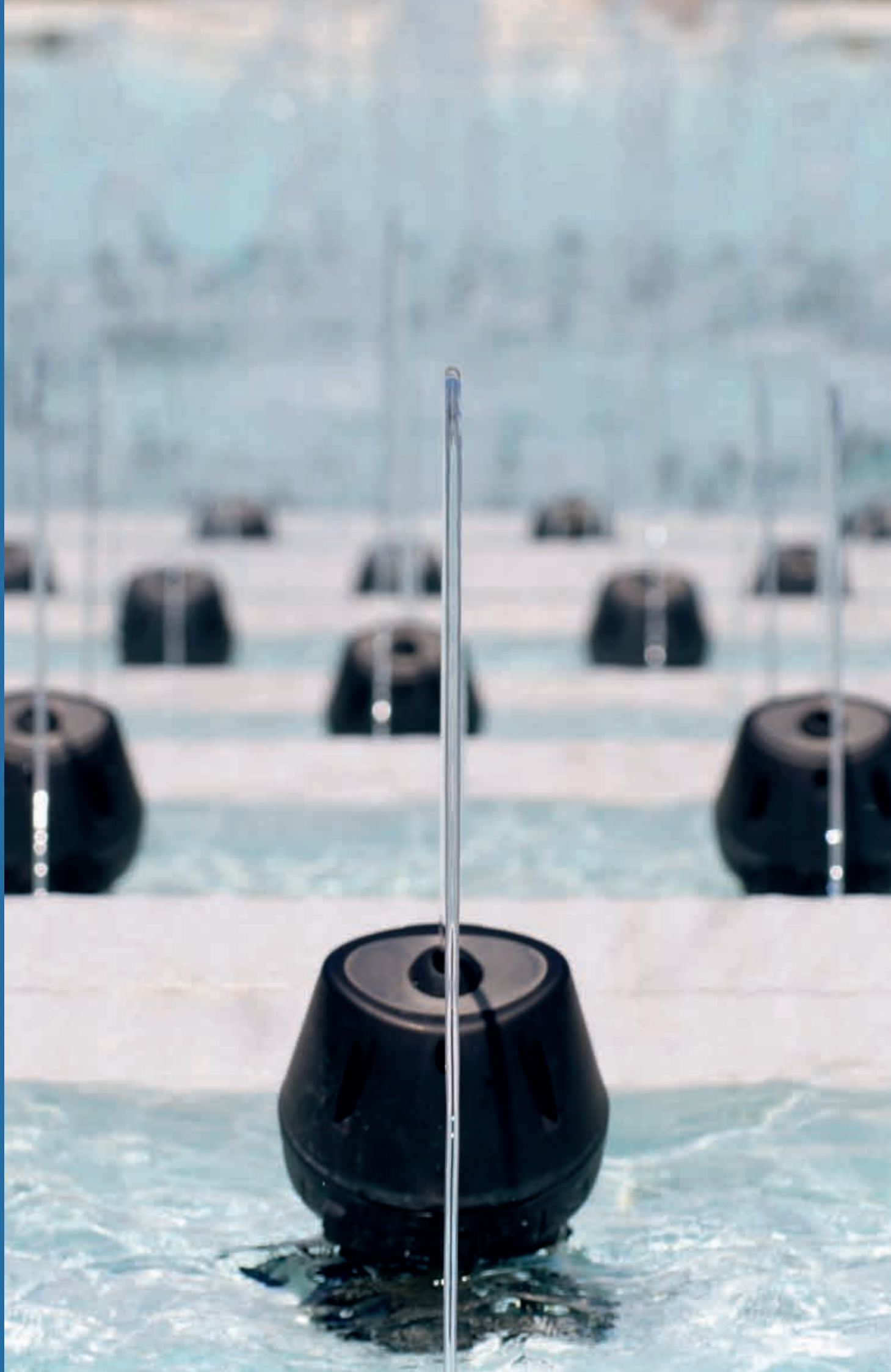
**A very special highlight for all waters:** In whole or half versions our water spheres offer the effect of a sculpture that is integrated in nature. They ensure mood-setting accents particularly when illuminated.

**The following OASE products are used amongst others:**

- Water spheres (p. 97)
- Twin Star LED (p. 91)
- Halogen illumination (p. 70)









# MORE THAN THE SUM OF ITS PARTS

WATER DANCES THROUGH THE AIR WITH APPARENT WEIGHTLESSNESS, FORMS WONDERFUL SHAPES, AND BRINGS ALL UNDER ITS MAGICAL SPELL. PUT INTO EFFECT WITH THE HELP OF OASE TECHNIQUE.

## MARDAN PALACE HOTEL

**Location: Antalya, Turkey**

Reminding of Arabian Nights, the site of Mardan Palace Hotel in Antalya, Turkey is one of the most exclusive Hotels in the Mediterranean. The installation combines water with laser and LED light and impresses by underlining the unique terrace architecture.

*OASE reference object, left*

It would be difficult to find a person who can resist the sight of wonderful water features. But, who is the artist? Is it the water that always invents new shapes, shows just how inadequate the observers' expectations are, and minute by minute invents a new figure? Is it the builder, architect, or artist who will enliven a plaza, who offers people a place to tarry, and who desires to offer the soul a few moments of infinity when viewing a water feature? Or is it the technician who works away, tries out, and tricks to exploit all the possibilities offered by this fascinating material?

OASE's achievement is bringing all water artists together with their extraordinary capabilities. The result are systems and entire projects – both are top draws on events and special highlights in very special surroundings:

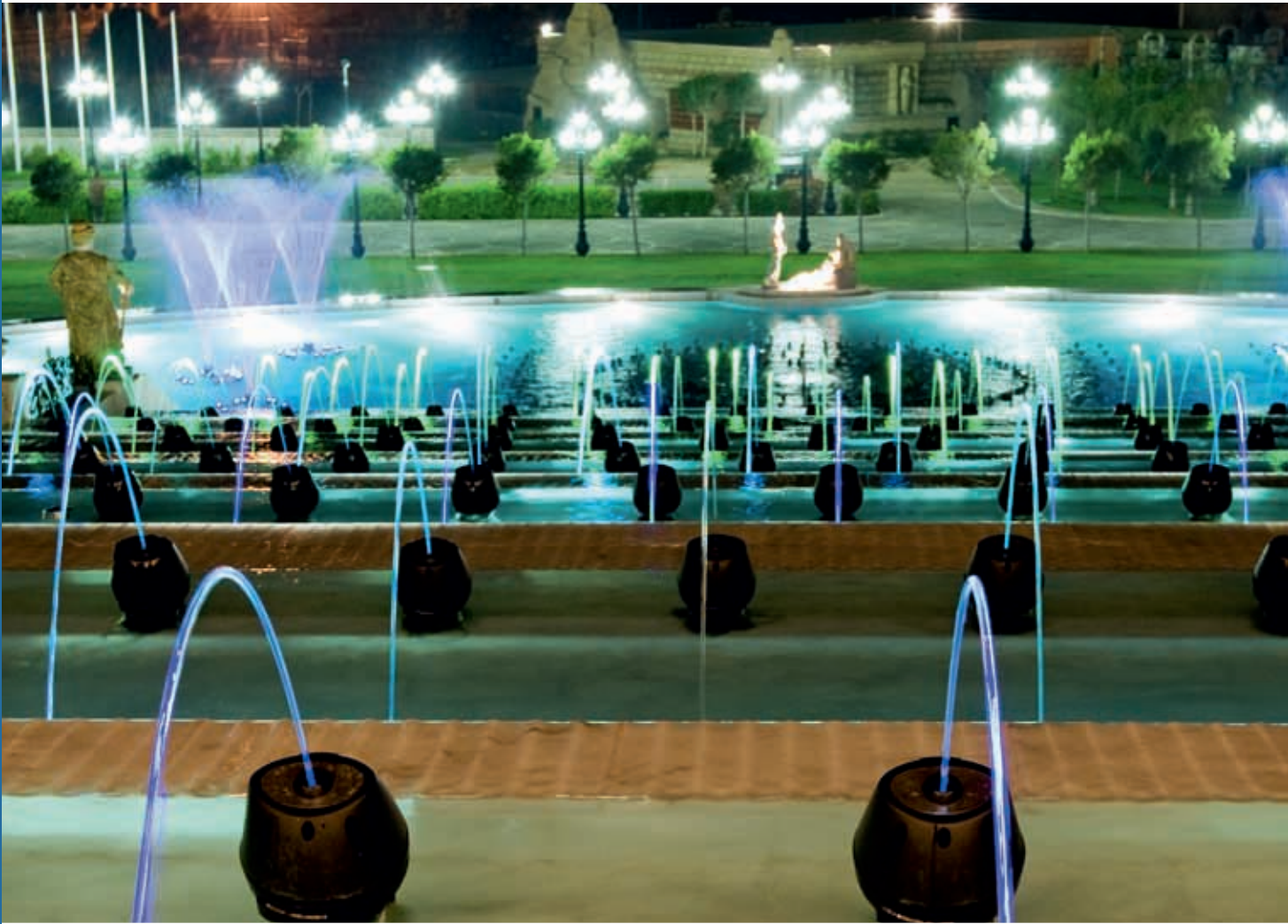
- Jumping Jet systems are a magnetic attraction at events, in leisure parks, and amusement parts, and they ensure something extra at all unusual events.

But see for yourself...



*Jumping Jet systems from OASE are magnetic attractions at any event.*

• Jumping Jet systems	page 18
Rainbow-Flash	page 20
Rainbow-Star	page 22



#### PRECISION WATER FEATURES

The **Jumping Jet Rainbow Systems** are a fascinating attraction on every event – such as on Mount Faber in Singapore (image on the bottom right) – easy to install and programmable according to your wishes. Reminding of Arabian Nights, the site of Mardan Palace Hotel in Antalya, Turkey is one of the most exclusive Hotels in the Mediterranean. The installation combines water with laser and LED light and impresses by underlining the unique terrace architecture.



## JUMPING JET SYSTEMS

Water jets magically shoot through the air in broad arcs and disappear, just as unexpectedly as they appeared – Jumping Jet systems are the attraction in leisure parks and amusement parks, in discotheques, at trade shows, exhibitions, and other events.

Each shot generates a new configuration of precisely-cut water jets that disappear in a small catch opening with pin-point precision. The fascinated observer never knows what will happen next. The effect is particularly beautiful at night when the water jet transports light freely through the surrounding darkness as if by magic. Moreover a continuous water arc that “stands in the air” like a glass jet can be generated with the Jumping Jet system to provide a totally unique fascination.





## JUMPING JET RAINBOW FLASH /DMX/01

The Jumping Jet Rainbow Flash combines functionality, virtually unlimited creative freedom, and unique design.

The combination possibilities give the system an individual flair: The colour of the integrated RGB-light can be freely selected.

Alternatively the laminar water jet can also be cut off.

### Product characteristics at a glance

- Can be used indoors and outdoors
- Surprising water features
- Precise, crystal clear water jets
- Jet diameter 18 mm
- Integrated illumination effects with strong RGB-LED light
- Cut off function
- Freely programmable with Easy Control system (not included)
- Vibration-free, quiet operation
- Easy to clean
- Extremely stable – with or without floor anchoring
- Fast and easy installation
- Compact stainless steel design

### INNOVATION – MADE BY OASE





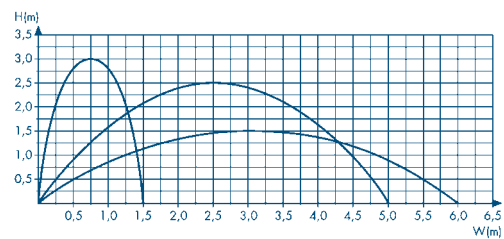


#### Technical note

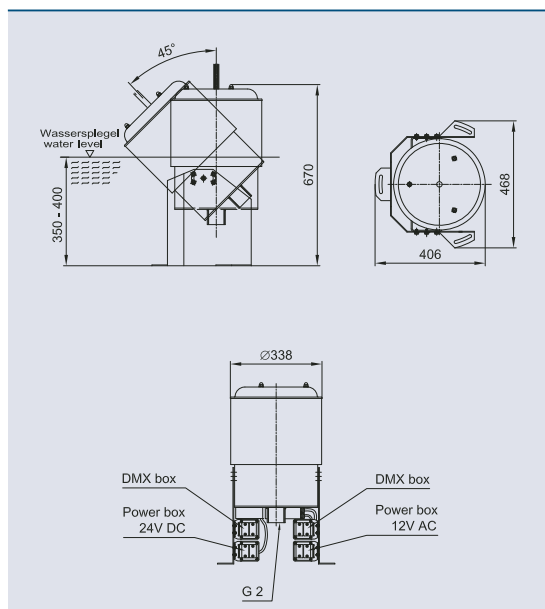
When operating the Rainbow-Flash, water can splash, particularly with water jets that are shot quickly in succession; the amount is approx. 2 litres per hour. The amount of splash water is negligible if the water jet is operated as a full, continuous parabola.

The water must be clean in order to transport light via the water jet. The target point can only be illuminated by the parabola (see graphic on right) if the water is clear.

#### Possible water parabola



#### Jumping Jet Rainbow Flash



#### Jumping Jet Rainbow Flash /DMX/01

Dimensions (L x W x H)	468 x 406 x 670 mm
Light type	LED RGB multiple spotlights
Rated voltage mechanical components	24 V / DC
Rated voltage illumination	12 V / AC
Power consumption mechanical components	40 W
Power consumption illumination	6 W
Jet diameter	18 mm
Min. water depth	300 mm
Max. water depth	400 mm
Vertical pivoting range	45 – 90°
DMX connection	2 x
Material	stainless steel
Weight	approx. 50 kg
Order no.	50346



## JUMPING JET RAINBOW STAR

The new generation of the Rainbow Star combines functionality, virtually unlimited creative freedom, and unique design.

The combination possibilities give the system an individual flair: The colour of the integrated RGB-light can be freely selected and can be supported in its effect by numerous switchable running light functions. Alternatively the laminar water jet can also be cut off.

### Product characteristics at a glance

- Can be used indoors and outdoors
- Selectable RGB-LED light
- Switchable running light function
- Laminar water jet
- Cut off function
- Freely programmable with Easy Control system (not included)
- Fast and easy installation





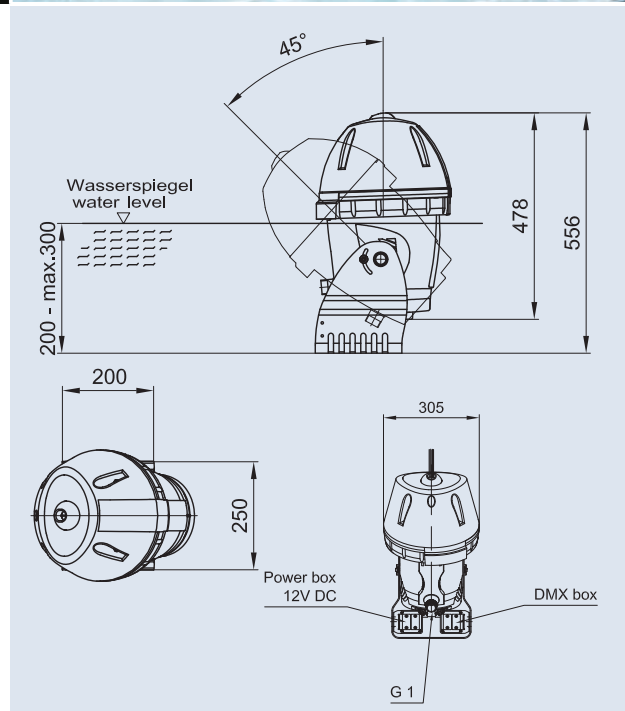


### Technical note

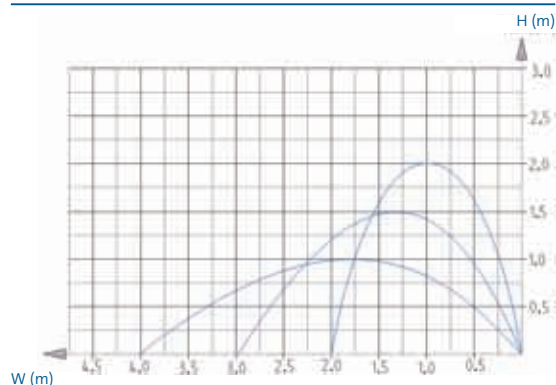
With the respective pump and control technique you can reach different water parabolas (see graphic below). An ideal pump for these effects is the **Varionaut 2**, see **page 126**.

When operating the Rainbow-Star, water can splash, particularly with water jets that are shot quickly in succession; the amount is approx. 2 litres per hour. The amount of splash water is negligible if the water jet is operated as a full, continuous parabola (see graphic).

The water must be clean in order to transport light via the water jet. The target point can only be illuminated by the parabola if the water is clear.



### Possible water parabola



Jumping Jet Rainbow Star

Jumping Jet <b>Rainbow Star /DMX/01</b>	
Dimensions (L x W x H)	478 x 305 x 555 mm
Light type	LED RGB multiple spotlights
Rated voltage (mechanical/illumination)	12 V / AC
Power consumption (mechanical components)	33 W
Jet diameter	12 mm
Min. water depth	200 mm
Max. water depth	300 mm
Vertical pivoting range	45 – 90°
DMX connection	1 x
Material	stainless steel/plastic
Weight	approx. 11 kg
Order no.	50345







# A TREND BECOMES A FEELING OF BEING ALIVE.

PROFIT FROM THE CURRENT WELLNESS TREND AND MAKE YOUR DREAMS COME TRUE. WITH THE SWIM POND CONCEPTS FROM OASE.

A private swimming pond in the garden – pure wellness and the dream of many garden owners. A dream that can come true thanks to the swim pond concepts from OASE. All of our experience with gardens, pond construction, water quality, and pond technology come together in this area and enable us to offer mature, complete packages.

Our Swimponds offer the right concept for every taste, all requirements, and not least for any budget:

- The Swimpond Set module is particularly well-suited as basic or entry level model, even for do-it-yourself installation.
- Swimpond individual is the name of the exclusive solution for a personal wellness temple on difficult terrain, or for demanding customers with very individual tastes.



- |                               |         |
|-------------------------------|---------|
| • Care and treatment          | page 26 |
| • Swimpond Modules            | page 28 |
| • Pond construction materials | page 30 |
| • Swimpond individual         | page 31 |

## THE SWIMPOND IN FOUR SEASONS – CARE AND MAINTENANCE – WHAT MUST BE DONE?

### Seasonal cycles and life cycles of the pond biology

Owning a swimpond means experiencing nature firsthand.

As the seasons change the form of the pond also changes and so do its needs. External influences such as weathering and vegetation ensure that numerous parameters in the pond are subject to natural fluctuations – e.g. nutrient content, temperature as well as the kind and quantity of creatures.

For example, algae are part of the nutrient pyramid and are present in every natural as well as nearly-natural body of water. Moreover a pond also changes from year to year and passes through different natural phases.

A newly created pond needs time to develop the necessary pond biology, so that the biological-mechanical filtration can achieve its full effect. In addition a swimpond in the course of its development is subject to vegetational change so that depending on location plants and pond inhabitants also change over the course of time. With these constant development processes increased string algae can also be a frequent occurrence. Likewise a certain amount of sedimentation is unavoidable in the course of pond development.

However the OASE concept is based on maintaining the pebble filter surfaces for as long as possible and to work with low levels of sedimentation.

String algae will also occur - however this is sign of good water quality. In this case the important thing is to reduce the phosphate content.

### Pond construction

The cornerstone for a functioning swimpond ecosystem is laid when the pond is constructed. Clean and professional work helps to keep subsequent maintenance effort to a minimum. Consequently strictly follow the instructions in the swimpond construction manual.

### Care measures

*1. Silt:* The OASE swimpond concept is to keep sediment to a minimum. Nevertheless deposits form on the pond floor and they must be vacuumed out at the latest when deposits are 2-3 cm deep, to prevent anaerobic putrefaction. Naturally you can also vacuum out these deposits more frequently for visual reasons. The OASE Pondo-vac 4 is particularly well-suited in this regard.

*2. Leaves:* Falling leaves mean nutrient input, and thus an additional burden for the swimpond ecosystem. Always ensure that your pond is protected from leaves, e.g. through leaf nets or appropriate landscaping of the area around the swimpond. In autumn empty the skimmer's collection basket on a regular basis.

*3. Algae:* There is no natural body of water that does not have algae – algae only become a problem if there is excessive development.

*The following are suitable reduction measures:*

- Mechanical removal and vacuuming
- Biological/chemical control through the use of pond care agents (e.g. string algae control through hydrogen peroxide)
- Introduction of nutrient competition through microorganism or cutting back water plants, particularly water lilies.





4. *Planting:* Plants absorb nutrients – consequently trim your plants before they store their nutrients in the pond near the end of the vegetation period.

5. *Water quality:* Have your pond water analysed on a regular basis, so that you can react as quickly as possible to changes in the water values. The Water Test LM from OASE is extremely well-suited for this purpose. For example high phosphate content is a nutrient medium for string algae and can be reduced through the use of Phosless LM.

6. *Edges/seal:* Always ensure that the capillary barrier is intact, particularly with regard to plants that can grow over it. In addition indirect nutrient sources such as rain water represent a burden for the pond system. Surface

water or run-off water absorbs the nutrients and carries them into the pond.

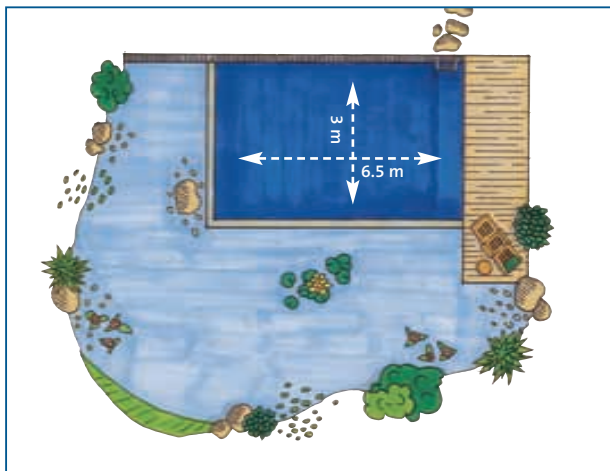
7. *Snails and waterfowl:* Always keep snails and waterfowl away from the swimpond, as they feed on plants and insects that play an important role in the nutrient cycle. In addition snails and waterfowl stress the pond through excrement. Different pathogens can be introduced into the pond in this manner, for example cercariae that can trigger an unpleasant skin rash on humans.

## SWIMPOND MODULES 20 / 32

The professional products from our swimming pond concept offer complete solutions for every situation. Regardless of the module that your customer chooses, one thing remains the same: The first-class technology of OASE.

### Product characteristics at a glance

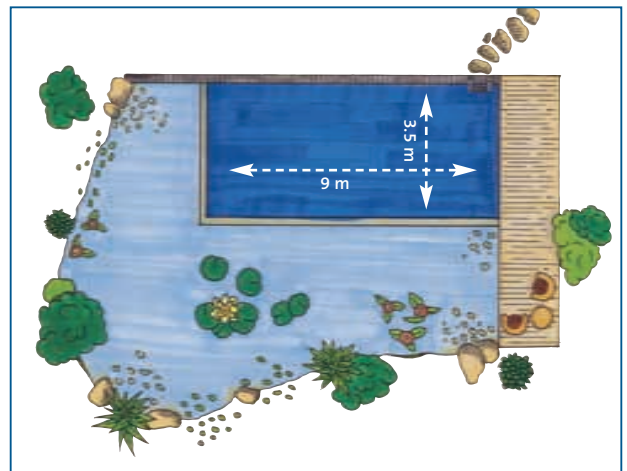
- Complete package offers certainty in the cost calculation
- Use of tested pumps, filter, UVC and lighting technology, suitable for swimming ponds
- Construction also possible in confined space
- Safety due to fresh water analysis included in the module price
- Proven participation concept enables reduction of the investment due to doing work yourself
- No need for expensive, chemical cleaning additives, thanks to the self-cleaning processes of the pond
- High energy-efficiency of the filter system reduces the operating costs compared to a classic swimming pool
- Aesthetically pleasing integration into the natural environment of the garden
- Detailed building instructions answer all questions
- 5 year warranty on the entire system for your customers



#### Swimpond 20

The module offers significantly more room for swimming and paddling. Pure fun for the whole family!

Size of the pure swimming zone	3x6.5 m
Swim depth	1.35 m
Water surface app.	65 m <sup>2</sup>
Complete ground surface app.	83 m <sup>2</sup>
Order no.	57284



#### Swimpond 32

Our biggest module turns everyone into an early riser in order to tranquilly swim a few laps before work. The perfect start to the day!

Size of the pure swimming zone	3.5x9 m
Swim depth	1.60 m
Water surface app.	85 m <sup>2</sup>
Complete ground surface app.	107 m <sup>2</sup>
Order no.	57285

Note: See page 31 for special requirements for the swimming pond construction and assorted sales materials





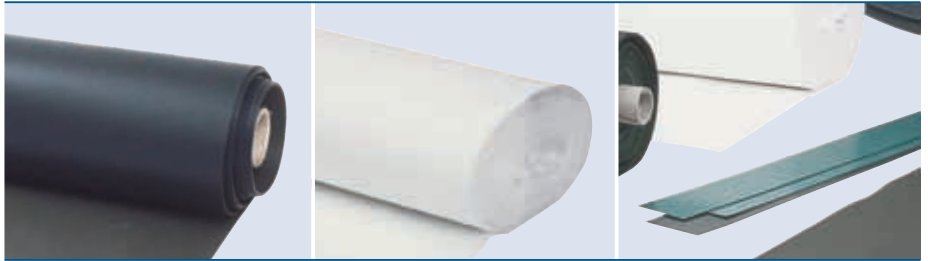
### The Swimpond modules offer the following scope of supply:

Technology package	Swimpond 20	Swimpond 32	Service package
<b>Filtersystem</b>			<b>Pond construction</b>
Proficlear M1	1	1	Specification drawing/construction plan ✓
Proficlear M3	3	4	Tested and approved structure statics ✓
<b>Filter granulate</b>			Detailed building instructions ✓
Phosless filter media tubes	8	10	Expert liner laying* ✓
<b>UVC clarifier for sterilisation</b>			Expert fleece laying* ✓
Bitron 110 C	1	1	Expert installation of liner ducts* ✓
<b>Recirculation/filtration pumps</b>			Expert installation - PVC foil laying* ✓
Optimax 15000	1	—	<b>Consulting*</b>
Optimax 20000	—	1	Fresh water analysis with recommendation* ✓
<b>Surface skimmer</b>			Expert hotline (14 cents/minute)* ✓
Profiskim 100	1	1	<b>When contracting out the work</b>
<b>Illumination</b>			Specification texts for all jobs ✓
Lunaqua 10 including bulbs	3	4	<b>Expert planning</b>
Transformer UST 150	1	1	Biology/filtration in swimming ponds ✓
Lunaqua 10 Connecting cable 15 m	3	4	Plant planning for regeneration areas ✓
<b>Entry</b>			Care / maintenance of the swimming pond ✓
Stainless steel entry ladder 4-steps	1	1	
<b>Maintenance</b>			
Pondovac 4	1	1	
<b>Accessories</b>			
Pipeline kit and fittings	1	1	
<b>Water quality</b>			
Water Analysis Set	1	1	
<b>Pond construction</b>			
Swimming pond liner	110 m <sup>2</sup>	145 m <sup>2</sup>	
Protective fleece	140 m <sup>2</sup>	180 m <sup>2</sup>	
Liner duct set	1	1	
PVC liner plates package	1	1	
Inlet and capillary barrier	1	1	

\* Outside of Germany these consulting and service options are only available on request. Contact us!

 On page 30, this sign indicates the pond construction materials contained in the technology package.

## POND CONSTRUCTION MATERIALS FOR THE OASE SWIMPOND MODULES



	Swimfol Classic	Swimfol protective fleece	Swimpond liner sheet
	Olive green, extremely rugged PVC swimming pond liner Guarantee: 15 years	White PES protective fleece to protect the liner from damage	Sheet coated on one side with PVC liner for clean liner edges and seals. The liner is thermally welded directly to the sheet
Thickness	1.5 mm	500 g/m²	Sheet 0.6 mm + Liner 0.6 mm
Dimensions [m]	2 x 15.0	2 x 40.0	2 x 0.1
On the roll	yes	yes	–
Order no.	37246	37248	37249

### LINER CONNECTIONS / LINER TRANSITIONS

For the liner connection and for penetration of pipes and hoses. They consist of one or two pipe adhesive connections and a moulded liner sleeve that is tightly bonded to the liner through sealing. This connection can withstand extreme stress.



	Liner connection DA 50	Liner duct	DA 50	DA 63	KG-Liner duct DN 100
	Single-side adhesive and liner flange	Dual-sided adhesive and liner flange			Liner flange including pipe piece
Order no.	37252		37254	37255	37256

### SWIMFLEX

Flexible and extremely rugged PVC conduit for the simple installation of pipes - particularly in swimming ponds.  
Can be bonded to PVC connection fittings.



	Swimflex DA 50	Swimflex DA 63
Exterior diameter [mm]	50	63
Length [m]	25.0	25.0
On the roll	yes	yes
Order no.	37288	37287



## SWIMPOND INDIVIDUAL.

### THE CUSTOM-TAILORED SOLUTION FOR SPECIAL REQUIREMENTS.



**OASE Swimpond individual** – the custom-tailored solution for all customers who appreciate the unique. Depending on the requirements our experts plan custom swimponds that leave nothing to be desired. Contact us.

Do none of our prefabricated swimpond modules satisfy all the requirements, and your customer and his family however do not want to forego the nearly natural experience of having their own swimpond? Our special service for all who need a custom-tailored solution is called Swimpond individual. For an additional charge the OASE swimpond experts will plan the custom solution for your customers if none of our prefabricated modules meet the local requirements. Thus you can satisfy all of your customers' dreams of having their own swimpond.

Contact us [for professional planning](#) of an individual swimpond by our experts.

#### Special prerequisites for use of technology in and on the swimpond. (valid in Germany only)

- Installation, assembly and operating instructions for OASE technology in accordance with DIN VDE 0100 Part 702 and Part 737.
- In the pond only operate devices with a maximum of 12V.
- All devices (UVC clarifiers, circulation pumps, transformers for lights and/or aerators) with more than 12V power must be set up outside of the body of water in a separate chamber. In this case the requirement that must be complied with is either a minimum distance of 2 m to the edge of the pond or set up in a lockable installation chamber. In the installation chamber the pump can be set up dry or it can be submersed in a separate pump chamber.
- The water-conducting pipes must be made of plastic.
- A 30 mA fuse must be installed.

#### INFORMATION



#### SWIMPOND CONSTRUCTION DVD

Animated brief presentation (approx. 5 min), with interactive swimpond configurator.

**Order no. 37415**





# THE INNER VALUES ARE THE IMPORTANT THINGS.

THE SAME PRINCIPLE APPLIES FOR LARGE BODIES OF WATER:  
TRUE BEAUTY COMES FROM WITHIN AND MUST BE CULTIVATED!

Many factors determine the quality of a body of water. Fish and waterfowl introduce nutrients, and falling leaves in autumn, as well as blossoms in spring increase the availability of nutrients. The results are algae growth and formation of sludge that silts up the body of water. OASE water quality products offer a totally natural remedy; the regenerative powers of the body of water are reinforced and accumulating nutrients are broken down biologically. Such artificial lakes and ponds enjoy sustainable clarity and create a habitat where not only plants and fish thrive – due to innovative OASE products!

Our selection table on the following page helps you to select the right OASE products for the size of your body of water, and it also shows the space that may be required for the appropriate installation. Contact us with any questions, we would be pleased to advise you and to prepare a non-binding quotation.

New in stock:

- OASE Clear Fountain System – the controlled solution for clear water in small and medium-sized bodies of water with compact dosing station and matched care agents.
- OASE Clear Lake System – the smart solution for maximum results thanks to an innovative electrolysis process, particularly suited for larger bodies of water.

• Configuration chart	page 34
• Aerators	page 36
• Surface skimmers	page 40
• Water quality	page 42
• UVC Clarifiers	page 48
• Flow through filters	page 48
• Modular filters	page 51
• Crystal quartz sand filter	page 54
• »Clear Fountain System«	page 56
• Water treatment	page 56
• »Clear Lake System«	page 58



## CONFIGURATION CHART

	Lake	Lake	Lake	Lake	
<b>Active system</b>	Improved water values through aeration	Silt removal	Surface cleaning	Proficlear Module Filter	
Size in m <sup>3</sup> <b>≤ 100</b>	1x Aqua Air 250 1x Bacto Plus	1x Ground Clear	1x Skimmer 250	1x Profimax 20000, 1x M1* 2x Bitron 110, 2x M2, 6x M3 2x M5, 2x Screendrive 1x Profiskim 100, 15x Phosless	
Space requirements [cm]				max. 200 x 500	
Size in m <sup>3</sup> <b>≤ 150</b>	1x Aqua Air 250 1x Bacto Plus	1x Ground Clear	1x Skimmer 250	1x Profiskim 100, 1x M1*, 1x Profimax 20000, 2x Bitron 110, 2x M2, 2x Screendrive, 6x M3, 2x M5, 15x Phosless, 1x AquaAir 250	
Space requirements [cm]				max. 200 x 500	
Size in m <sup>3</sup> <b>≤ 200</b>	1x Aqua Air 250 1x Bacto Plus	1x Ground Clear	1x Skimmer 250	1x Profiskim 100, 1x M1*, 1x Profimax 20000, 1x Bitron 550, 2x M2, 2x Screendrive, 6x M3, 4x M5, 15x Phosless, 1x AquaAir 250	
Space requirements [cm]				max. 200 x 650	
Size in m <sup>3</sup> <b>≤ 300</b>	2x Aqua Air 250 2x Bacto Plus	2x Ground Clear	2x Skimmer 250	2x Profiskim 100, 2x M1*, 2x Profimax 20000, 1x Bitron 550, 3x M2, 3x Screendrive, 9x M3, 3x M5, 15x Phosless, 1x AquaAir 250	
Space requirements [cm]				max. 350 x 550	
Size in m <sup>3</sup> <b>≤ 500</b>	2x Aqua Air 250 2x Bacto Plus	2x Ground Clear	2x Skimmer 250	2x Profiskim 100, 2x M1*, 2x Profimax 20000, 2x Bitron 550, 4x M2, 4x Screendrive, 8x M3, 4x M5, 15x Phosless, 1x AquaAir 250	
Space requirements [cm]				max. 420 x 500	
Size in m <sup>3</sup> <b>≤ 750</b>	2x AquaAir 250 3x Bacto Plus	3x Ground Clear	3x Skimmer 250	2x Profiskim 100, 2x M1*, 2x Profimax 20000, 2x Bitron 550, 4x M2, 4x Screendrive, 8x M3, 8x M5, 30x Phosless, 2x AquaAir 250	
Space requirements [cm]				max. 420 x 550	
Size in m <sup>3</sup> <b>≤ 1.000</b>	1x Air Flo 1.5 kW 4x Bacto Plus	4x Ground Clear	4x Skimmer 250	2x Profiskim 100, 2x M1*, 2x Profimax 20000, 2x Bitron 550, 4x M2, 4x Screendrive, 12x M3, 8x M5, 30x Phosless, 2x AquaAir 250	
Space requirements [cm]				max. 420 x 650	
Size in m <sup>3</sup> <b>≤ 2.000</b>	1x Air Flo 1.5 kW 8x Bacto Plus	8x Ground Clear	8x Skimmer 250	On request	
Space requirements [cm]					
Size in m <sup>3</sup> <b>≤ 5.000</b>	1x Air Flo 4.0 kW, 1x Air Flo 1.5 kW, 8x Bacto Plus	On request	On request	On request	
Space requirements [cm]					
Size in m <sup>3</sup> <b>≤ 10.000</b>	2x Air Flo 4.0 kW 10x Bacto Plus	On request	On request	On request	
Space requirements [cm]					
Size in m <sup>3</sup> <b>≤ 15.000</b>	3x Air Flo 4.0 kW 10x Bacto Plus	On request	On request	On request	
Space requirements [cm]					
Size in m <sup>3</sup> <b>≤ 20.000</b>	4x Air Flo 4.0 kW 12x Bacto Plus	On request	On request	On request	
Space requirements [cm]					

**Note on runtimes:** For lake configurations all of the systems should be operated continuously 24 h a day during the vegetation period.  
Pool configurations should be operated at least 12 out of every 24 h.

\* Assumption: Module filter system in pumped setup



#### Abbreviations:

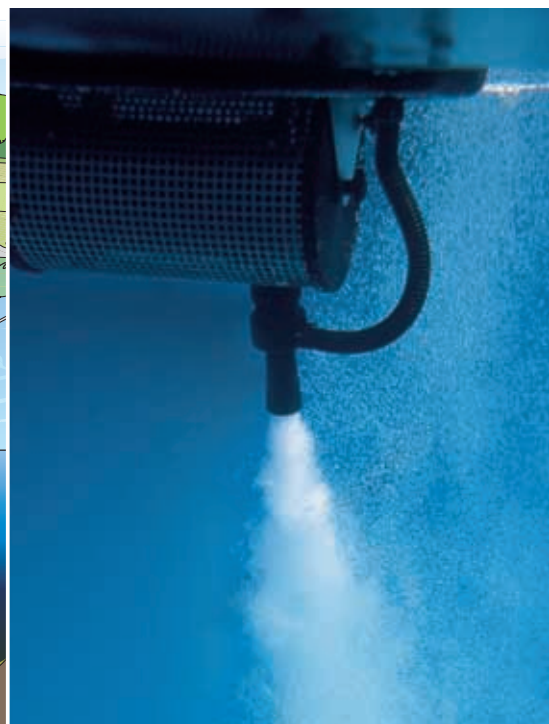
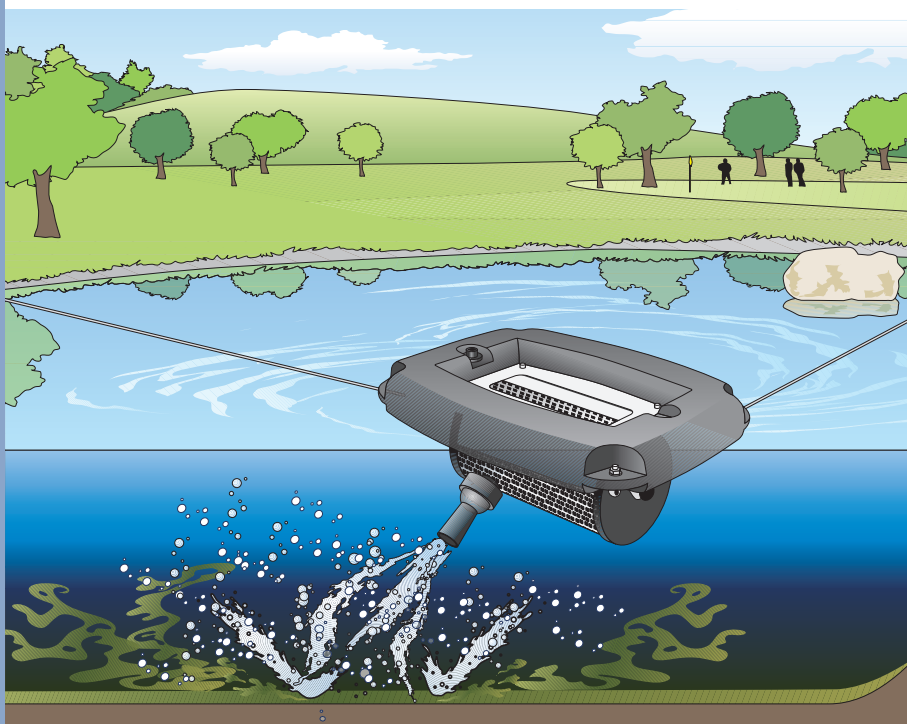
**M1** = Proficlear M1 pump chamber  
**M2** = Proficlear M2 coarse debris extractor  
**M3** = Proficlear M3 filter foam module  
**M5** = Proficlear M5 phosphate binder module

**Clear Fountain System** = dosing station  
**PHW** = active ingredient: Sulphuric acid  
**ADR** = active ingredient: Hydrogen peroxide  
**ASS** = active ingredient: Ammonium chloride

**SF** = suction filter basket  
**QSF** = quartz sand filter  
**AFM** = activated filter medium

	Lake	Pool	Pool
	Clear Lake System	Clear Fountain System	Clear Lake System
	1x Clear Lake 250 1x QSF 800, 2x SF 200/250/25E, 13x Quartz sand (25 kg), 1x Control panel max. 100 x 250	1x Clear Fountain System, 1x PHW 30, 1x ADR 90, 1x ASS 100, 2x SF 200/250/25E, 2x QSF 800, 26x AFM (25 kg), 1x Control panel max. 100 x 350	1x Clear Lake 250, 2x SF 200/250/25E, 1x QSF 800, 13x AFM (25 kg), 1x Control panel max. 100 x 300
	1x Clear Lake 250, 2x SF 200/250/25E, 1x QSF 800, 13x Quartz sand (25 kg), 1x Control panel max. 100 x 250	1x Clear Fountain System, 1x PHW 30, 1x ADR 90, 1x ASS 100, 3x SF 200/250/25E, 3x QSF 800, 39x AFM (25 kg), 1x Control panel max. 100 x 450	1x Clear Lake 250, 3x SF 200/250/25E, 2x QSF 800, 26x AFM (25 kg), 1x Control panel max. 100 x 400
	1x Clear Lake 250, 2x SF 200/250/25E, 1x QSF 800, 13x Quartz sand (25 kg), 1x Control panel max. 100 x 250	1x Clear Fountain System, 1x PHW 30, 1x ADR 90, 1x ASS 100, 4x SF 200/250/25E, 4x QSF 800, 52x AFM (25 kg), 1x Control panel max. 100 x 550	1x Clear Lake 250, 3x SF 200/250/25E, 2x QSF 800, 26x AFM (25 kg), 1x Control panel max. 100 x 400
	1x Clear Lake 250, 3x SF 200/250/25E, 2x QSF 800, 26x Quartz sand (25 kg), 1x Control panel max. 100 x 350	1x Clear Fountain System, 1x PHW 30, 1x ADR 90, 1x ASS 100, 6x SF 200/250/25E, 6x QSF 800, 78x AFM (25 kg), 1x Control panel max. 250 x 450	1x Clear Lake 250, 4x SF 200/250/25E, 3x QSF 800, 39x AFM (25 kg), 1x Control panel max. 100 x 500
	1x Clear Lake 500, 3x SF 200/250/25E, 2x QSF 800, 26x Quartz sand (25 kg), 1x Control panel max. 100 x 350	1x Clear Fountain System, 1x PHW 30, 1x ADR 90, 1x ASS 100, 10x SF 200/250/25E, 10x QSF 800, 130x AFM (25 kg), 1x Control panel max. 250 x 550	1x Clear Lake 500, 5x SF 200/250/25E, 4x QSF 800, 52x AFM (25 kg), 1x Control panel max. 100 x 600
	1x Clear Lake 500, 4x SF 200/250/25E, 3x QSF 800, 39x Quartz sand (25 kg), 1x Control panel max. 100 x 450	1x Clear Fountain System, 1x PHW 30, 1x ADR 90, 1x ASS 100, 15x SF 200/250/25E, 15x QSF 800, 195x AFM (25 kg), 1x Control panel max. 250 x 750	1x Clear Lake 500, 7x SF 200/250/25E, 6x QSF 800, 78x AFM (25 kg), 1x Control panel max. 250 x 450
	1x Clear Lake 500, 1x Clear Lake 250, 6x SF 200/250/25E, 4x QSF 800, 52x Quartz sand (25 kg), 1x Control panel max. 100 x 550	1x Clear Fountain System, 1x PHW 30, 1x ADR 90, 1x ASS 100, 20x SF 200/250/25E, 20x QSF 800, 260x AFM (25 kg), 1x Control panel max. 250 x 1200	2x Clear Lake 500, 9x SF 200/250/25E, 8x QSF 800, 104x AFM (25 kg), 1x Control panel, 1x Skimmer 250 max. 250 x 450
	2x Clear Lake 500, 8x SF 200/250/25E, 6x QSF 800, 78x Quartz sand (25 kg), 1x Control panel max. 250 x 550	On request	On request
	1x Clear Lake 5000, 11x SF 200/250/25E, 10x QSF 800, 130x Quartz sand (25 kg), 1x Control panel max. 250 x 750	On request	On request
	1x Clear Lake 20000, 11x SF 200/250/25E, 10x QSF 800, 130x Quartz sand (25 kg), 1x Control panel, 1x Air Flo 2000 max. 250 x 850	On request	On request
	1x Clear Lake 20000, 11x SF 200/250/25E, 10x QSF 800, 130x Quartz sand (25 kg), 1x Control panel, 2x Air Flo 2000 max. 250 x 850	On request	On request
	1x Clear Lake 20000, 11x SF 200/250/25E, 10x QSF 800, 130x Quartz sand (25 kg), 1x Control panel, 3x Air Flo 2000 max. 250 x 850	On request	On request

**Comment on space requirements:** Net surface requirement, incl. distance between the filter units, plus walk-on surface.



## AQUA AIR 250

Oxygen plays a crucial role in breaking down nutrients in water. Many of the problems associated with an artificial lake or pond, such as algae infestation, silt or odour nuisance can be attributed to oxygen deficits. Missing oxygen can be fed into the body of water through specific water movement that introduces air. This stabilises a body of water's biological power of regeneration and results in optimal quality of the artificial lake or pond.

The Aqua Air 250 is a floating aerator that provides an adequate supply of oxygen for bodies of water up to 250,000 litres. A pump supplies the air/water mixture to the artificial pond or lake via the venturi principle. The high volume flow guarantees air supply in the entire body of water through strong flow movements. Deep zones as well as shallow water zones can be optimally supplied with oxygen through the adjustable angle of the flow injector.



### Product characteristics at a glance

- Adjustable injection nozzle for specific application of oxygen
- Depth penetration to 4 metres
- High flow speeds transform any standing body of water into a flowing body of water
- Extra-long service life due to canned motor technology without seals that are subject to wear
- Low-noise underwater operation
- Stainless steel filter basket and suspension
- Fastening material is included in the scope of delivery
- Optimal oxygen supply thanks to small bubbles
- 2 year guarantee.





## Injection nozzle

Adjustable injector nozzle for specific oxygen input with supplemental bore for deep ventilation



## Drive

Pump drive with venturi nozzle



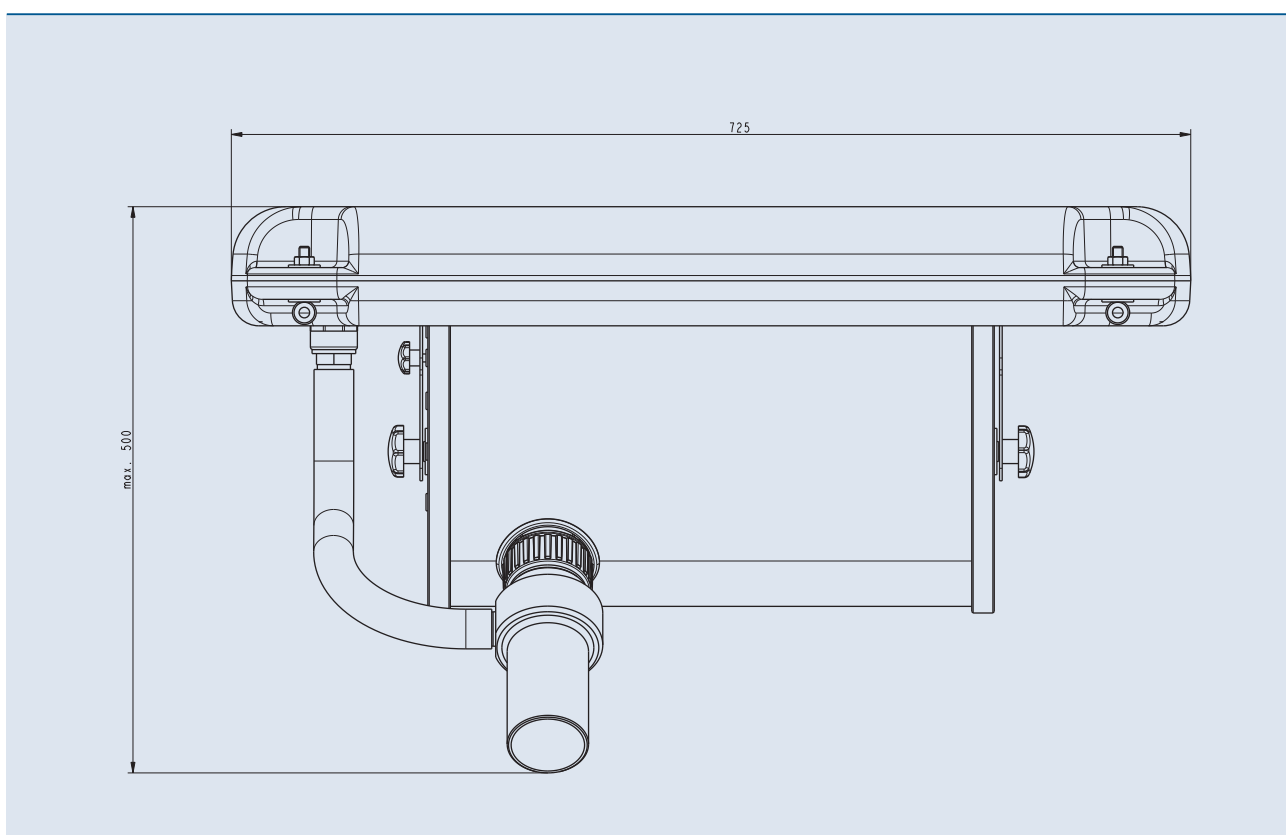
## Stainless steel basket

High-quality design with corrosion-resistant filter basket and suspension



## Fastening material

Easy, secure anchoring of the aerator thanks to the fastening material included in the scope of delivery



Before:



After:



Aqua Air 250	
Dimensions (L x W x H)	725 x 555 x 310 mm
Rated voltage	230 V / 50 Hz
Power consumption (Pump)	650 W
Litres per hour max.	30000 l/h
Air displacement quantity	ca. 8500 l/h
Radiation depth	up to 4.0 m*
Filter surface intake	ca. 3000 cm <sup>2</sup>
For bodies of water to max.	250 m <sup>3</sup>
Minimum water depth	0.5 m
Cable length	30.0 m
Weight	28.0 kg
Guarantee	2 years
Order no.	57479

\* Depends on the jet angle set



Application example for supplied Air Flo water patterns M/L/XL

AIR FLO

Air Flo sets new standards in the areas of lake aeration and decoration: The axial propeller technology ensures impressive and unequalled water flow rates of up to 295,000 l/h – for an optimal supply of oxygen to the lake. The three decorative, voluminous water patterns can easily be changed and offer the possibility of integrating additional lighting sets with up to 9 lights. In addition two other water patterns can be retrofitted: Okanagan and Superior.

Product characteristics at a glance

- Axial propeller technology for maximum water flow rates
- 3 different, voluminous »Trumpet« type water patterns
- Easy installation and maintenance through bayonet technology
- Foamed float for extraordinary stability
- Stainless steel pump basket
- Mounting set included
- Supplemental lighting set with innovative stainless steel holder can also be ordered
- 2 year guarantee



Accessories (must be ordered separately, more accessories on page 70!)



Illumination set Air Flo LED	
Lunaqua 10 LED /01	3 x
Stainless steel holder	3 x
Transformer 150 VA	1 x
Cable length	50.0 m
Order no.	50479



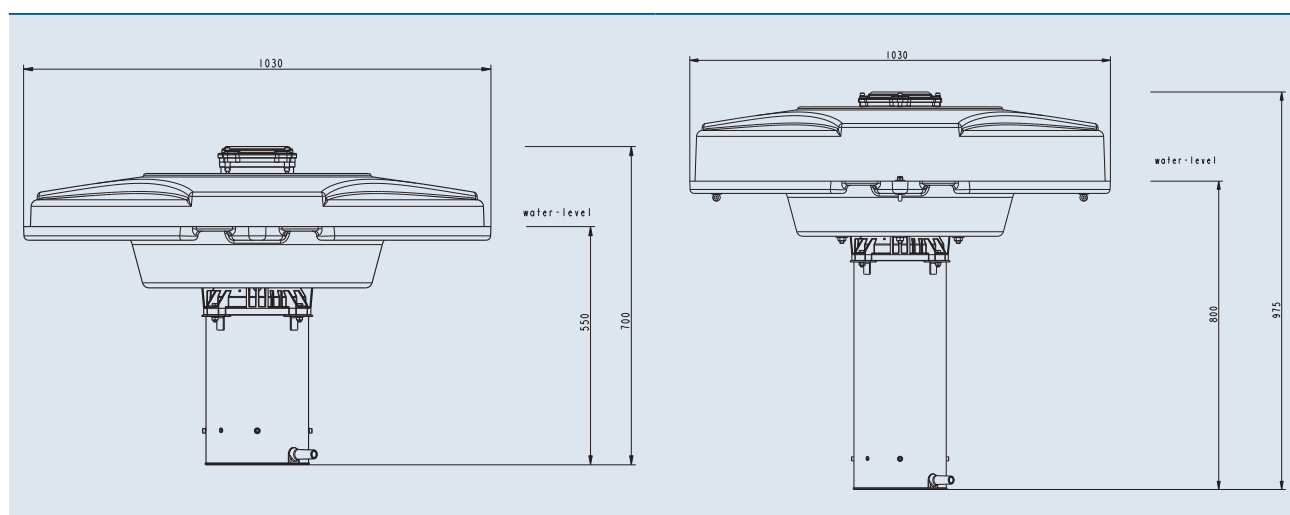
Powerdata of the different water patterns		1.5kW / 230V	1.5kW / 400V	4.0kW / 400V
<b>Water pattern M</b>	Fountain H x W* [m]	0.8 x 3.5	0.8 x 3.5	1.5 x 6.0
	Flow rate [l/h]	165000	175000	295000
<b>Water pattern L</b>	Fountain H x W* [m]	1.0 x 5.0	1.0 x 5.0	2.0 x 8.0
	Flow rate [l/h]	160000	160000	265000
<b>Water pattern XL</b>	Fountain H x W* [m]	2.0 x 6.0	2.0 x 6.0	3.0 x 10.0
	Flow rate [l/h]	125000	125000	225000
<b>Lake sizes</b>				
Minimum lake size	[m <sup>2</sup> ]	100	100	500
Opt. effect for lakes up to	[m <sup>2</sup> ]	5000	5000	15000
Suction depth max.	[m]	4.0	4.0	5.0

\*Approximate

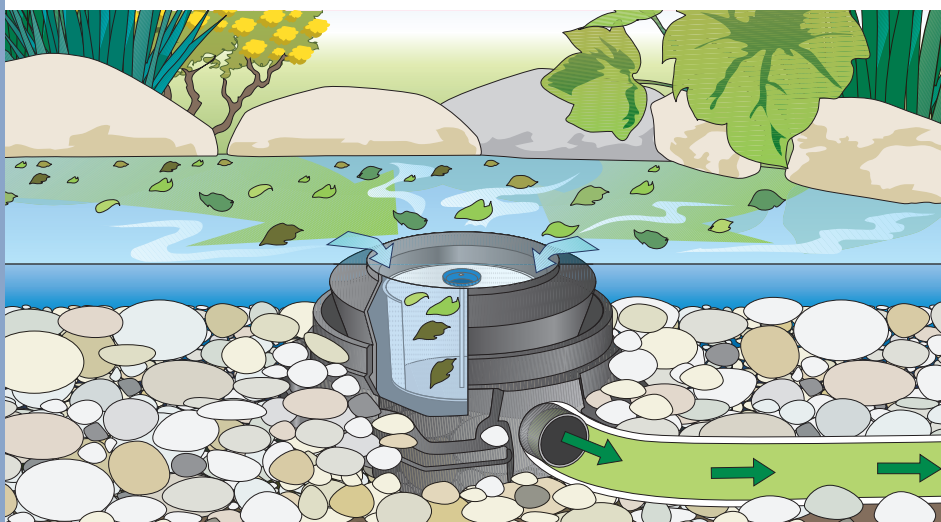


#### Accessories (must be ordered separately)

Additional Air Flo water patterns		1.5kW/Nozzle Superior L	4kW/Nozzle Superior XL	1.5kW/Nozzle Okanagan L	4kW/Nozzle Okanagan XL
Diameter water pattern	[m]	7	10	6	8
Height water pattern	[m]	2	3.65	2	3
Flow rate	[l/h]	120000	216000	120000	126000
<b>Order no.</b>		<b>50349</b>	<b>50350</b>	<b>50333</b>	<b>50348</b>



Air Flo		1.5kW / 230V	1.5kW / 400V	4.0kW / 400V
Dimensions (ø x H)	[mm]	700 x 1150	700 x 1150	950 x 1150
Nominal voltage	[V/Hz]	230/50	400/50	400/50
Pump power	[kW]	1.5	1.5	4.0
Nominal current	[A]	10.2	4.2	9.6
Litres per hour max.	[l/h]	165000	175000	295000
Minimum water depth	[m]	0.90	0.90	1.15
Cable length	[m]	50.0 + 2.0	50.0 + 2.0	50.0 + 2.0
Guarantee	[years]	2	2	2
Weight	[kg]	ca. 40.0	ca. 40.0	ca. 60.0
<b>Order no.</b>		<b>50183</b>	<b>50184</b>	<b>50185</b>



## PROFISKIM 100

Leaves, pollen, and particles deposited on the water surface by wind are a risk to the biological equilibrium in a body of water. OASE skimmers powerfully and effectively pull these pollutant particles off of the surface and into the collection basket. Thus pollutants can be removed from the eco system of the body of water before they harm the eco system.

ProfiSkim 100 for water surface cleaning spares you the bothersome task of mechanically cleaning surface pollutants. This stationary skimmer is impressive with an easy-to-operate cleaning unit and generously dimensioned 12-litre collection basket. ProfiSkim 100 can even be implemented with a water depth of 35 cm.

### Product characteristics at a glance

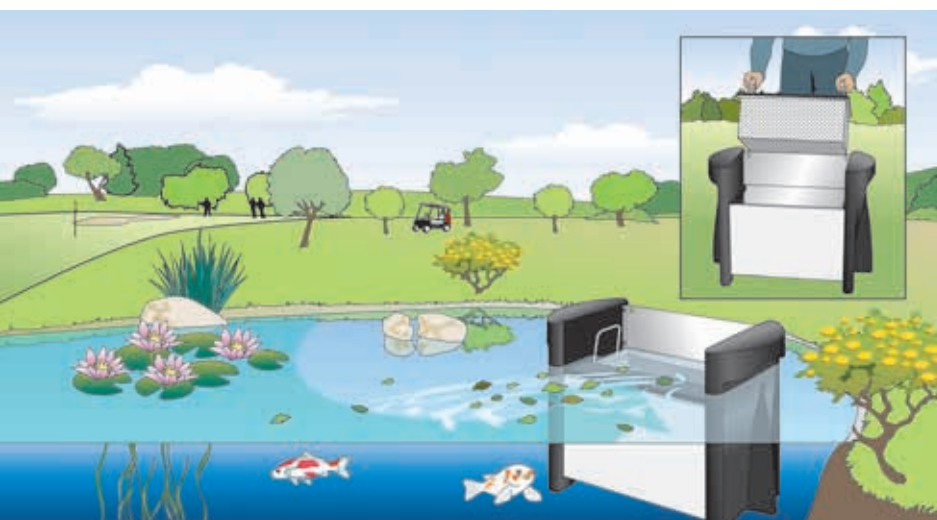
- Function-optimised float ring for improved performance
- Large cross section enables 8000 to 12500\* l/h water flow in gravitation systems and 8000 to 20000 l/h for pumped systems
- Ideal in conjunction with an Aquamax Eco 16000
- Stainless-steel filter basket with enlarged mesh width of 8 mm for longer service life and more convenient cleaning
- Ideal for shallow water zones

\* Limited through DN100 pipe connection



ProfiSkim 100	
Pedestal footprint (L x W)	780 x 585 mm
Height min.	350 mm
Height max.	530 mm
Installation depth max.	530 mm
Connection	DN 100
Pipe reduction	2"
Recommended flow rate (Gravitation)	8000 – 12500 l/h
Recommended flow rate (pumped)	8000 – 20000 l/h
Filter basket volume	12.0 l
Max. pond surface	80 m <sup>2</sup>
Weight	13.5 kg
Guarantee	3 + 2 = 5 years
Order no.	57134





## SKIMMER 250

Skimmer 250 is a high-performance floating skimmer that keeps up to 250 m<sup>2</sup> of surface water clean. The floating skimmer is particularly well suited for bodies of water with significant water level fluctuation, and it can be flexibly implemented where pollutants accumulate. The system takes up pollutants via a skimmer flap that is 52 cm in width. Pollutants are gathered into an easy-to-remove collection basket for convenient disposal. The integrated, energy-efficient circulation pump ensures powerful skimming and generates ideal water flow thanks to focused water return.

### Product characteristics at a glance

- Now even more stable thanks to foamed-out drive body
- Ideal water level adjustment through float design
- 52 cm wide skimmer flap for optimum skimmer performance
- Integrated pump
- Extremely long service life due to canned motor technology without seals that are subject to wear
- 27-litre stainless steel pollutant collection basket
- High-quality workmanship with stainless steel components
- Fastening material included in the scope of delivery
- 2 year guarantee



Skimmer 250	
Dimensions (L x W x H)	775 x 400 x 590 mm
Skimmer opening width	520 mm
Basket size (L x W x H)	510 x 310 x 190 mm
Filter basket volume	27.0 l
Rated voltage	220 - 240 V / 50 Hz
Power consumption (pump)	250 Watt
Litres per minute max.	250 l/min.
Litres per hour max.	15000 l/h
Pressure-side connection	1 1/2"
Filter surface	4500 cm <sup>2</sup>
Suitable for ponds up to	250 m <sup>2</sup>
Minimum water depth	650 mm
Weight	27.0 kg
Cable length	10.0 m
Order no.	57480



## WATER ANALYSIS SET

The first step to a healthy, biologically balanced-pond: The **Water Analysis Set** is a professional-laboratory test especially for larger bodies of water.

How it's done: The set contains a 0.5 l sample vessel plus shipping box to send in the water sample, a booklet with substantial informations on water quality and a Nitrite/Nitrate and Ammonium quick test with test strips.

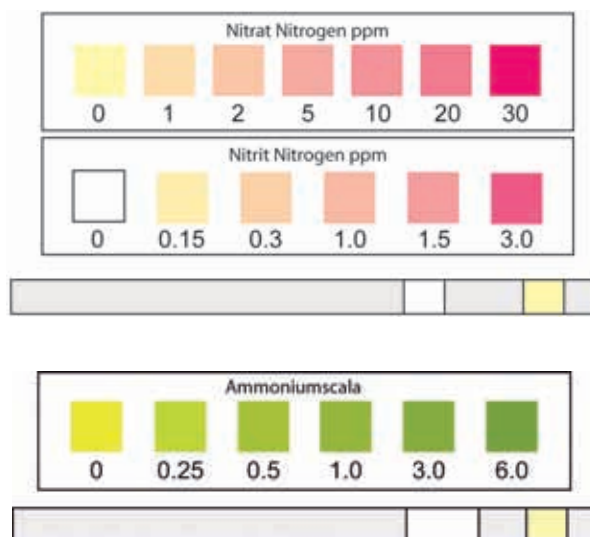
This is important because variations of these values require immediate actions.

After having taken the sample, you are asked to fill in all relevant data on your water body as well as your contact data incl. email address into the diagnosis sheet, put it into the shipping box and send it to our test laboratory in Germany (n.b. OASE does not bear any shipping costs). You will receive the test results by email within 6 working days after the sample is received.

### Values tested in the laboratory

Measurement	Range	Execution
Phosphate	0.01 – 1.5 mg/l P04-P	photometric
Total hardness	1 – 20°d	photom. or titrim.
Carbonate hardness CH	1 – 15°d	photom. or titrim.
pH value	0 – 14	pH electrode
Conductivity	0 – 200.000 µS	Conductivity electrode

### Quick test performed after having taken the sample Nitrite/Nitrate, Ammonium



### Water Analysis Set

- Sample vessel 0.5l
- One Nitrite and one Nitrate test strip (2 small test pads)
- One ammonium test strip (1 big and 1 small test pad)
- Quick test tube
- Shipping box
- Diagnosis form
- Booklet with substantial informations on water quality

Order no.

50270





## PHOSLESS

Excessive algae growth is always based on over fertilisation of the artificial lake or pond with nutrients. The most important nutrients that can limit algae growth in bodies of water are phosphorous and nitrogen. When one of these nutrients is reduced to such an extent that it is no longer available to the algae in sufficient quantity, then algae can no longer multiply. OASE Phosless was developed to remove excess phosphates from the body of water and thus effectively prevent algae growth.

Phosless is a mineral product that reduces algae growth by binding excess phosphates. In addition it binds toxic heavy metals, such as copper, lead, and sulphide which is toxic to fish. Phos-

less is shipped in a combination pack that includes one bag of Phosless CA and one bag of Phosless FS.

The use of two different materials is ideal because the binding mechanisms for phosphate are extremely complex and they can be prevented by competing reactions with other ions, low oxygen content, or low pH values. The content of the bags can be introduced wherever it can be carried away by moving water.

### Product characteristics at a glance

- **30 l Phosless: 15 combination packs, each with one 1 l bag of Phosless CA and one 1 l bag of Phosless FS**
- **Phosless CA:** white, porous calcium mineral that is used to bind phosphates and heavy metals
- **Phosless FS:** brown, granular iron mineral and effectively binds phosphate and sulphide
- **Sufficient for 600000 litre/160000 gallons of water with an initial concentration of up to 1.25 mg phosphate per litre of water**



#### Phosless

30 l of Phosless are sufficient for bodies of water to a volume of 600,000 l.

Order no.

57477

## Tip

If a layer of silt has already formed on the bottom of the lake or pond, we recommend supplemental application of **Ground Clear** (see page 45) high-performance cultures that break down silt. Use the **Air Flo** (see page 38) to ensure an adequate supply of oxygen.



## » BACTO PLUS « – STARTER BACTERIA

OASE Bacto Plus is a natural treatment comprised of micro organisms and valuable growth promoters. We recommend using it in combination with OASE Aqua Air aeration technology; with an oxygen supply the Bacto Plus cultures achieve a particularly good and long-lasting effect in all natural and artificial shallow bodies of water. High nutrient input is compensated and algae growth is inhibited. Use Bacto Plus to restore the natural regenerative power of the water in a short time and to prevent imbalance. The starter bacteria settle on all surfaces in the body of water, as well as on all filter material,

which guarantees a sustainable effect. Dead biomass and protein decomposition products such as ammonium, ammonia, and nitrite are sustainably and effectively broken down.

**Product characteristics at a glance**

- Biological self cleaner for blocking algae and treating water
- Biologically neutralises hazardous compounds that occur due to fermentation processes, through bacteria
- 500 ml measuring cup for easier dosing included in the scope of delivery

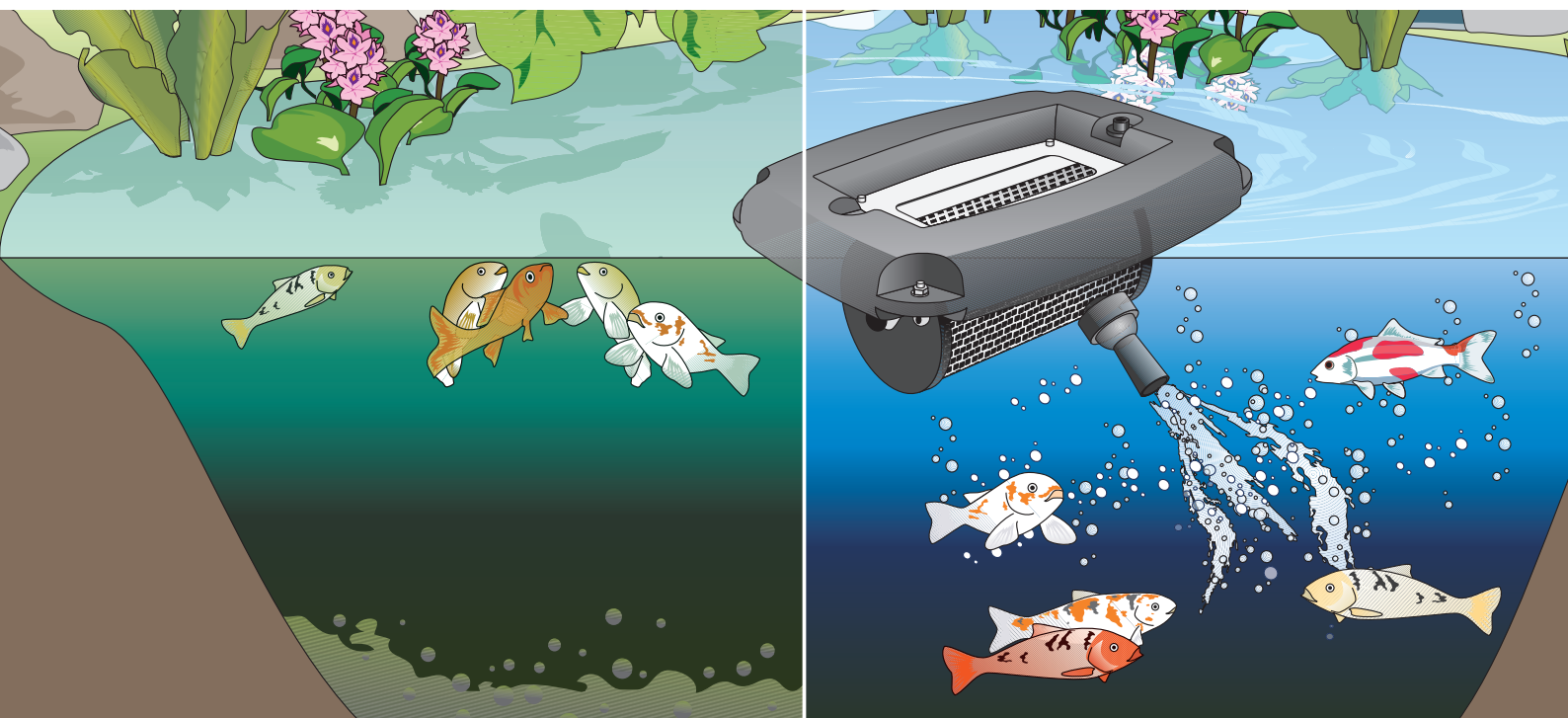
**Bacto Plus**

10 l bucket  
for 250000 litres water volume

Order no.

57475





## »GROUND CLEAR« – SILT REMOVER

Sanitising silted up bodies of water is cost intensive and labour intensive. Moreover dredging destroys valuable habitat and causes field damage. Use bacteria instead of dredging, this is the solution OASE offers for artificial lakes and ponds that are silted up. Ground Clear is a solution with especially cultured high-performance bacteria that efficiently and sustainably reduce the pond floor silt. The prerequisite for high-level bacterial efficiency is an adequate oxygen supply and stirring up the silt in the water. The OASE Aqua Air 250 aerator is particularly well suited in this regard.

The natural micro organisms and growth promoters for the bacteria generate a so-called turbo effect, and thus are able to much more quickly break down large quantities of silt and dead biomass. Organic components are broken down into carbon dioxide, nitrogen and water. Bacto Plus, which decomposes nitrogen, is recommended as a support for these cultures.

### Product characteristics at a glance

- Transforming organic silt via special high-performance bacteria
- Clean without replacing water/dredging
- Focused prevention of silt, long-term turbidity, and algal bloom
- 500 ml measuring cup for easier dosing included in the scope of delivery

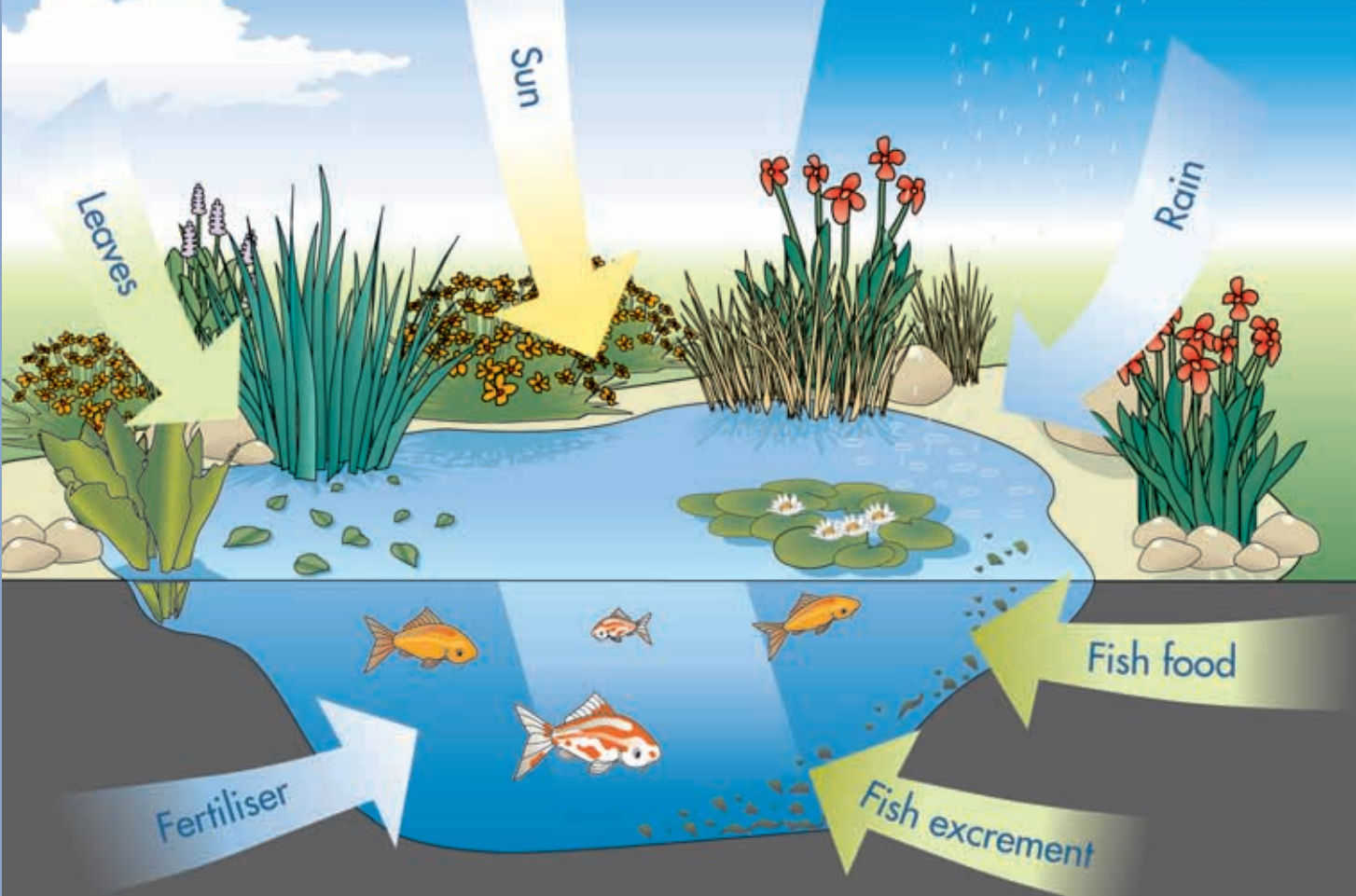


#### Ground Clear

10 l bucket  
for 250000 litres water volume

Order no.

57476



STRING ALGAE CONTROL DIRECT

Direct treatment in watercourses or larger ponds.

The new OASE String Algae Control acts by rapidly releasing the active oxygen in the water, which destroys even the most stubborn string algae. The dead algae can be removed from the pond within a short time. Algae remains are reliably decomposed by the microorganisms contained in the product and at the same time the oxygen concentration

in the water is increased. Thus vital pond inhabitants are ensured. The scope of delivery includes a pH/GH quick test for easy and safe verification of water values before the application.

Product characteristics at a glance

- For focused elimination of string algae
- Algae die off within a short time
- Especially suited for watercourses and large ponds
- Dissolves completely in water

Use algicides safely. Always read the label and product information before using. Harmful

Not available in the UK.



String Algae Control Direct	500g	5kg
Container [kg]	0.5	5.0
Body of water volume [l]	10000	100000
Container	Bottle	Bucket
Packaging unit	6	2
Order no.	50458	50459





## HARDNESS PLUS

Low-carbonate water (rain water) or exhausted water often tends to have significantly fluctuating pH values.

The problems due to strong algae growth and the associated withdrawal of carbon dioxide are greater particularly during the warmer season.

Hardness Plus stabilises the calcium/carbonic balance in low-carbonate bodies of water and thus prevents greater pH value fluctuations.

### Product characteristics at a glance

- Increases the carbonate hardness in exhausted water
- Treats soft well water or rain water for filling
- Stabilises the calcium/carbonic acid balance and buffers the pH value



#### Hardness Plus

5 l bucket  
for 50000 litres water volume

Order no.

36656

Tip

The Bitron 110 C is the ideal clarifier for the Biotec Screenmatic 36 filter.

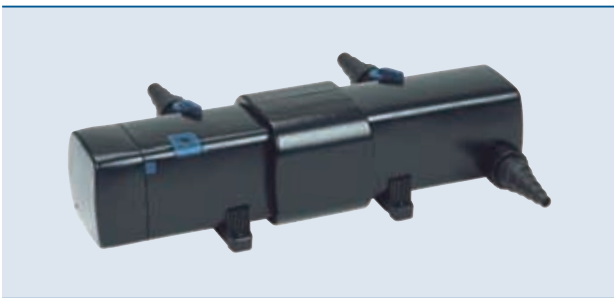


BITRON 110 C

The Bitron 110 C effectively reduces algae and the number of pathogens and bacteria in the body of water and thus consistently ensures clear and healthy water.


Product characteristics at a glance

- Well thought-out bypass technology for custom water flow adjustment on the UVC device enables optimum adaptation to the connected filtration pump
- Automatic and permanent bulb cleaning function sustainably ensures full efficiency of the UVC light source
- Integrated magnets protect the pond technology that is implemented (including pump and filter) from aggressive calcium deposits.
- Indicator light for visual monitoring of device function



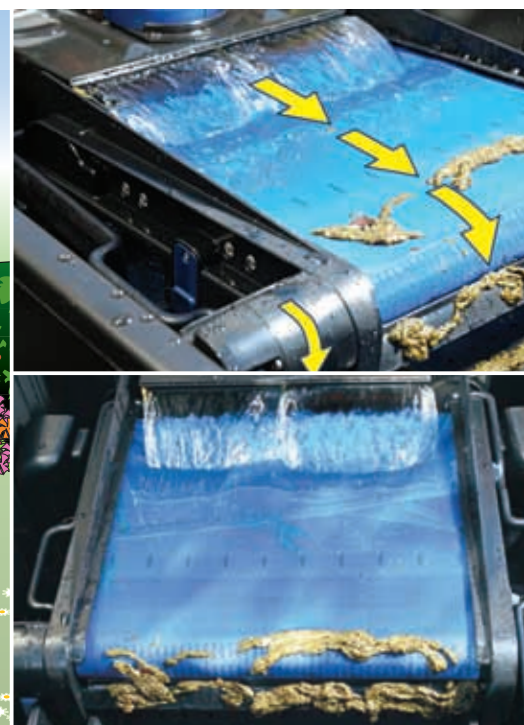
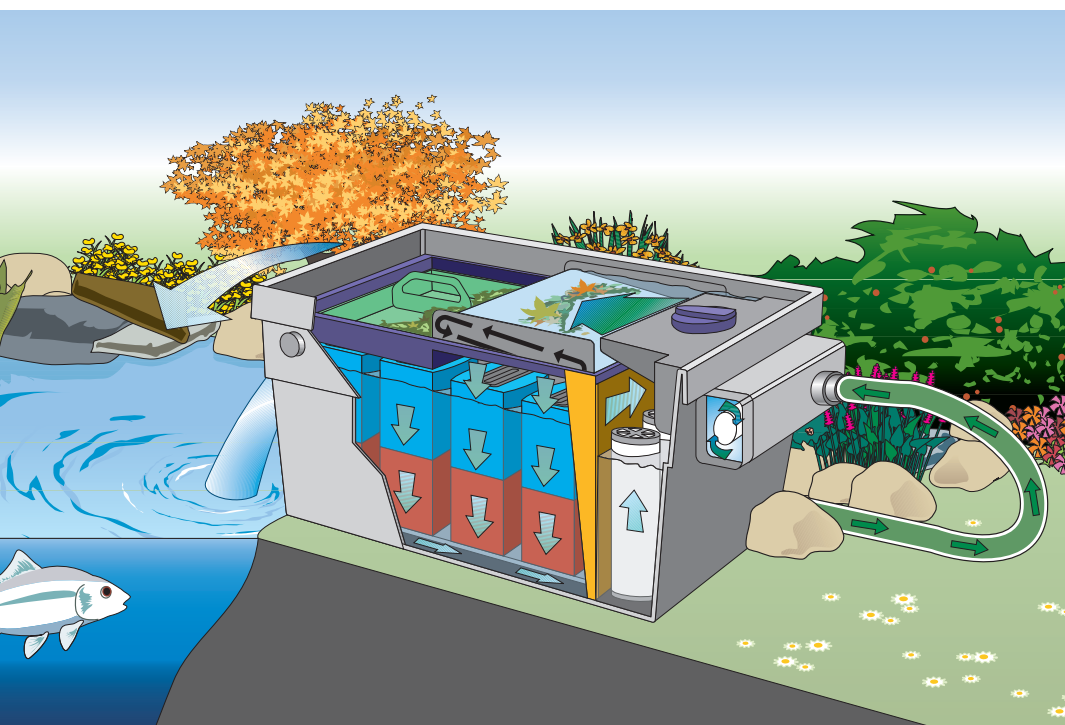
- High-quality workmanship in impact resistant plastic
- Quick-lock technology for easy bulb replacement, no tools required

Accessories (must be ordered separately)

	
Replacement bulb for Bitron 110 C	
Bitron 55 W	
2 bulbs are required for complete configuration.	
Order no.	56636

Bitron 110C	
Dimensions (L x W x H)	731 x 216 x 201 mm
Rated voltage	220-240 V/50-60 Hz
Inlet stepped hose adapter	3/4" to 2"
Outlet (2x)	1" to 1 1/2"
Visual function check	Indicator light
Connection to	Proficlear module filter/Biotec Screenmatic 36
Operating pressure max.	1.0 bar
Suitable pump capacity max.	40000 l/h
Power consumption	110 W
Flow-through UVC, without bypass	12000 l/h
Cable length	5.0 m
Order no.	56902





## BIOTEC SCREENMATIC 36

The biological-mechanical filtration function in tandem with outstanding technology for extracting coarse pollutants guarantee clear and healthy water with low maintenance.

### Product characteristics at a glance

- Effective, mechanical and safe extraction of coarse pollutants, and thus significantly longer service life
- Collection tanks for simple removal of extracted coarse pollutants
- Extractor sieve is cleaned automatically

- Optimum growth of filter biology thanks to different filter media with extensive settlement surfaces

### Accessories (must be ordered separately)



Spiral hoses, green with black -spirals (pressure: 6 bar)

- Frost-resistant and UV-resistant
- Good sinking characteristics
- Temperature-resistant to + 60 °C
- Heavy-metal free – guaranteed

### Spiral hoses

1 1/2"	25 m length	Order no. 52981
2"	20 m length	Order no. 36500

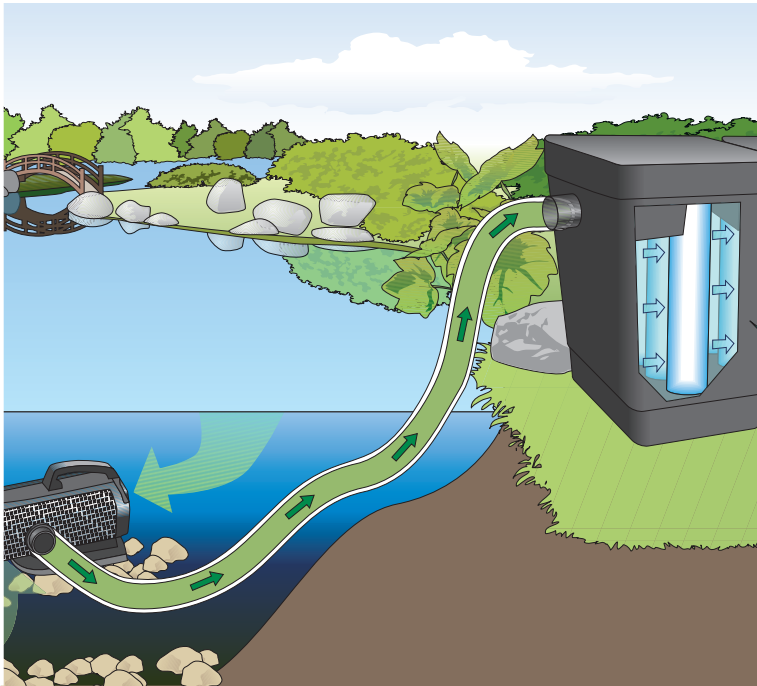
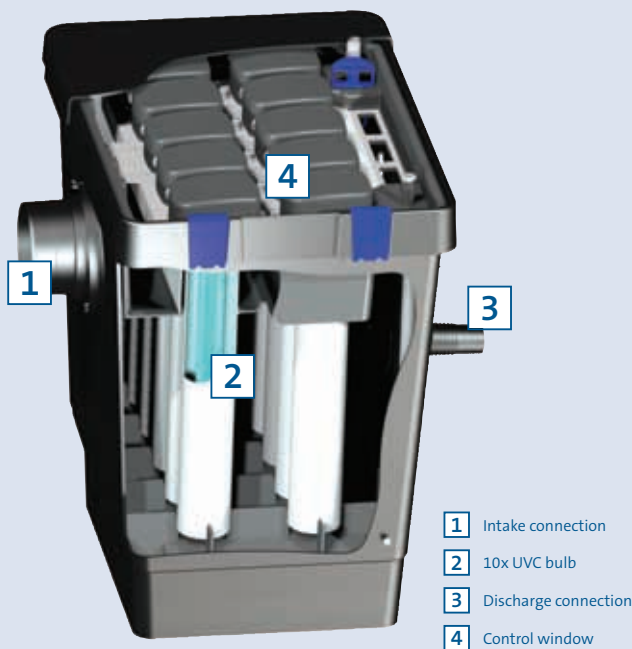
### Replacement filter sponges

for Biotec 36 Screenmatic	red	Order no. 56736
for Biotec 36 Screenmatic	blue	Order no. 56737



### Biotec Screenmatic 36

Dimensions (L x W x H)	1200 x 800 x 760 mm
Flow rate max.	23000 l/h
Inlet stepped hose adapter	2 x 1" to 1 1/2"
Outlet	100 mm
Number of blue filter sponges	18
Number of red filter sponges	18
Special granulate	18.0 kg
Coarse pollutant extraction	300 µm
Suitable for ponds with fish stock	70 m³
Suitable for ponds to max.	140 m³
Weight	90 kg
Order no.	57129



## BITRON 550

The innovative UVC technology consistently ensures clear and healthy water. The clarifiers effectively reduce algae and the number of pathogens and bacteria in the artificial pond or lake.

The Bitron 550 is a powerful 550 watt UVC clarifier that is used to reduce suspended algae and pathogens in bodies of water to 250 m<sup>3</sup> in volume. Due to the low flow speed relative to UVC performance the displaced water is freed from suspended algae and germs in a particularly effective manner.



### Product characteristics at a glance

- 10 x 55 watt UVC power output
- Premium GFK housing
- Control window for each UVC bulb
- Stainless steel reflectors increase UVC efficiency
- Up to 20,000 litres flow-through volume
- Versatile connection possibilities

### Accessories (must be ordered separately)

	
Replacement bulb for Bitron 550	
Bitron 55 W	
10 bulbs are required for complete configuration.	
Order no.	56636

Bitron 550	
Dimensions (L x W x H)	790 x 675 x 815 mm
Rated voltage	220 - 240 V/50 - 60 Hz
Power consumption	550 W
Recommended flow rate	15000 l/h
Flow rate min.	5000 l/h
Flow rate max.	20000 l/h
Bulbs	10 x 55 W
Pressure side connection	2" / DA 63 / DN 100
Discharge	DN 100 / DN 150
For bodies of water to max.	250 m <sup>3</sup>
Weight	87.5 kg
Cable length	10.0 m
Order no.	57478



## PROFICLEAR MODULE FILTERS M1 – M5

Whether large volume swim pond or koi pond – the OASE Proficlear module filter satisfies the requirements for outstanding water quality at all times. Individually extensible and fitted with a wide variety of filter media, the system guarantees clean and healthy water, with maximum operating convenience and minimum maintenance.

### Product characteristics at a glance

- Modularly extensible filter system that satisfies the most rigorous water quality requirements
- Custom combination of different components
- Can be implemented in different pond sizes
- Can be implemented as a pump-fed version as well as a gravitation filter.
- Coarse pollutant extraction with automatic cleaning
- Easy system maintenance thanks to cleaning handles and sludge drains in each filter chamber
- Made of high-quality, impact-resistant GFK

Without fish stock					
Single-row configuration					
Module	+ Bitron 110 C		+ Bitron 550 *		
	Pond volume		Pond volume	Pond volume	Pond volume
M1+M2+M3	= 40 m <sup>3</sup>	+M5	= 55 m <sup>3</sup>	= 50 m <sup>3</sup>	+M5 = 70 m <sup>3</sup>
M1+M2+M3+M3	= 60 m <sup>3</sup>	+M5	= 75 m <sup>3</sup>	= 75 m <sup>3</sup>	+M5 = 95 m <sup>3</sup>
M1+M2+M3+M3+M4	= 80 m <sup>3</sup>	+M5	= 95 m <sup>3</sup>	= 100 m <sup>3</sup>	+M5 = 120 m <sup>3</sup>
M1+M2+M3+M3+M4+M4	= 100 m <sup>3</sup>	+M5	= 115 m <sup>3</sup>	= 130 m <sup>3</sup>	+M5 = 150 m <sup>3</sup>
Double-row configuration					
Module	Pond volume		Pond volume	Pond volume	Pond volume
M1+M2+M3 M2+M3	= 80 m <sup>3</sup>	+M5 +M5	= 110 m <sup>3</sup>	=100 m <sup>3</sup>	+M5 +M5 = 140 m <sup>3</sup>
M1+M2+M3+M3 M2+M3+M3	= 120 m <sup>3</sup>	+M5 +M5	= 150 m <sup>3</sup>	=150 m <sup>3</sup>	+M5 +M5 = 190 m <sup>3</sup>
M1+M2+M3+M3+M4 M2+M3+M3+M4	= 160 m <sup>3</sup>	+M5 +M5	= 190 m <sup>3</sup>	=205 m <sup>3</sup>	+M5 +M5 = 245 m <sup>3</sup>
M1+M2+M3+M3+M4+M4 M2+M3+M3+M4+M4	= 200 m <sup>3</sup>	+M5 +M5	= 230 m <sup>3</sup>	=260 m <sup>3</sup>	+M5 +M5 = 295 m <sup>3</sup>

With fish stock (For heavily stocked fish or koi ponds, the values given below should be halved)					
Single-row configuration					
Module	+ Bitron 110 C		+ Bitron 550 *		
	Pond volume		Pond volume	Pond volume	Pond volume
M1+M2+M3	= 20 m <sup>3</sup>	+M5	= 30 m <sup>3</sup>	= 25 m <sup>3</sup>	+M5 = 35 m <sup>3</sup>
M1+M2+M3+M3	= 30 m <sup>3</sup>	+M5	= 40 m <sup>3</sup>	= 35 m <sup>3</sup>	+M5 = 50 m <sup>3</sup>
M1+M2+M3+M3+M4	= 40 m <sup>3</sup>	+M5	= 50 m <sup>3</sup>	= 50 m <sup>3</sup>	+M5 = 65 m <sup>3</sup>
M1+M2+M3+M3+M4+M4	= 50 m <sup>3</sup>	+M5	= 60 m <sup>3</sup>	= 65 m <sup>3</sup>	+M5 = 75 m <sup>3</sup>
Double-row configuration					
Module	Pond volume		Pond volume	Pond volume	Pond volume
M1+M2+M3 M2+M3	= 40 m <sup>3</sup>	+M5 +M5	= 60 m <sup>3</sup>	= 50 m <sup>3</sup>	+M5 +M5 = 75 m <sup>3</sup>
M1+M2+M3+M3 M2+M3+M3	= 60 m <sup>3</sup>	+M5 +M5	= 80 m <sup>3</sup>	= 75 m <sup>3</sup>	+M5 +M5 = 100 m <sup>3</sup>
M1+M2+M3+M3+M4 M2+M3+M3+M4	= 80 m <sup>3</sup>	+M5 +M5	= 100 m <sup>3</sup>	=100 m <sup>3</sup>	+M5 +M5 = 125 m <sup>3</sup>
M1+M2+M3+M3+M4+M4 M2+M3+M3+M4+M4	= 100 m <sup>3</sup>	+M5 +M5	= 120 m <sup>3</sup>	=125 m <sup>3</sup>	+M5 +M5 = 150 m <sup>3</sup>

\* can only be used as pump-fed system

#### Rule of thumb!

Ponds without fish:

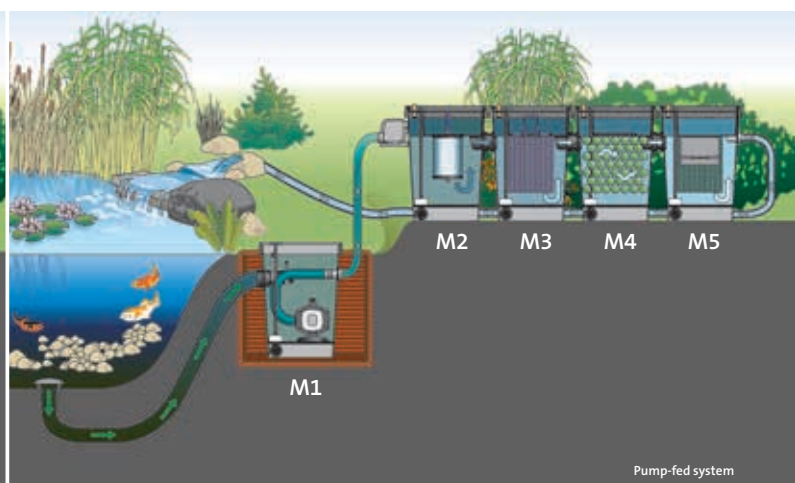
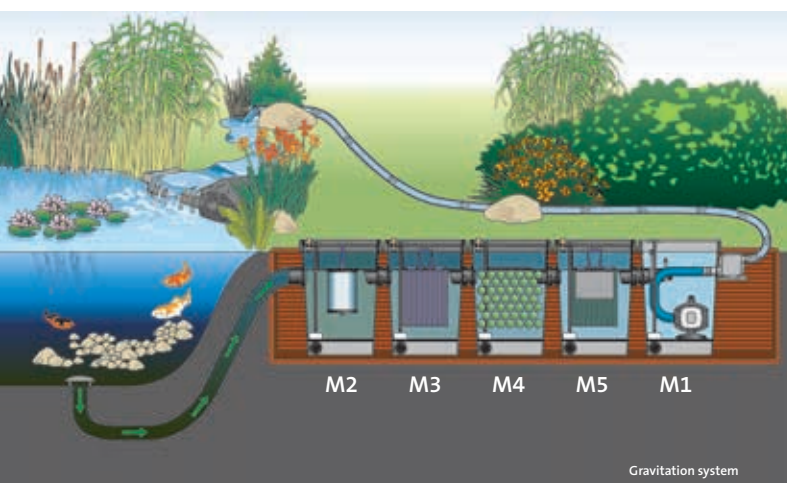
Ponds with fish (no koi):

Ponds with large fish stock or koi:

1 W UVC power per 1000 l pond volume

2 W UVC power per 1000 l pond volume

4 W UVC power per 1000 l pond volume



## PROFICLEAR M1 TO M5. THE MODULES IN DETAIL.

The Proficlear modular filter system is impressive through innovative technology, high-quality workmanship, and simple operation.

The modular system enables individual configuration of any filtering system oriented to the needs of your customers. Whether koi pond, or large swim pond – we offer the custom-tailored solution for clear and healthy water.

### Accessories (must be ordered separately)



#### Proficlear Screendrive

**NEW: With enhanced stainless steel engine.**  
Takes over regular and automatic cleaning of the coarse debris extractor in the Proficlear M2.

Dimensions (L x W x H)	700 x 230 x 120 mm
Rated voltage	230V/50 Hz, 12 V/DC
Cable length primary/secondary	2 m/5 m
Power consumption	4.5 Watt
Guarantee	2 years
Order no.	57094



#### Proficlear bottom drain BD 100

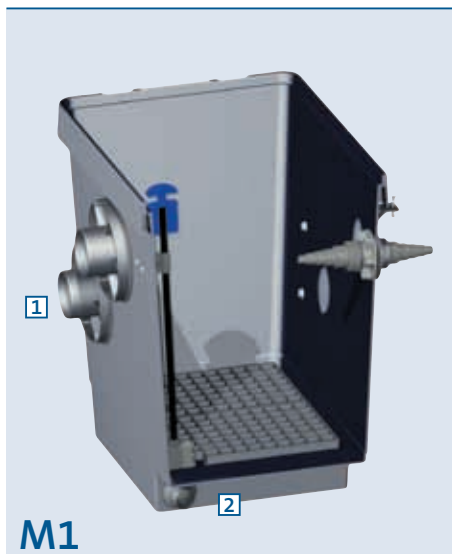
Dimensions Ø	380 x 290 mm
Connection	DN 100
Order no.	37143

#### Replacement filter sponges

Proficlear M3, blue/10 ppi wide	26983
Proficlear M3, blue/10 ppi narrow	26984
Proficlear M3, red/30 ppi	27295
Proficlear M5, black/45 ppi narrow	27296
Proficlear M5, black/45 ppi wide	27297

#### Replacement Phosless filter media tubes

For Proficlear M5	36981
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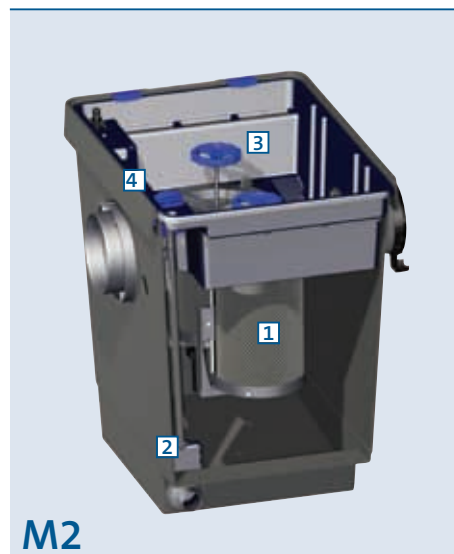


**M1**

### PROFICLEAR M1 – PUMP CHAMBER

Whether gravitation principle or pump-fed system – the Proficlear M1 pump chamber ensures optimal pump position.

- Reduction of pressure losses.
- Safe and standard-conformant setup for swim ponds.
- Simple maintenance and winter care.
- Protection against excessive silt.
- Two inlets **1** including regulator for custom adjustment of the intakes
- In the sediment tank accumulated pollutants are flushed out via the sludge drain **2**.



**M2**

### PROFICLEAR M2 – COARSE DEBRIS EXTRACTOR

Enables easy mechanical extraction of solids up to 300 µm in size.

- Incoming water is fed via two large-surface extraction sieve **1** into the next filter chamber.
- Pull the slide valve **2** to flush out pollutants via a DN 50 discharge, optionally supported by rinsing via cleaning nozzles.
- The extraction sieves can be quickly cleaned with interior and exterior brushes by operating the cleaning handles **3**.
- A pollutant indicator **4** signals when maintenance is required.
- Automatic and regular cleaning is possible via the Proficlear Screendrive

(see accessories)!

The housings of all five modules are made of high-quality Duroplast  
**Guarantee + Request Guarantee 2 + 1 = 3 years**

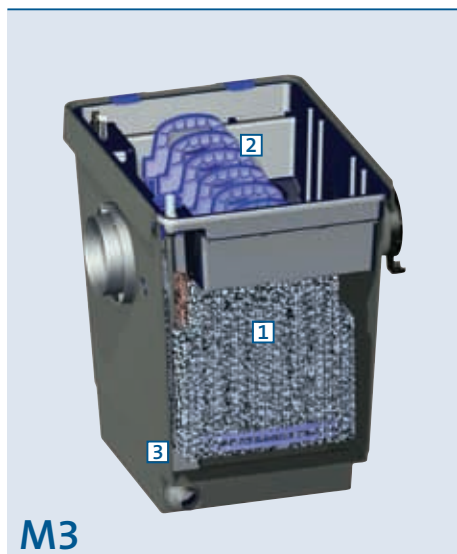
#### Proficlear M 1 – pump chamber

Dimensions (L x W x H)	800 x 600 x 800 mm
Inlet Ø	2 x DN 100
Outlet Ø	2 x 50 mm
Hose connection for the outlets	1" to 2"
Pollutant discharge Ø	DN 50
Order no.	56897

#### Proficlear M 2 – coarse debris extractor

Dimensions (L x W x H)	800 x 600 x 800 mm
Number of sieves	2
Inlet Ø	1 x DN 100/DN 150 + 2x 50 mm
Outlet Ø	1 x DN 100/DN 150
Pollutant discharge Ø	DN 50
Max. flow rate	12,500 l/h
Order no.	37108



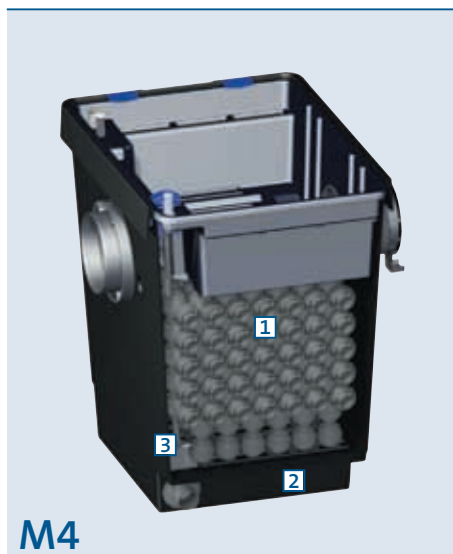


**M3**

#### PROFICLEAR M3 – FILTER FOAM MODULE

Reliably removes toxins such as ammonium/ ammonia or nitrite.

- Water is channelled through the coarse and fine foams **1** that contain the important filter biology.
- The oxygen necessary for the nitrification processes is supplied via connections on the housing.
- To clean, use the cleaning levers **2** to compress the foams against the intermediate floor.
- Pull the slide valve **3** to flush out contaminants via a DN 50 discharge, optionally supported by rinsing via cleaning nozzles.

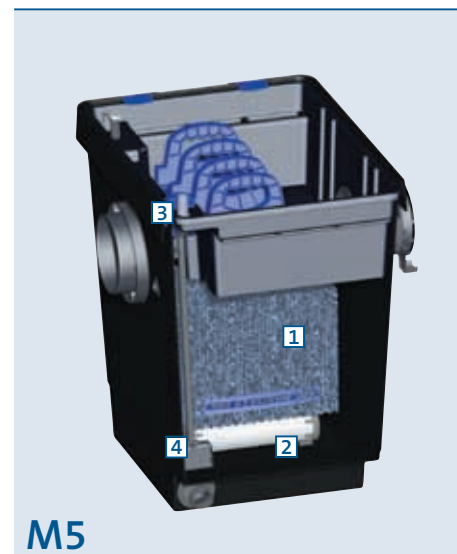


**M4**

#### PROFICLEAR M4 – BIOBALLS FILTER MODULE

The design of the Bioballs M4 filter module is based on the latest scientific findings.

- The Bioballs **1** with especially designed flow control offer an over-proportional filter surface and are forced directly against the intermediate floor by the water current.
- Necessary oxygen supply is ensured through an external connection.
- The pollutants on the floor of the sediment tank **2** are flushed out when the slide valve is pulled **3** supported by the cleaning nozzles.
- The highly developed Bioballs are maintenance-free due to permanent rotation inside the system.



**M5**

#### PROFICLEAR M5 – PHOSPHATE BINDER MODULE

Converts nitrate into gaseous nitrogen (denitrification) and eliminates phosphates.

- A majority of the water volume is channelled past the filter foam **1**. This establishes the low oxygen milieu that is so important for the denitrifying bacteria.
- The lesser portion of the water flow volume is channelled through the Phosless inserts **2**.
- Binders ensure quick and safe phosphate deposition.
- Elimination of these nutrients significantly restricts string algae growth.
- Maintenance-free because bypass regulation in the foam prevents clogging.
- A pollutant level indicator **3** signals when maintenance is required.
- Pollutant discharge **4** incl. slide valve.

Proficlear M3 – filter foam module	
Dimensions (L x W x H)	800 x 600 x 800 mm
Filter foam volume	70 l
Number of filter foams	6
Inlet Ø	1 x DN 100/DN 150 + 2 x 50 mm
Outlet Ø	1 x DN 100/DN 150
Pollutant discharge Ø	DN 50
Max. flow rate	12,500 l/h
Order no.	37107

Proficlear M4 – Bioballs filter module	
Dimensions (L x W x H)	800 x 600 x 800 mm
Filter surface	30 m <sup>2</sup>
Inlet Ø	1 x DN 100/DN 150 + 2 x 50 mm
Outlet Ø	1 x DN 100/DN 150
Pollutant discharge Ø	DN 50
Max. flow rate	12,500 l/h
Order no.	37144

Proficlear M5 – phosphate binder module	
Dimensions (L x W x H)	800 x 600 x 800 mm
Number of filter media tubes/sponges	4/6
Inlet Ø	1 x DN 100/DN 150 + 2 x 50 mm
Outlet Ø	1 x DN 100/DN 150
Pollutant discharge Ø	DN 50
Max. flow rate	12,500 l/h
Order no.	37109

## SAND FILTER D600 / D800

**Efficient water filtration significantly extends the interval between necessary cleaning tasks in spray fountains, ponds, and other systems.**

The crystal quartz sand filter should be operated independently of and parallel to actual spray fountain and circulation technology. The filter can work during fountain operation, in periods when the fountain is not operating, or it can even work around the clock.

The filter system consists of a container made of fibre-glass reinforced plastic and a pump and a multi-port valve. Everything is compact and pre-mounted on a plastic pallet. The fill opening of the filter tank is sealed with a cover and an integrated manometer.

The tank is filled with crystal quartz sand or AFM filter medium and contaminated water is suctioned in by the pump. In the filter the water is forced through the filter material via an upper distributor with sieve and then it is fed back into the pool through a lower distributor with small open-seam pipe. If the filter

capacity is exhausted the filter is simply rinsed in reverse and the debris is discharged via the wastewater channel.

### Product characteristics at a glance

- Efficient, mechanical water filtration
- Extends the cleaning interval
- Environmentally-friendly mechanical filtration
- Pre-assembled, easy-to install unit comprised of filter, pump, and multi-port valve
- Easy to clean



### Accessories (must be ordered separately)

Crystal quartz sand	25 kg sack
Grain	0.4 – 0.8 mm
Order no.	53428

### NEW

AFM filter medium	25 kg sack
The activated filter material comes with catalytic and oxidizing characteristics. Resists biofilm accumulation and enhances the service interval.	
Grain	0.5 – 1.0 mm
Order no.	50433



Table with guide values for filter runtime control / maximum pool water contents at filter runtimes of:

Sand filter		D 600	D 800
<b>At low contamination level</b>			
Recirculations / day		2	2
9 hours / day	[m <sup>3</sup> ]	50	120
15 hours / day	[m <sup>3</sup> ]	70	200
24 hours / day	[m <sup>3</sup> ]	120	300
<b>At medium level of contamination</b>			
Recirculations / day		4	4
9 hours / day	[m <sup>3</sup> ]	30	60
15 hours / day	[m <sup>3</sup> ]	45	100
24 hours / day	[m <sup>3</sup> ]	60	150
<b>At high level of contamination</b>			
Recirculations / day		6	6
9 hours / day	[m <sup>3</sup> ]	20	40
15 hours / day	[m <sup>3</sup> ]	35	60
24 hours / day	[m <sup>3</sup> ]	50	100

Sand filter		D 600	D 800
Dimensions (LxWxH)	[mm]	1000 x 870 x 1100	1000 x 1000 x 1250
Filter tank with base & lid			
Filter tank diameter	[mm]	630	830
Filter surface	[m <sup>2</sup> ]	0.28	0.50
Recirculation capacity at 8 m wc	[m <sup>3</sup> /h]	13	25
Filter speed at 8 m wc	[m/h]	50	50
Reverse rinse speed	[m/h]	50	50
Reverse rinse duration	[min.]	ca. 2 – 4	ca. 2 – 4
Water requirement per reverse rinse	[l]	approx. 650 in 3 min.	approx. 1250 in 3 min.
Grain of the filter material	[mm]	0.4 – 1.0	0.4 – 1.0
Quantity of the filter material	[kg]	approx. 125	approx. 325
Max. operating temperature	[°C]	40	40
Max. operating pressure	[bar]	2.5	2.5
Suction line connection	[G]	2"	75 mm
Pressure line connection	[G]	1 1/2"	75 mm
Back wash connection	[G]	1 1/2"	2"
Nominal motor power	[kW]	0.65	1.3
Motor power consumption	[kW]	0.97	1.85
Nominal motor voltage	[V]/[Hz]	230/50	230/50
Nominal motor current	[A]	4.7	8.3
Motor protection class		IP x 4	IP x 4
Weight without sand	[kg]	40.0	72.0
Filter tank material		GFK (Polyester)	GFK (Polyester)
Pump material		PP TV 20/PP TV 40	PP GF 30/PP TV 40
Order no.		50431	50432

# CLEAR FOUNTAIN SYSTEM AND WATER TREATMENT

Spray fountain technology requires optimal water conditions: Ideal pH value, no algae and no germs are the basic prerequisites. We use proven means to achieve this end. OASE has developed a special product range of dosing equipment and accessories for trouble-free treatment.

## pH value (PHW-30)

Depending on the initial value the pH value of the water is maintained at a constant level of between 7.2 and 7.6 by the addition of acid or alkali. Dosing of the pH regulator is automatic.

## Germ-free status (ADR 90)

Germicidal products ensure a virtually germ-free status. Chlorine products that are often used for swimming pools are problematic as they corrode metals and have irritating odours. Germicidal agents based on hydrogen peroxide or silver oxide can be used as an alternative.

## Algae growth (ASS 100)

Unaesthetic algae growth in a fountain is usually controlled by adding an anti-algae agent.

### Product characteristics at a glance

- Hygienically, visually, and technically clean water
- Perfectly matched system components
- High-quality components from a single source
- Easy to handle

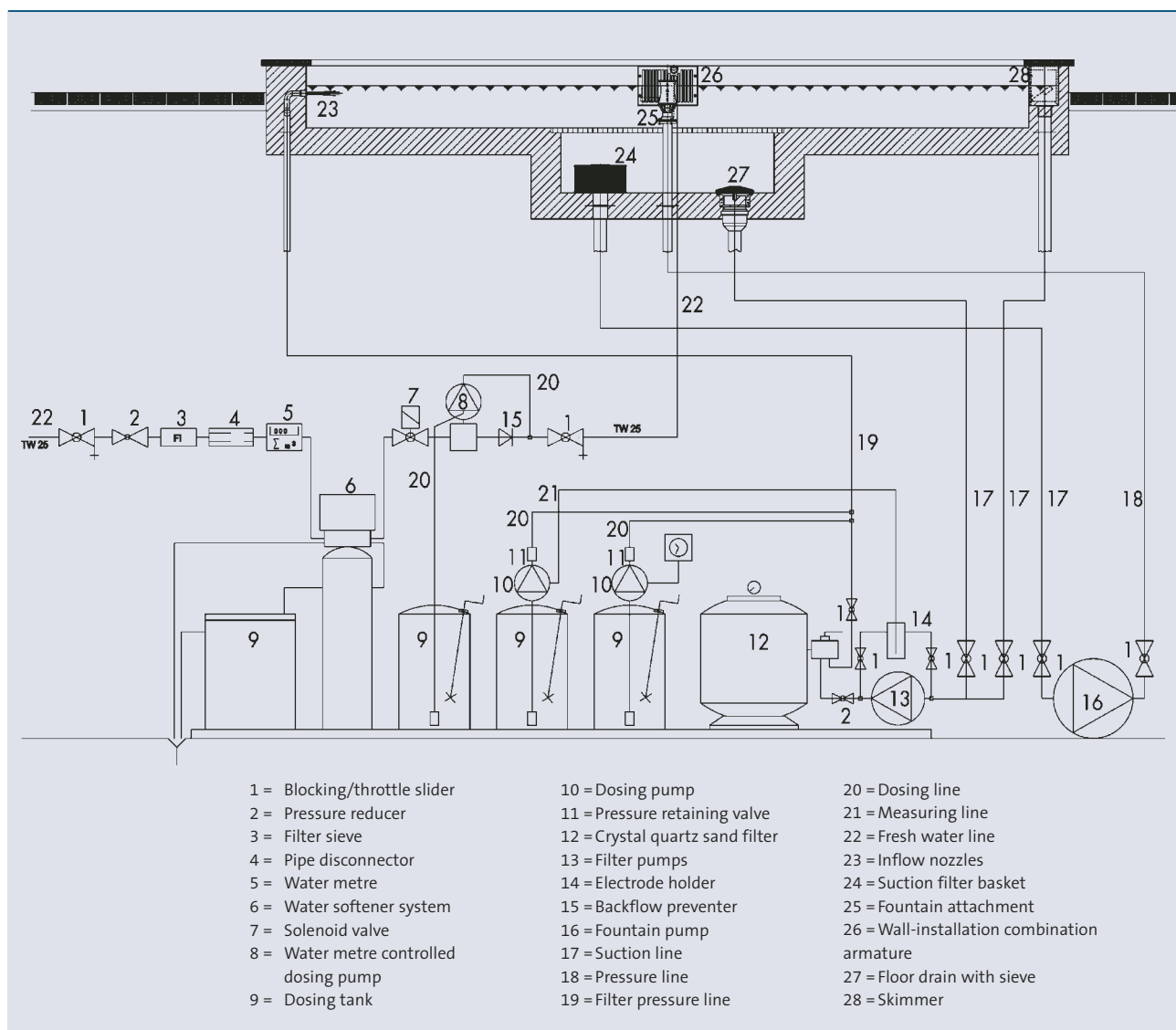
## CLEAR FOUNTAIN SYSTEM

**NEW**

- Simple, reliable system in industrial casing with dosing pumps and control instruments.
- Password protected programming with user-friendly display and console.
- Proportional dosing via frequency modulation.







## NEW



	Clear Fountain System	PHW 30	ADR 90	ASS 100 *
Dimensions (LxWxH) [mm]	900 x 300 x 500	380 x 280 x 400	380 x 280 x 400	200 x 200 x 400
Agent	compact dosing station	Sulphuric acid	Hydrogen peroxide	Ammonium chloride
Identification	—	Corrosive	Corrosive	Dangerous to the environment
Voltage [V/Hz]	100-240/50-60	—	—	—
Power consumption [W]	56	—	—	—
Litre	—	30.0	30.0	10.0
Weight [kg]	16.0	32.0	32.0	12.0
Order no.	50434	53091	56866	51093

\* Utilise algicides safely. Always read the instructions and identifications before applying algicides.



## CLEAR LAKE SYSTEM 500/5000/20000

**Clear Lake System stands for cost-efficient, safe and environmentally sound water treatment, which was developed for application in natural and near natural water bodies.**

A concentrated mixture of gas, called Di-Oxy-lyd, is produced from softened drinking water and salt. This gas destroys algae, kills bacteria and viruses, and thereby cleans and clears the water.

It is also applicable in private and public ponds and lakes, fish breeding plants, fountain systems and zoological and architectural water bodies and lakes.

### **The system consists of**

- Softener
- Storage tank for the regeneration salt
- Power unit (except for CLS 500)
- Electronic steering
- Membrane-electrolysis
- Special-ventilation for hydrogen-gas (except for CLS 500)
- Venturi injection unit (Bypass)

### **Product characteristics at a glance**

- Temperature controlled power units
- Control unit
- Display of the power output
- Potential free contact for external failure indicator
- Regulation of the cell-power 5% – 100%
- Automatic AirControl with emergency off (except for CLS 500)
- Special-ventilation for the hydrogen-gas (except for CLS 500)
- Electrolysis cells with titan-electrodes
- Low operation costs
- Compact design

### **Options** (must be ordered separately)

- Measurement System for the pH
- REDOX for the control unit

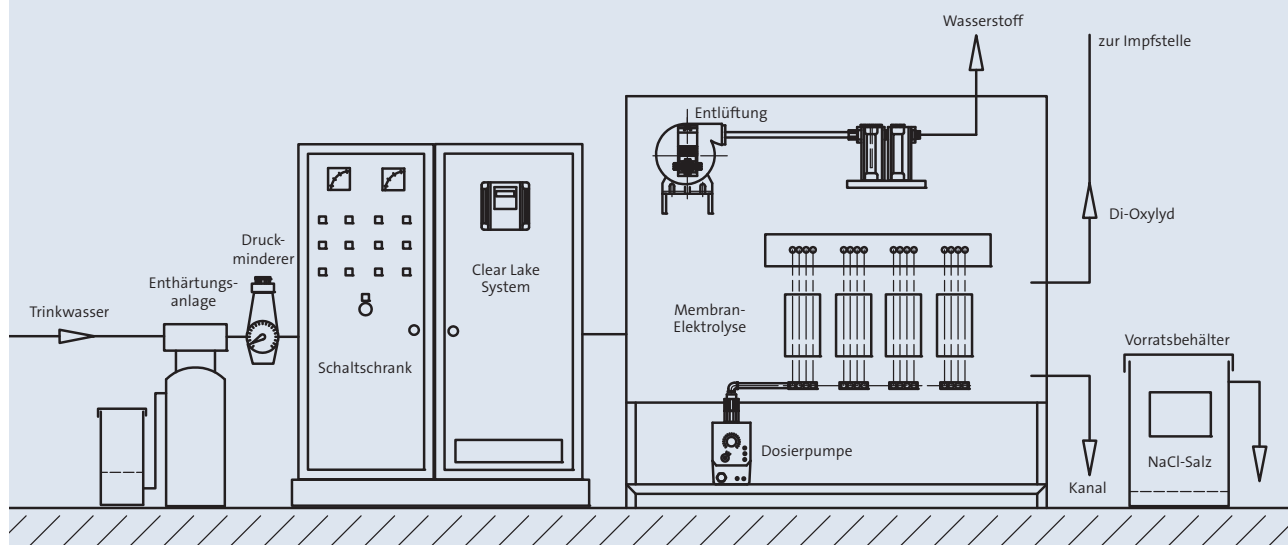
The technology complies with the Drinking Water Ordinance (TVO 2001), with DIN 19643, with the municipal health and safety regulations 8.15 (GUV) and with the Ordinance of Hazardous Substances §16, Chapter 2.



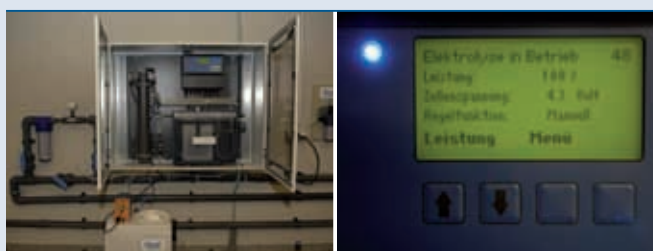
## INNOVATION – MADE BY OASE

**Schematic setup**

Example: CLS 20000

**NEW****Clear Lake System softener**

- Low-maintenance
- Regenerative
- Tap for soft water testing
- Performance-related magnetic valve
- Pressure reducer with manoscope and strainer



Example of use:

CLS 500

Display

Storage tank for the regeneration salt		CLS 500	CLS 5000	CLS 20000
Storage tank for the brine	[litre]	100	500	500
Brine-dosing pump	[l/h]	1.1 at 16 bar	12.3 at 4 bar	32 at 2 bar
Dimensions	[mm]	(L x W x H) 300 x 400 x 800	(ø x H) 380 x 860	(ø x H) 490 x 870

Clear Lake System		CLS 500	CLS 5000	CLS 20000
Power supply unit	[A/V]	40/5.5	2 x 60 /25	4 x 60 /50
Control by the measurement system	[mA]	0 – 20	0 – 20	0 – 20
Impulse entrance max.	[Imp./min]	120	120	120
Electrical power input max.	[KVA]	0.3	4	16
Voltage	[V/Hz]	230/50	400/50	400/50
Salt consumption of electrolysis cell	[kg/h]	0 – 0.25	0 – 1.0	0 – 4.0
Fresh water supply max.	[l/h]	20 – 60	180 – 500	500 – 2000
Produced amount of Di-Oxylyd max.	[l/h]	50	500	2000
3% of caustic soda solution (liquid waste)	[l/h]	3	12	48
Conditioning of water volumes up to	[cbm]	500	5000	20000
Total weight (incl. storage tank) ca.	[kg]	40	380	750
Dimensions CLS (W x H x D)	[mm]	1000 x 800 x 300	1600 x 1900 x 500	800 x 1900 x 500
Dimensions of the softener (ø x H)	[mm]	integrated	185 x 1180	210 x 1345
Mounting plate of electrolysis cells (W x H x T)	[mm]	–	–	2400 x 2000 x 650
Order no.		58960	58960	58960





# ATTRACTIVE DESIGN: FLOATING FOUNTAINS STAGE THE BODY OF WATER DAY AND NIGHT

WATER IN ITS MOST BEAUTIFUL FORM – FOUNTAINS ARE NOT ONLY AN ATTRACTIVE HIGHLIGHT FOR ANY BODY OF WATER, THEY ARE ALSO HEALTHY FOR THE BIOLOGICAL BALANCE

## OASE INNOVATION CENTER

**Location:** Hörstel  
Appealing design and  
functionality:  
The new MIDI/MAXI  
floating fountains.

*OASE reference object, left*

Floating fountains conjure up impressive water effects wherever standing aggregates are difficult to install: If there are fluctuating water levels, excessive water depths, or on muddy pond floors. Thanks to easy installation they can also be implemented on short notice, or the water pattern can be changed as desired.

The floating fountains stay on the surface without tipping, thanks to robust float elements. The foamed float element ensures ideal buoyancy of the floating fountains. Only the nozzle and the surface of the float element are visible; the technology remains concealed underwater.

Various easily interchangeable fountain nozzles are available for custom design of the water pattern of the floating fountains. LED illumination sets give the fountains a fascinating appearance in the evening hours.

OASE floating fountains make an additional contribution by enriching the oxygen in the body of water; a contribution toward the reduction of algae.



*Appealing design and functionality combined –  
with floating fountains from OASE.*

### • Floating fountains

Pond-Jet	page 62
Flexy Jet 6	page 64
Midi II/Maxi II	page 66
Fountain attachments	page 68
Illumination sets	page 70



Pond-Jet with Vulkan 37-2.5K | Pond-Jet with Pond-Jet-Nozzle

## POND-JET

Thanks to the Pond-Jet floating fountain pump, decorative fountains can easily and quickly be achieved without any complex installation.

Neither the depth of the water, nor a pond base that is very dirty or difficult to access are of significance here. Perfect for use at short notice.

### Product characteristics at a glance

- Ready-to-connect complete aggregate, consisting of pump, float element, and Pond-Jet-nozzle with 1"-thread
- Clearly structured fountain height and spray diameter of 3 metres
- Minimum water depth in clear water is 1 m; for a muddy pond floor the minimum depth is 1.5 m
- Lighting set and additional nozzle patterns are available as accessories
- 3 year guarantee

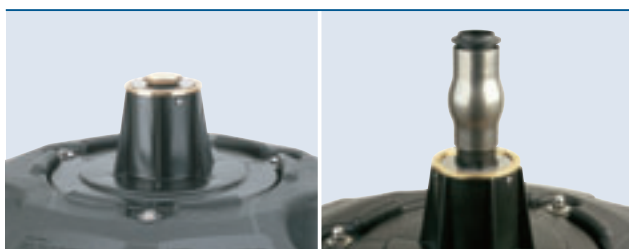


### Accessories (must be ordered separately)



Pond-Jet illumination set	
Lunaqua 10 with 50 W each	3 x
Stainless steel holder	3 x
Transformer 150 VA	1 x
Cable length	20.0 m
Order no.	57083





#### Pond-Jet-nozzle

with 1"-thread, cover and plug.

#### 1"-thread with nozzle

Here, as an example with a mounted Schaumsprudler 35-10E.

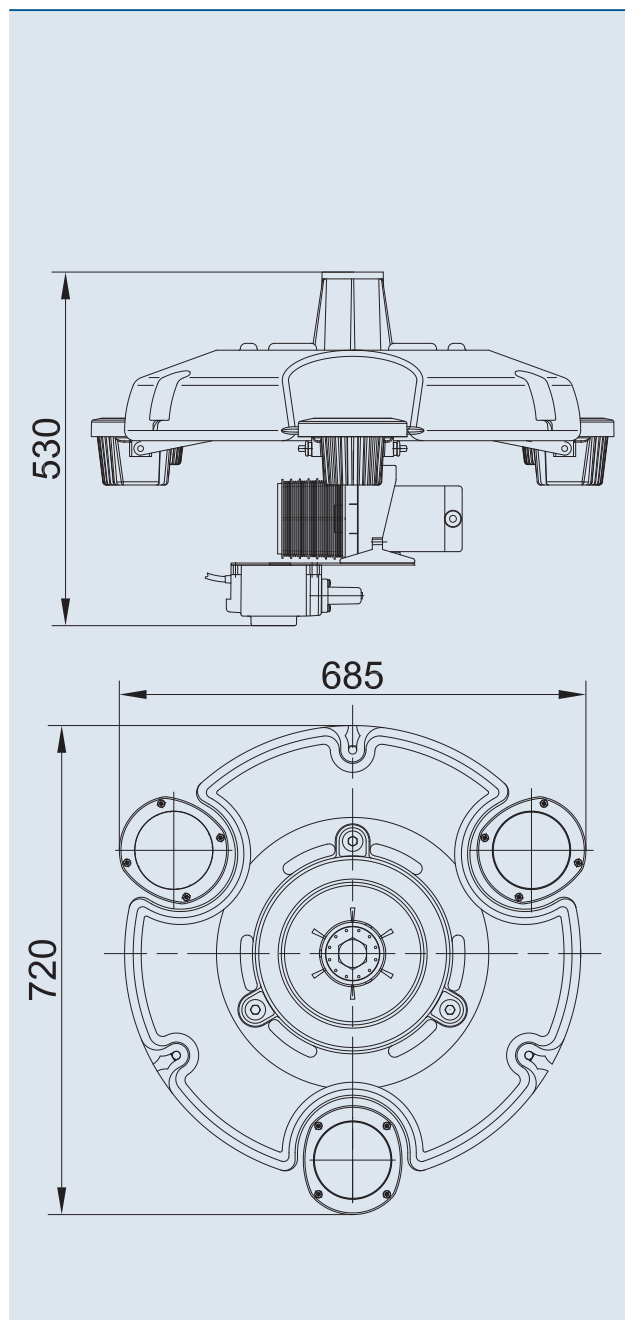
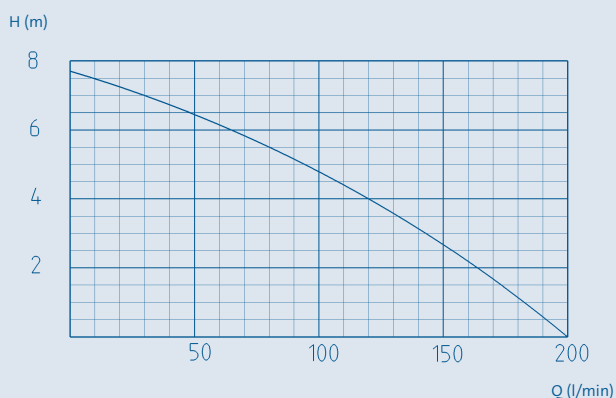


**Connection possibility**  
of the underwater lighting  
transformer.

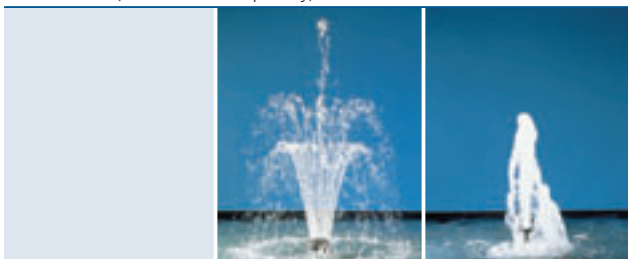
#### Accessories: Lighting set

Three Lunaqua 10 spotlights –  
must be ordered separately.

#### Pump performance curve



#### Accessories (must be ordered separately)



#### Fountain attachments with 1" thread for attachment to the multi-function nozzle

	Vulkan 37-2,5 K	Schaumsprudler 35-10 E
Fountain height [cm]	400	140
Order no.	52319	50984

Pond-Jet	
Dimensions (ø x H)	670 x 540 mm
Rated voltage	220 - 240 V / 50 Hz
Power consumption	270 W
Litres per minute max.	200 l/min.
Litres per hour max.	12000 l/h
Head height max.	7.7 m
Pressure-side connection	1"
Spray height	3.0 m
Filter surface area	650 cm²
Cable length	20.0 m
Weight	approx. 11.0 kg
Order no.	57075



## FLEXY JET 6

**Floating Fountain Flexy Jet:** A flexible fountain that comes with six Frothy nozzles and a pre-programmed software which allows the immediate operation of the impressive water display with a maximum height of 1.70 m.

The Flexy Jet 6 gets its power from the well-proven Varionaut 2 with a total of 780 W – for a low power consumption that saves energy. A frequency of 50 to 60 hz allows an application throughout the whole world.



Thanks to the Plug'n'Spray concept, installation is very easy and doesn't even require a professional electrician: only one 20 m cable connects the fountains to the electric power supply. The fastening system includes 2x 20 m steel cable, hooks and anchors. The scope of delivery also contains a switch box and the pre-programmed standard software controller.

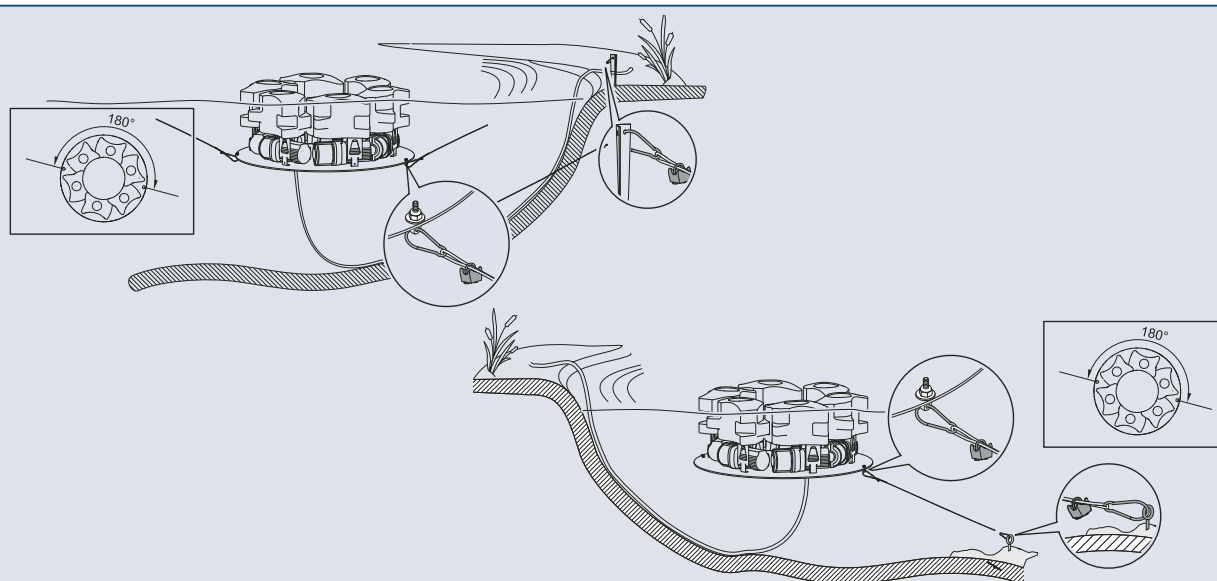
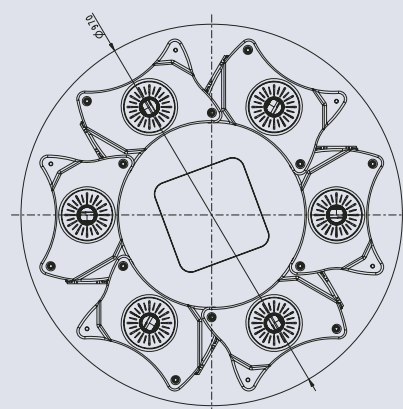
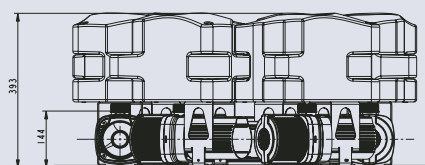
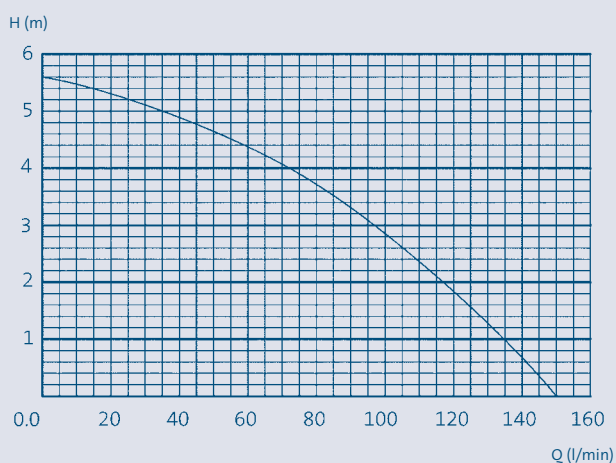
An illumination set is available as an accessory. It includes 3x Lunaqua 10 Set (50 W halogen light each, underwater transformer UST 150 with 20 m cable) and all necessary equipment to fix these units with stainless steel holders at the Flexy Jet 6. Color lenses are also available.

### Product characteristics at a glance

- Plug'n'Spray: Ready for installation with a 20 m cable
- Includes 6 Frothy Nozzles
- Water display of maximum 1.70 m in height
- Minimum water depth of only 23 cm
- Pre-programmed effects
- Protection class IP 68



**Pump performance curve**



**Accessories** (must be ordered separately)



**Flexy Jet illumination set**

Lunaqua 10 with 50 W each	3 x
Stainless steel holder	3 x
Transformer 150 VA	1 x
Cable length	20.0 m
<b>Order no.</b>	<b>50212</b>

Flexy Jet 6	
Dimensions (Ø x H)	940 x 450 mm
Nominal voltage	AC 220 - 240 V / 50-60 Hz
Power consumption	6 x 130 W / 1.3 A
Suction side connection	1.5"
Pressure side connection	1.5"
H max.	5.6 m
Q max.	6 x 150 l/min.
Input power	20m power cable with a schuco-plug
Protection class	IP 68
Max. fountain height with Schaumsprudler 35-10 E	1.7 m
Cable length	20.0 m
Weight	75.0 kg
Material	plastic/stainless steel
<b>Order no.</b>	<b>50143</b>



## FLOATING FOUNTAIN MIDI II / MAXI II

Easy to install, low-maintenance and with an attractive design: The new MIDI/MAXI floating fountains feature four new nozzle patterns for interesting effects both day and night.

Three different motor power outputs with regulation-conformant earthed plugs (230 V) and motor circuit breaker or CEE plug (400 V)

offer solutions for different bodies of water and conditions. Optimised water pressure creates impressive heights for the four available nozzle patterns with 3" standard threads for fast changing. The easy-to-install Lunaqua 10 LED/01 illumination set provides for impressive lighting of the water pattern with a height of up to 16.5 m.

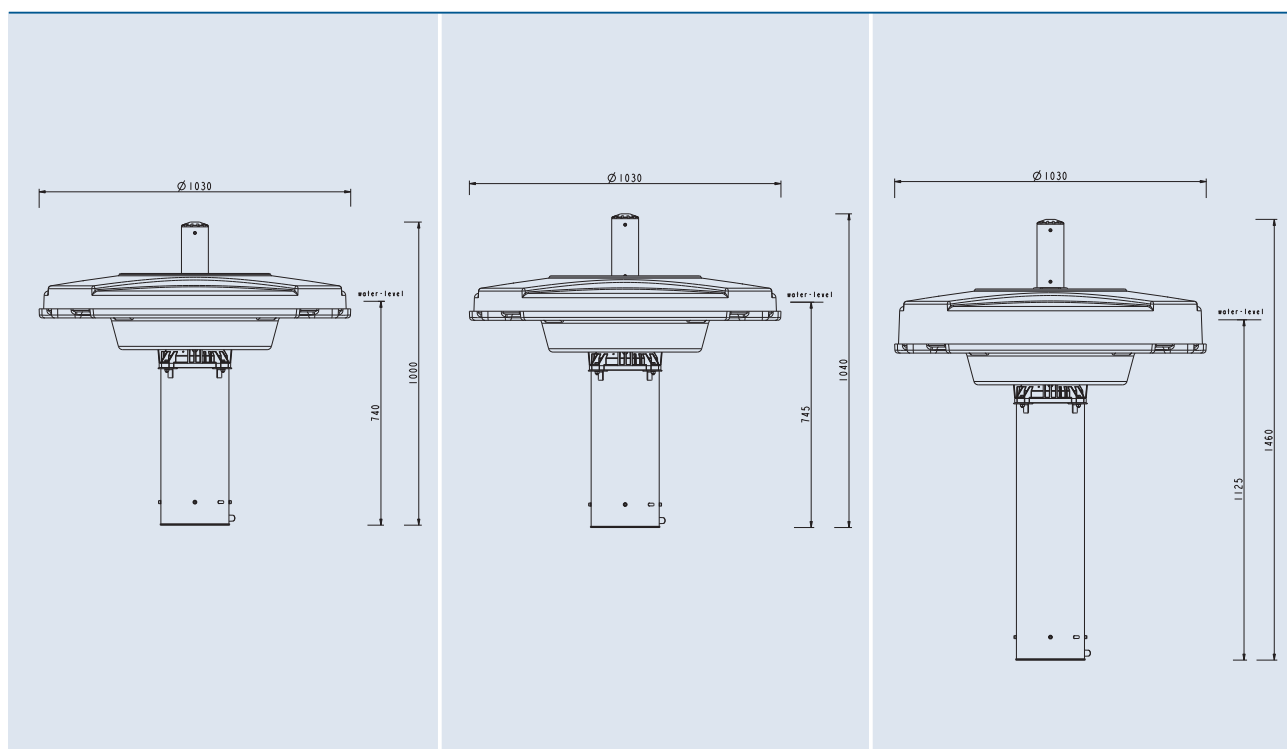
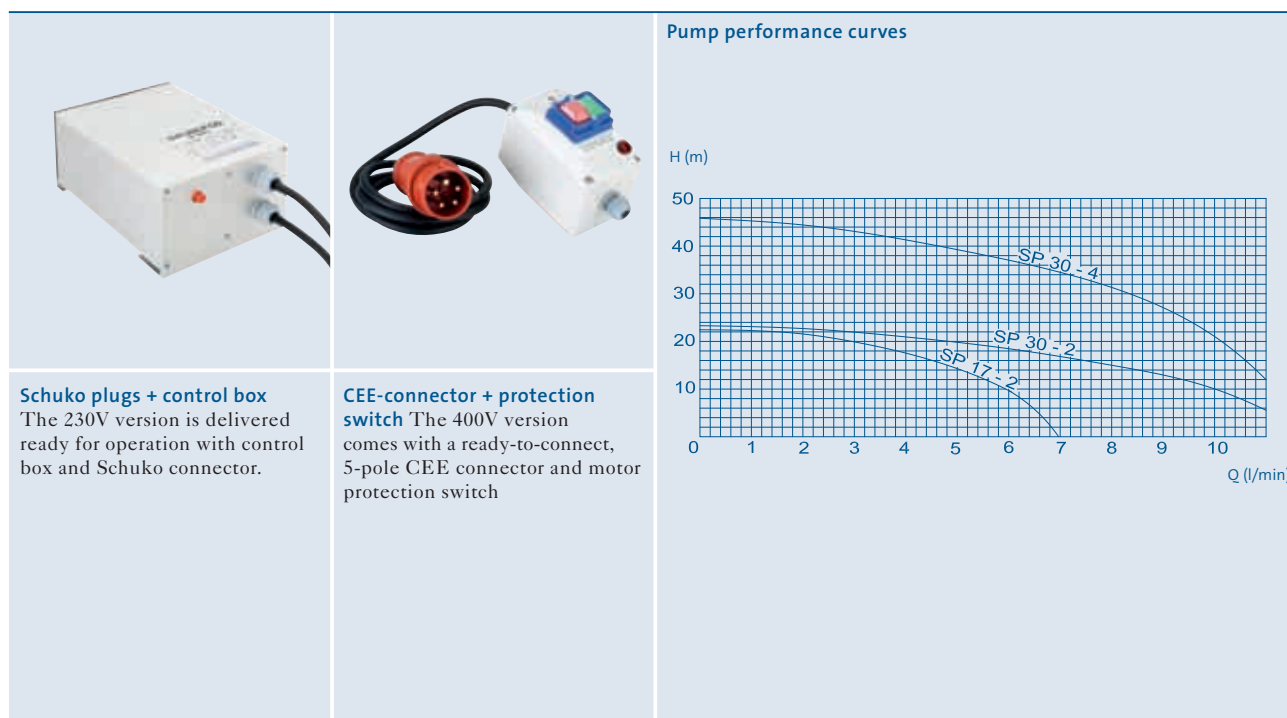
### INNOVATION – MADE BY OASE



#### Product characteristics at a glance

- Complete, ready-to-connect fountain in three different motor output sizes with regulation-conformant earthed plug (230 V) and motor circuit breaker or CEE plug (400 V)
- Easy to install thanks to »Plug'n'Spray«
- Four easy-change nozzle patterns with 3" standard threads
- Lunaqua 10 LED/01 illumination system optional
- Includes mounting set
- Control cabinet on request





Floating Fountain	MIDI II 1.1 KW / 230V	MIDI II 2.2 KW / 400V	MAXI II 4.0 KW / 400V
Dimensions incl. Nozzle (Ø x H) [mm]	1030x 1000	1030 x 1040	1030 x 1460
Motor power [kW]	1.1	2.2	4.0
Pump output [l/h]	22000	39000	39000
Minimum water depth [mm]	1000	1000	1250
Protection class	IP 68	IP 68	IP 68
Rated current (230V/400V) [A]	7.3	5.5	9.6
Voltage [V/Hz]	230 AC / 50	400 AC / 50	400 AC / 50
Weight [kg]	43	40	60
Pump cable set (length) [m]	50	50	50
Order no.	50365	50370	50371

MIDI II / MAXI II FOUNTAIN ATTACHMENTS



NEW



NEW

Fountain attachments	1 Nozzle High Jet 3" Midi II / Maxi II			2 Nozzle Geyser Jet 3" Midi II / Maxi II		
Pump power	1.1 kW/230 V	2.2 kW/400 V	4 kW/400 V	1.1 kW/230 V	2.2 kW/400 V	4 kW/400 V
Fountain height (total) [m]	9.0	11.5	16.5	5.0	8.0	12.0
Fountain height (1st step) [m]	—	—	—	—	—	—
Fountain diameter [m]	—	—	—	—	—	—
Order no.	50375			50377		

All MIDI/MAXI attachments comes with 3"-thread.

Please find more information on our floating fountains MIDI II/MAXI II on page 66.





3



4



3



4



**NEW**



**NEW**




3 Nozzle <b>Grand Vulcan 3"</b> Midi II / Maxi II			4 Nozzle <b>Trumpet Jet 3"</b> Midi II / Maxi II			Fountain attachments	
1.1 kW/230 V	2.2 kW/400 V	4 kW/400 V	1.1 kW/230 V	2.2 kW/400 V	4 kW/400 V	Pump power	
3.0	5.0	7.0	5.0	7.0	9.5	[m]	(total) Fountain height
—	—	—	1.2	1.5	2.5	[m]	(1st step) Fountain height
Ø 2.5	Ø 3.5	Ø 4.0	Ø 4.5	Ø 7.5	Ø 8.0	[m]	Fountain diameter
50376			50378			Order no.	

All MIDI/MAXI attachments comes with 3"-thread.

Please find more information on our floating fountains **MIDI II/MAXI II** on [page 66](#).




## ILLUMINATION SETS POND-JET / AIR FLO

			
<b>Pond-Jet illumination sets</b> <p>This illumination set includes three Lunaqua 10 halogen spotlights and comes with UST 150 transformers, cables and a special mounting kit.</p> <p>By this, it is very easy to retrofit.</p>  <p>Pond-Jet</p>		<b>Air Flo illumination sets</b> <p>Suitable for our Air Flo, we offer you both a halogen and an LED version of our illumination kit with three spotlights each. A unique connection system makes it very easy to install the spotlights on the float. The UST 150 transformer is mounted easily to the pump basket directly.</p>  <p>Air Flo</p>	
<b>Set of 3 Halogen</b> 3 x Lunaqua 10, each with a 50 W halogen bulb 3 x Light mounting brackets 1 x Special stainless steel holder for fastening the transformer 1 x Safety transformer 150 VA, 230 V-12 V, 50 Hz incl. 20.0 m cable		<b>Set of 3 Halogen</b> 3 x Lunaqua 10, each with a 50 W halogen bulb 3 x Light mounting brackets 3 x Special stainless steel holder for fastening the transformer 1 x Safety transformer 150 VA, 230 V-12 V, 50 Hz incl. 50.0 + 2.0 m cable	<b>Set of 3 LED</b> 3 x Lunaqua 10 LED, each with a 10 W LED bulb 3 x Light mounting brackets 3 x Special stainless steel holder for fastening the transformer 1 x Safety transformer 150 VA, 230 V-12 V, 50 Hz incl. 50.0 + 2.0 m cable
Order no.	57083	Order no.	50188
		Order no.	50479





## ILLUMINATION SETS MIDI II / MAXI II

			
			
			
<b>MIDI II illumination sets</b> <p>For an impressive floating fountain even at night – as easy as our proven Air Flo system, we offer you both a halogen and a LED version of our illumination kit with three spotlights each. A unique connection system makes it very easy to install the spotlights on the float. The UST 150 transformer is mounted easily to the pump basket directly.</p>		<b>MAXI II illumination sets</b> <p>For an impressive floating fountain even at night – as easy as our proven Air Flo system, we offer you both a halogen and a LED version of our illumination kit with three spotlights each. A unique connection system makes it very easy to install the spotlights on the float. The UST 150 transformer is mounted easily to the pump basket directly.</p>	
 <p>MIDI II</p>		 <p>MAXI II</p>	
<b>Set of 3 Halogen</b> 3 x Lunaqua 10, each with a 50 W halogen bulb 3 x Light mounting brackets 3 x Special stainless steel holder for fastening the transformer 2 x Safety transformer 150 VA, 230 V-12 V, 50 Hz incl. 50.0 + 2.0 m cable	<b>Set of 3 LED</b> 3 x Lunaqua 10 LED, each with a 10 W LED bulb 3 x Light mounting brackets 3 x Special stainless steel holder for fastening the transformer 1 x Safety transformer 150 VA, 230 V-12 V, 50 Hz incl. 50.0 + 2.0 m cable	<b>Set of 3 Halogen</b> 3 x Lunaqua 10, each with a 50 W halogen bulb 3 x Light mounting brackets 3 x Special stainless steel holder for fastening the transformer 2 x Safety transformer 150 VA, 230 V-12 V, 50 Hz incl. 50.0 + 2.0 m cable	<b>Set of 3 LED</b> 3 x Lunaqua 10 LED, each with a 10 W LED bulb 3 x Light mounting brackets 3 x Special stainless steel holder for fastening the transformer 1 x Safety transformer 150 VA, 230 V-12 V, 50 Hz incl. 50.0 + 2.0 m cable
Order no. 50188	Order no. 50479	Order no. 50188	Order no. 50479





# THE BEAUTIES OF THE NIGHT

WATER INSTALLATIONS ARE TOO BEAUTIFUL TO ONLY BE SEEN DURING DAYLIGHT. WITH THE RIGHT ILLUMINATION FROM OASE, THE INSTALLATION CAN TAKE ON A SPECTACULAR APPEARANCE AFTER DARK AS WELL.

## MARDAN PALACE HOTEL

**Location:** Antalya, Turkey

Reminding of Arabian Nights, the site of Mardan Palace Hotel in Antalya, Turkey is one of the most exclusive Hotels in the Mediterranean.

The installation combines water with laser and LED light and impresses by underlining the unique terrace architecture.

*OASE reference object, left*

Light and shadow have, for time immemorial, provided a special attraction. At night, when the surrounding environment becomes invisible, water installations can provide unrivalled beauty, and really stand out from their veiled surroundings.

Buildings appear aristocratically as soon as they are illuminated in the evening hours, trees and bushes become floodlit sculptures. He who controls the contact with light awakens emotions – equally, whether a festive mood or relaxing, romantic moments.

With the illumination technology from OASE, you have the necessary tools for effective light installations to hand:

- Underwater spotlights for water installations, fountains and floating aggregates
- Innovative LED technology provides a high level of light incidence, whilst being highly energy-efficient
- For a professional installation, transformers and cables are provided, along with the corresponding installation materials.



*The Nozzle-Star LED from OASE has a concentric nozzle opening and illuminates fountains of up to approximately 7.5 m via its twin LED clusters.*

• Halogen spotlights	page 74
• LED technology	page 86
Warm white light	
Profilux LED	page 86
Lunaqua 10 LED	page 86
RGB	
Best LED	page 88
Nozzle-Star LED	page 90
Twin-Star LED	page 91





## PROFILUX E 100 AND E 101 HALOGEN

Thanks to the compact design the Profilux E 100 set and the E 101 also accentuate public areas with focused light effects and allow sculptures, water features, individual fountains, or plants, to radiate in light.

The housing of the halogen spotlight is made of robust stainless steel and is fitted with a PG 13.5 cable gland, as well as with a pivoting spotlight holder – also made of stainless steel.

The Profilux E 100 is only available as a complete set with 100 W bulb, 7.5 m cable, 105 VA safety transformer, and a thermal switch.

### Product characteristics at a glance

- High-quality stainless steel spotlights
- Stainless steel bracket for simple and safe installation
- Halogen bulbs: 50 W, 75 W (E 101) and 100 W (E 100)
- With PG 13.5 cable entry

Accessories for Profilux E 100 / E 101 (must be ordered separately)

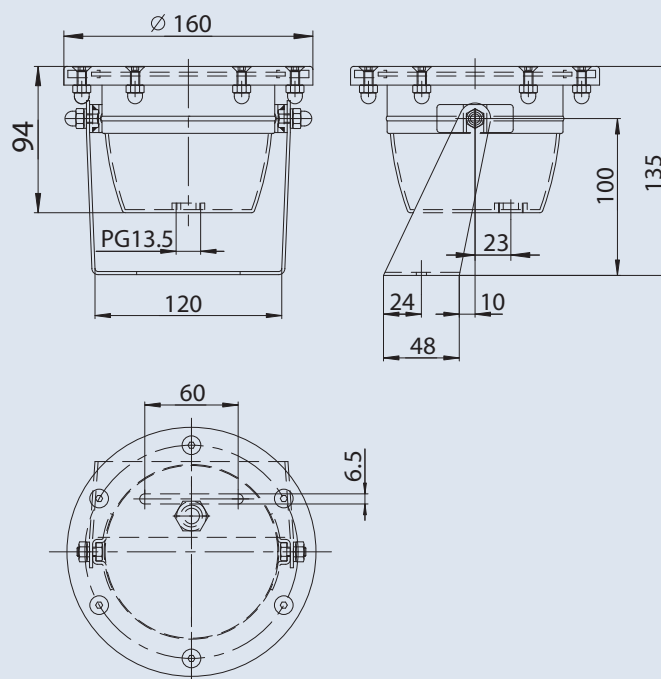
Halogen reflector bulb			
Voltage [V]	12	12	12
Power output [W]	50	75	100
Beam angle	24°	24°	24°
Order no.	52939	52941	52943



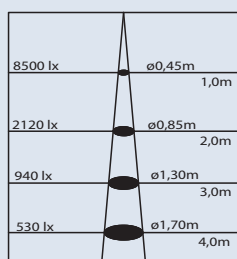
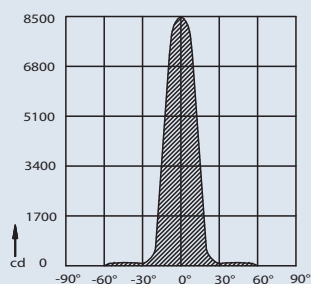
Profilux E 100



Profilux E 101

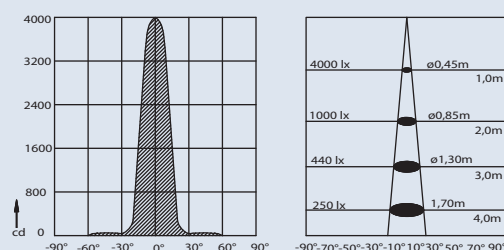


**Halogen 100W 24°**



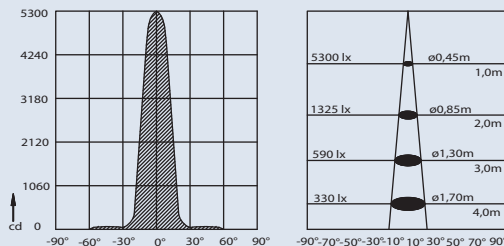
-90° -70° -50° -30° -10° 10° 30° 50° 70° 90°

**Halogen 50W 24°**



-90° -70° -50° -30° -10° 10° 30° 50° 70° 90°

**Halogen 75W 24°**



-90° -70° -50° -30° -10° 10° 30° 50° 70° 90°

	* Profilux E 100	Profilux E 101
Dimensions (Ø x H) [mm]	160 x 135	160 x 135
Beam angle	24°	24°
Light intensity [cd]	8400	4000-5000
Bulb [V/Hz]	12 V / 50 Hz	12 V / 50 Hz
Power consumption max. [W]	100 W halogen	50, 75 W halogen
Protection class	IP 68	IP 68
Cable entries	1x PG 13.5	1x PG 13.5
Cable length [m]	7.5	—
Material	Stainless steel	Stainless steel
Weight [kg]	5.0	1.5
Order no.	56898	56133

\* The Profilux E 100 is only available as a complete set including 100W light, 7.5m cable, a safety transformer with 105 VA and a thermo switch.



## LUNAQUA 10 HALOGEN

With these compact spotlights exclusive garden and pond landscapes also give a good impression in evening and night hours. Deployed underwater they illuminate fountains and water features, above the water surface they illuminate the garden and park landscape.

The spotlight, made of impact-resistant plastic, is connected to the 12-Volt safety transformer via special connections that can also be used underwater. This means that even greater distances to the 230 Volt outlet can be bridged with conventional cable. The transformer is equipped with 4 couplings to connect either 4 x 35 W, 3 x 50 W or 2 x 75 W, 12 V.

The special structured glass cover, in conjunction with the aluminium reflector, creates optimal light efficiency. The mounting bracket enables a pivot range of approximately 180°.

### Product characteristics at a glance

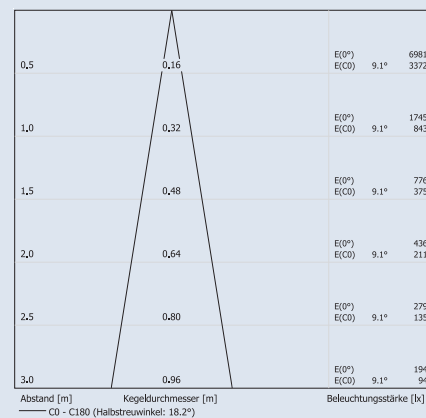
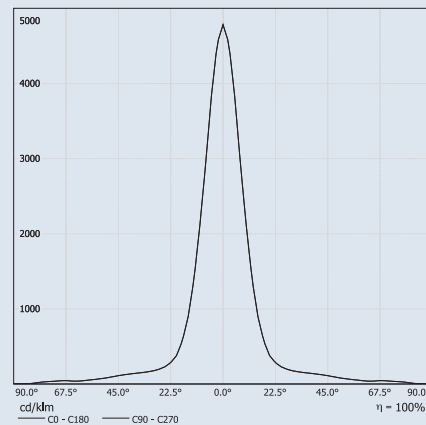
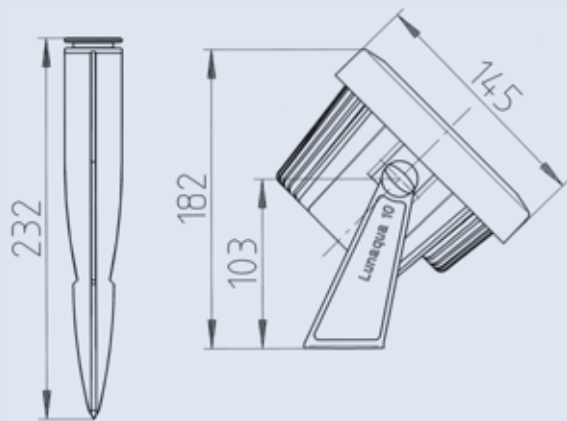
- Accentuates with rich light effects
- Can be implemented underwater and above the water surface (excl. 75 W lamp)
- Housing made of impact-resistant plastic
- Structured special glass cover for optimal light efficiency
- Mounting bracket with 180° pivot range

### Accessories (must be ordered separately)

Bulbs halogen bulb			
Colour	white	white	white
Voltage [V]	12	12	12
Power output [W]	35	50	75
Order no.	54035	54036	54037

Coloured lens				
Colour	blue	yellow	green	red
Weight [kg]	0.2	0.2	0.2	0.2
Order no.	56129	56130	56131	56132





NEW

#### Spotlight Lunaqua 10 halogen

- Housing made of impact-resistant plastic
- Structured special glass cover and aluminium reflector for optimal light efficiency
- Pivot range approximately 180° thanks to the integrated mounting bracket
- Delivered without bulb, transformer and cable

Dimensions in mm (Ø x H)	160 x 100
Nominal voltage	12 V/50 Hz
Bulb max.	35 – 75 W halogen
Beam angle	24°
Protection class	IP 68
Weight	1.1 kg
Guarantee*	2 years
Order no.	54034

\*bulbs excluded from the guarantee

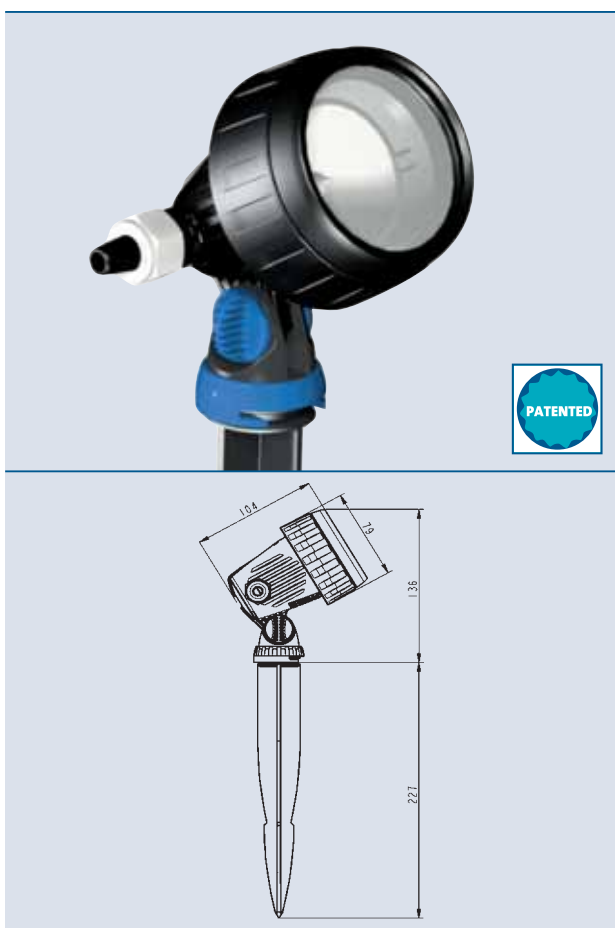
#### Underwater transformer UST 150/01

- 4 couplings
- Connection of 4 x 35 Watt, 3 x 50 Watt or 2 x 75 Watt halogen spotlights
- Connection of 4 x 10 Watt Lunaqua 10 LED
- Connection of 8 x Profilux LED 12V/01 with 4 power boxes

Dimensions in mm (L x W x H)	140 x 140 x 59
Primary voltage	230 V/50 Hz
Secondary voltage	12 Volt
Consumption	150 VA
Cable length	10.0 m
Weight	4.5 kg
Guarantee	2 years
Order no.	50401

Please consider the informations given in the manual if you wish to connect existing and new Lunaqua 10 products!

# LUNAQUA 3 SOLO



Lunaqua 3 Solo	
Dimensions (Ø x H)	79 x 104 mm
Cable inlets	2x PG 11
Cable diameter	H05 and H07
Power consumption (Halogen bulb)	max. 100 W
Suitable for nominal voltage	12 V
Protection class	IP 68
Mounting	G 4
Beam Angel	10° – 40°
Weight	0.6 kg
Order no.	57141

With the Lunaqua 3 Solo variant, single, as well as parallel, multiple spotlight connections can be installed.

The single unit for all purposes is ideal for installation above and below the water surface. Its beam angle is adjustable and ensures precise illumination of the desired object. Input and output are fitted with high-quality PG cable glands for H05 or H07 cable for simple installation.

## Product characteristics at a glance

- Accentuates with rich light effects
- Can be implemented underwater and above the water surface
- For installation of individual and parallel lighting chains
- Adjustable beam angle
- Extremely corrosion resistant
- With ground stakes and mounting element
- Incl. 20 Watt bulb
- Supplied without cable and transformer

## Accessories (must be ordered separately)

Replacment Halogen bulb		
Voltage [V]	12	12
Power output [W]	20	35*
Order no.	70703	54035

\* 35 W is only possible in underwater operation!

## Accessories (must be ordered separately)

Coloured lens set	
Colour	blue, yellow, green, red
Order no.	27565

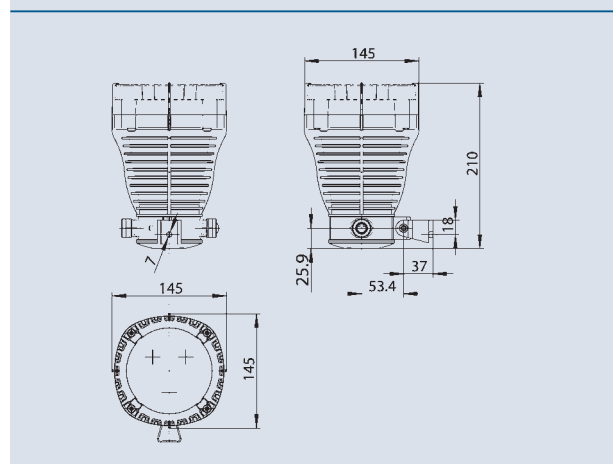
## LUNAQUA 5.1

The Lunaqua 5.1 creates dazzling beauty, particularly underwater. This powerful spotlight brings even more light into the darkness and can also be installed in larger fountain systems.

Lunaqua 5.1 has been especially designed for underwater operation and can be operated with PAR 38 100 W reflector bulbs on 12 Volts. This powerhouse convinces by a perfect price/performance ratio, easy and safe installation, and versatile implementation as a single spotlight or in parallel group cabling. Input and output are fitted with high-quality PG cable glands for H05 or H07 cable.

### Product characteristics at a glance

- Maximum power above the water surface or underwater
- Housing made of impact-resistant plastic
- Extremely corrosion resistant
- PAR 38 reflector bulbs with 100 W
- Including stainless steel mounting bracket
- Supplied exclusive of connection cable, transformer, and bulb



### Accessories (must be ordered separately)

Reflector bulb PAR 38	
Voltage [V]	12
Power output [W]	100
Beam angle	30°
Weight [kg]	0.4
Order no.	56812

Lunaqua 5.1	
Dimensions (Ø x H)	145 x 210 mm
Cable inlets	2x PG 16
Cable diameter	H05 and H07
Power consumption	max. 100 W
Nominal voltage	12 V
Protection class	IP 68
Mounting	E 27
Cable length	—
Weight	1.2 kg
Order no.	57427





#### IMPRESSIVE OBJECTS

The **illuminated fountain** installation in **Brunei** is the highlight of the leisure parks. In **Dallas, Texas** (bottom left) the **»Legacy Fountain«** forms the focal point in the centre of restaurants and shops. In the 30m wide basin, 168 Twin-Star LED's illuminate the 20m high central fountain. Bottom right is portrayed an illuminated **water feature** on a **roundabout in Bad Vilbel**.

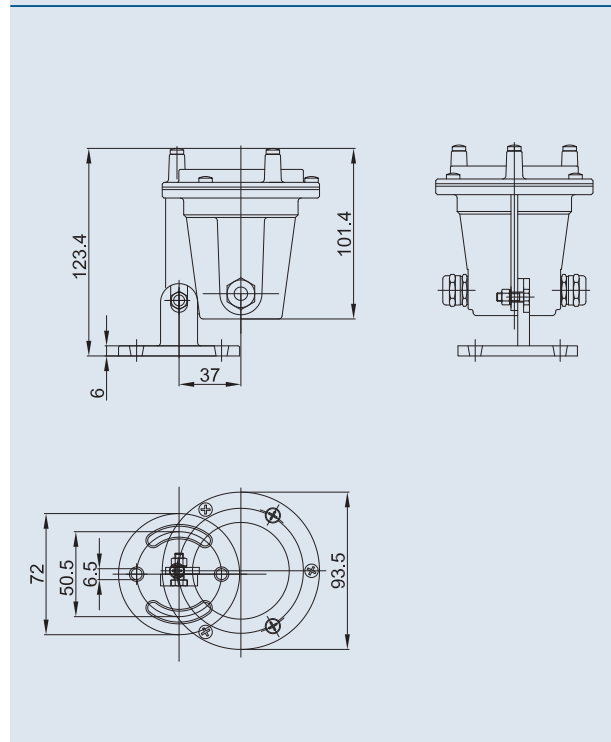
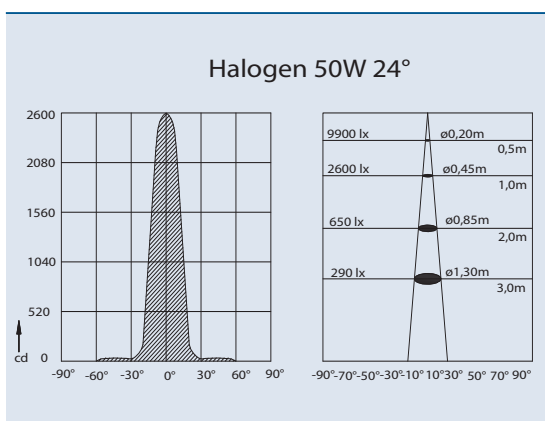
## UWS TN 508

Individual fountains, water effects, or plants are easily illuminated with the small but robust UWS TN 508 spotlights.

The compact design with a robust and corrosion-resistant Tombac construction: The UWS TN 508 spotlight is ideal for use in public displays. And the PG 11 cable glands enable individual spotlights to be connected in a chain.

### Product characteristics at a glance

- Accentuates with rich light effects
- Can be implemented underwater and above the water surface
- Power consumption: 50 Watts
- Can be switched in series for a lighting chain
- Corrosion-resistant tombac design
- Lamp included in the scope of delivery



**Accessories** (must be ordered separately)

### Replacement Halogen reflector bulb

Power consumption	50 W
Beam angle	24°
Order no.	51394

UWS TN 508	
Dimensions (ø x H)	94 x 125 mm
Nominal voltage	12 V
Power consumption	50 W
Light intensity	2600 cd
Beam angle	24°
Protection class	IP 68
Cable inlets	2x PG 11
Material	tombac
Weight	1.10 kg
Order no.	51446



## UWS T 111/UWS TS 111 AND MULTI-POWER MP T 3

These underwater spotlights have been designed with extra strength for professional use in public installations. In underwater operation they effectively set the stage for fountains and water features, out of the water they illuminate sculptures, buildings, or trees.

They have been designed with appropriate stability and strength for their area of implementation. The spotlight housing is made of cast tombac and has a PG 16 cable gland for UWS T 111 / UWS T3 111 and PG 21 for MPT3.

Halogen reflector bulbs are protected by a 15 mm thick, shatterproof safety glass lens, which is screw-fastened to the housing. The smooth surface ensures long cleaning intervals.

The UWS TS 111 spotlight can be turned in all directions by 12.5° in its stainless steel installation housing. Two clamp rings enable precise alignment on site.

### Product characteristics at a glance

- Extremely robust tombac and stainless steel design
- Safety glass cover
- Flat surface for easy cleaning
- Extremely corrosion resistant
- Can also be used out of the water
- Supplied exclusive of connection cable, transformer, and bulb

### Accessories for UWS T 111/TS111 (must be ordered separately)

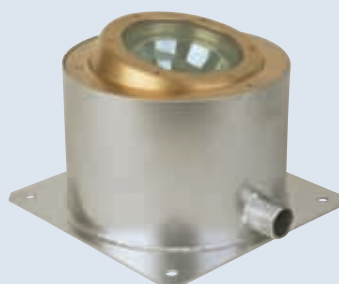
Halogen reflector bulb 12 V				
Colour	white	white	white	white
Power Output [W]	50	75	100	100
Beam angle	24°	24°	10°	24°
Order no.	52939	52941	52942	52943

### Accessories for Multi-Power MP T 3 (must be ordered separately)

Halogen reflector bulb 12 V		
Colour	white	white
Power Output [W]	50	75
Beam angle	24°	24°
Order no.	52920	52923



UWS T 111 / PG 16

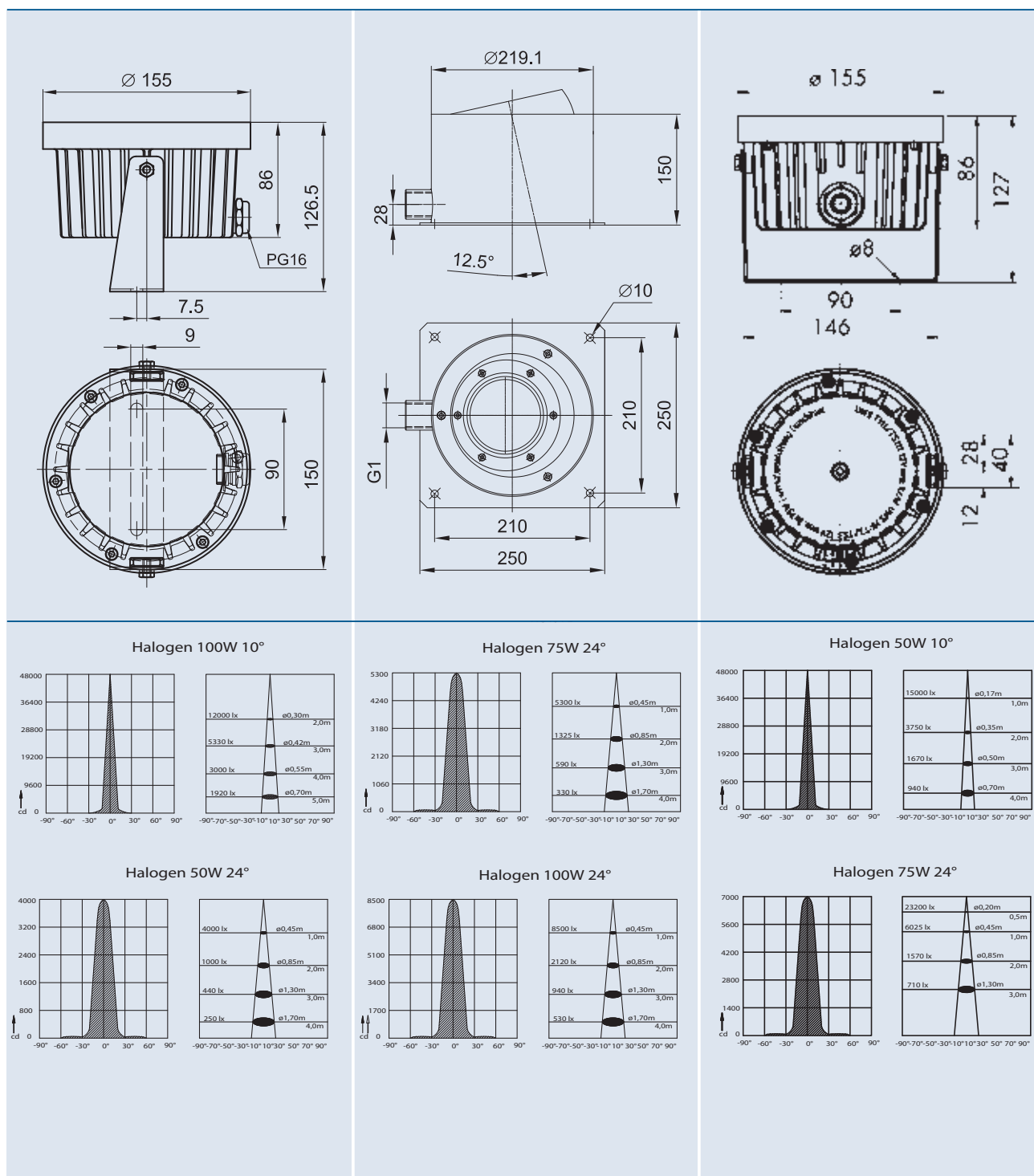


UWS TS 111 / PG 16



Multi-Power MP T 3 / PG 21





Underwater spotlight	UWS T 111	UWS TS 111	Multi-Power MPT 3
Dimensions (Ø x H)	155 x 127	219 x 155	155 x 127
Nominal voltage	12	12	12
Power consumption	50, 75 or 100	50, 75 or 100	3 x 50 or 75
Light intensity	4500 – 50000	4500 – 50000	7500 – 45000
Beam angle	10° or 24°	10° or 24°	10° or 24°
Protection class	IP 68	IP 68	IP 68
Cable inlets	1, PG 16	1, PG 16	1, PG 21
Material	tombac/stainless steel	tombac/stainless steel	tombac/stainless steel
Cable length	—	—	—
Weight	4.0	11.0	4.5
Order no.	52904	52909	52908



## UWS K 300

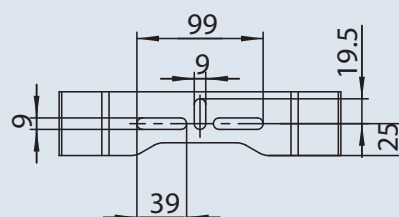
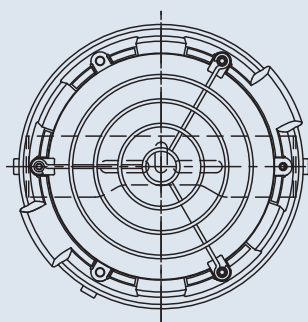
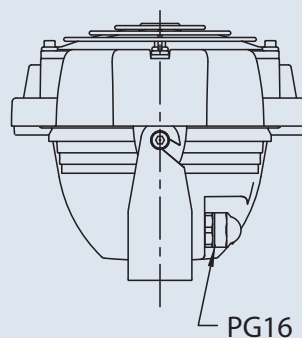
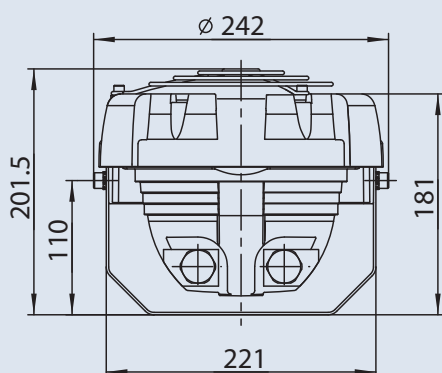
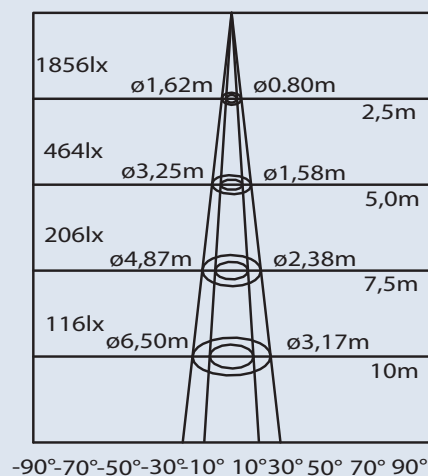
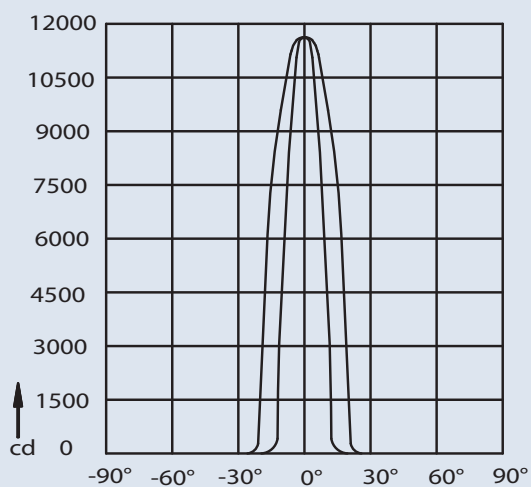
This spotlight has been especially designed for underwater operation. It is suitable for PAR 56 reflector bulbs. Its power output: 300 W / 12 V.

Included in delivery are a protective grill and a stainless steel mounting bracket.

### Product characteristics at a glance

- Housing made of impact-resistant plastic
- Can be fitted with a strong 300 Watt bulb
- With protective grill and mounting bracket of stainless steel
- For focused effect illumination





**Accessories** (must be ordered separately)

Reflector bulb PAR 56, 12 V	
Colour	white
Power output	300 W
Beam angle	40° or 16°
Order no.	51984

UWS K 300	
Dimensions (ø x H)	242 x 201 mm
Nominal voltage	12 V
Power consumption	300 W
Light intensity	11600 cd
Beam angle	38° or 16°
Protection class	IP 68
Cable inlets	2x PG 16
Material	plastic/stainless steel
Weight	2.6 kg
Order no.	57288





## PROFILUX LED / LUNAQUA 10 LED

Our well-proven spotlights are now equipped with a warmwhite, energy efficient LED platine with an impressive illumination of up to 12 m. Both reduce their illumination should the surrounding temperature increase to avoid damaging the platine and are applicable at voltages of 12 V and also 24 V.

### Product characteristics Profilux LED

- 12 V AC/24 DC compatible
- Stainless steel housing, warmwhite LED platine
- Up to 8 spotlights of the 12V version can be connected to transformer UST 150 by using the power boxes
- Temperature protection
- Incl. illuminant (not dimmable)

### Product characteristics Lunaqua 10 LED

- LED Spotlight warmwhite
- Compatible with connection cable and transformer of the Lunaqua 10 Halogen system
- 12 V/24 V
- Incl. illuminant (not dimmable)

### Accessories (must be ordered separately)

Under water transformer UST 150/01 (see page 77)	
Primary voltage	230 V/50 Hz
Secondary voltage	12 Volt
Consumption	150 VA
Order no.	50401

Matching cable 24V DC/01 (see page 155)	Order no.
Cable 24V DC /1.0 m/01	12762
Cable 24V DC /3.0 m/01	12552
Cable 24V DC /7.5 m/01	12553
Cable 24V DC /15.0 m/01	11720

Matching cable 12V AC/01 (see page 155)	Order no.
Cable 12V AC /1.0 m/01	12768
Cable 12V AC /3.0 m/01	12374
Cable 12V AC /7.5 m/01	12375
Cable 12V AC /15.0 m/01	11740

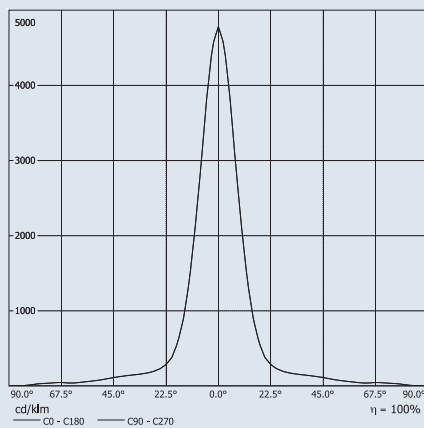
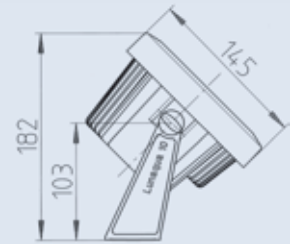
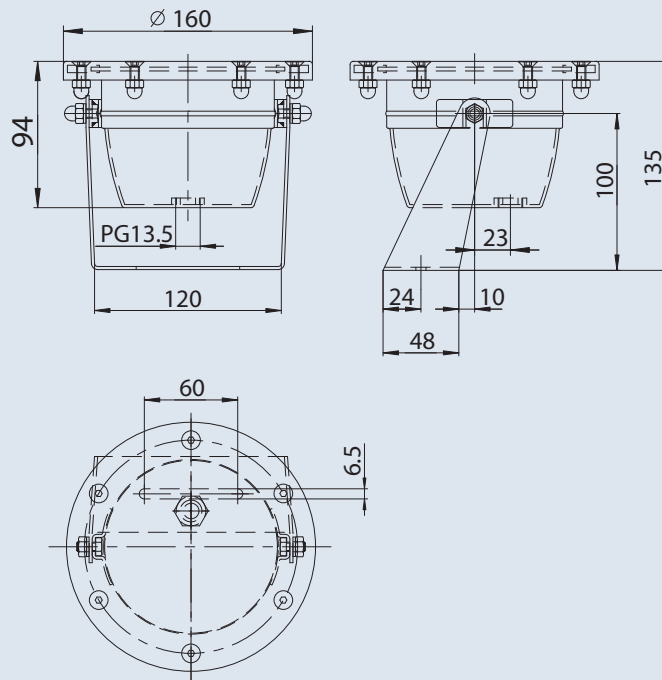
Power Box	Order no.
Power Box 12V AC/01	50492
Power Box 24V AC/01	50493

## INNOVATION – MADE BY OASE



Profilux LED 12V/01 and Profilux LED 24V/01

Lunaqua 10 LED/01



0,5	0,16	E(0°) E(C0)	9,1°	6981 3372
1,0	0,32	E(0°) E(C0)	9,1°	1745 843
1,5	0,48	E(0°) E(C0)	9,1°	776 375
2,0	0,64	E(0°) E(C0)	9,1°	436 211
2,5	0,80	E(0°) E(C0)	9,1°	279 135
3,0	0,96	E(0°) E(C0)	9,1°	194 94

Abstand [m]      Kegeldurchmesser [m]      Beleuchtungsstärke [lx]  
C0 - C180 (Halbstrahlwinkel: 18,2°)

	Profilux LED 12V/01	Profilux LED 24V/01	Lunaqua 10 LED/01
Dimensions (ø x H)	[mm] 160 x 135	160 x 135	160 x 100
Voltage	[V/Hz] 12 AC / 50-60	24 DC	12 AC / 24 DC / 50
Power consumption max.	[W] 10 W	10 W	10 W
Light intensity; Luminous flux [cd];[lm]	1800; 370	1800; 370	1800; 370
Beam angle	20°	20°	20°
Protection class	IP 68	IP 68	IP 68
Dimmable	no	no	no
Cable length	[m] 1.0 (with box)	1.0 (with box)	—
Material	Stainless Steel	Stainless Steel	Plastic
Weight	[kg] 2.5	2.5	1.6
Guarantee*	2 years	2 years	2 years
Order no.	50367	50474	50366

\* bulbs excluded from the guarantee

Please consider the informations given in the manual if you wish to connect existing and new products!



## BEST LED

These small LED ground-installed spotlights are suitable for almost anything. They can be built into practically any natural stone or paving. This makes them ideal for use in pool installations without open water surfaces.

Nozzles can be integrated in the middle of the LED spotlights if the spotlights are used to illuminate fountains. Thus attractive symmetric illumination with continuously changing colour nuances is produced.

However these robust colour wonders show their full strength when combined with the Vario-Switch system. In combination they pave the way for a completely new composition of open space and fountain installations.

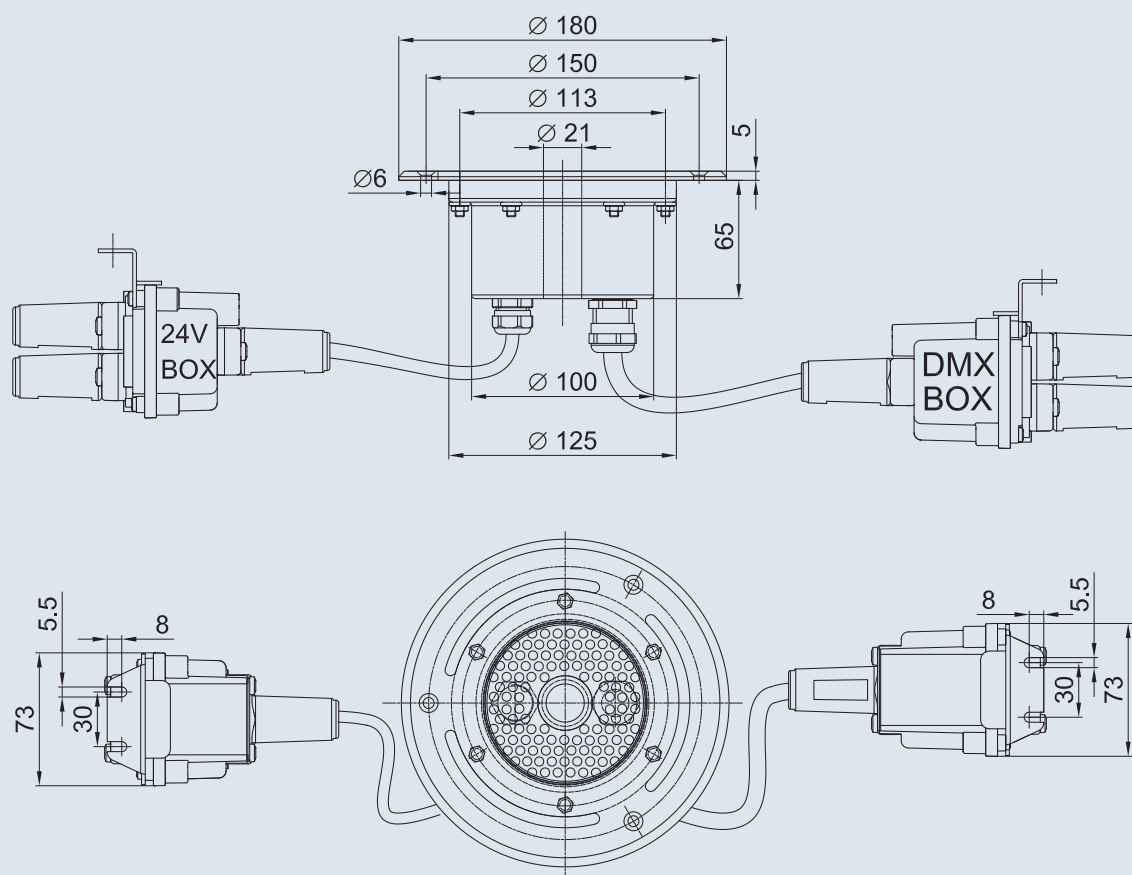
### Product characteristics at a glance

- High-performance LED ground-installed spotlights
- Energy-efficient
- Integrated electronics
- Centred opening for different-size nozzles  
Recommendation: Comet 10-12 T long or Comet 10-14 T long (not supplied)
- Edge mount/fixture in stainless steel
- Extremely long illuminant life
- Extremely compact design
- Multi-colour switchable can be individually controlled via OASE Easy Control (not supplied)
- Wet or dry installation

DMX-Channel	Function
Channel 1	red
Channel 2	green
Channel 3	blue
Channel 4	nozzle
Channel 5	bypass







## Accessories (must be ordered separately)

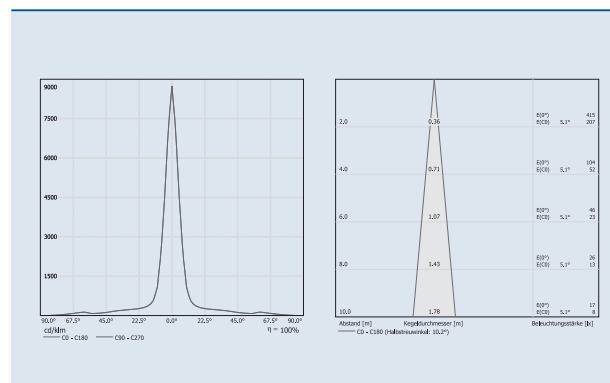
Recommended Nozzles	Order no.
Comet 10-12 T long	56780
Comet 10-14 T long	50218

Connecting cable DMX/01 (see page 154)	Order no.
Connecting cable DMX/1.0 m/01	12368
Connecting cable DMX/3.0 m/01	12369
Connecting cable DMX/5.0 m/01	12371
Connecting cable DMX/10.0 m/01	12372
Connecting cable DMX/20.0 m/01	12373
End Resistant for Bus-System DMX/01	12007

Connecting cable 24V DC/01 (see page 155)	Order no.
Connecting cable 24V DC /1.0 m/01	12762
Connecting cable 24V DC /3.0 m/01	12552
Connecting cable 24V DC /7.5 m/01	12553
Connecting cable 24V DC /15.0 m/01	11720

Nozzle-Chamber (see page 155)	Order no.
Nozzle-Chamber Single	50477
Nozzle-Chamber Vario	50478

Easy Control (see page 160)	50289
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BEST LED /DMX/01	
Dimensions (Ø x H)	180 x 65 mm
Nominal voltage	24 V DC
Consumption	0.8 A
Power consumption	20 W
Thickness of safety glass	6 mm
Illumination range	ca. 3.0 m
Nominal current	0.75 A
Weight	3.5 kg
Protection class	IP 68
Power connection	1.0 m with Box
DMX connection	1.0 m with Box
Material	stainless steel / tombac
Order no.	50338

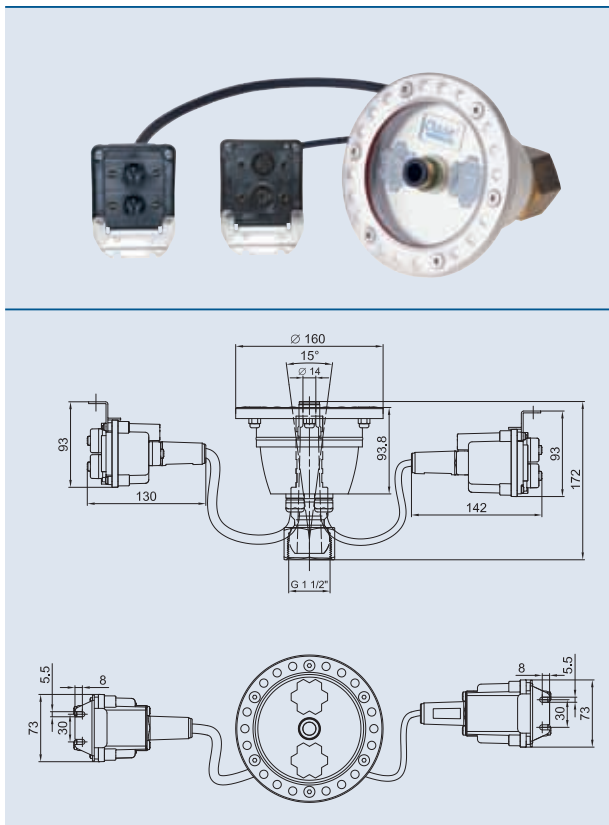
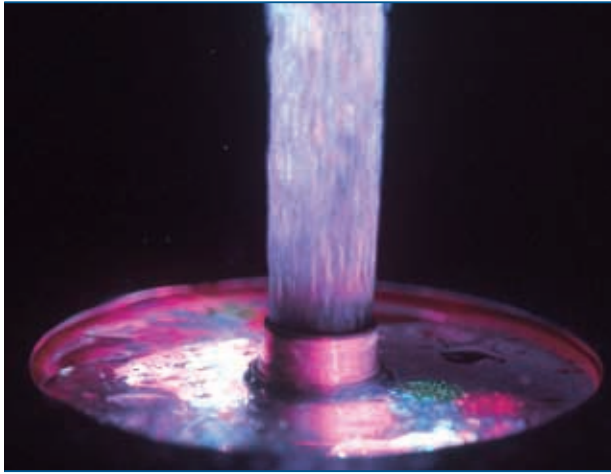
## Tip

They are ideal in combination with the Vario-Switch, page 108! Additional information concerning DMX is available on page 160.

Fountain heights and pressure requirements see page 95 by Comet 10-14 T.

Detailed information and accessories are available on the Internet at [www.oase-livingwater.com](http://www.oase-livingwater.com)

## NOZZLE-STAR LED /DMX/01



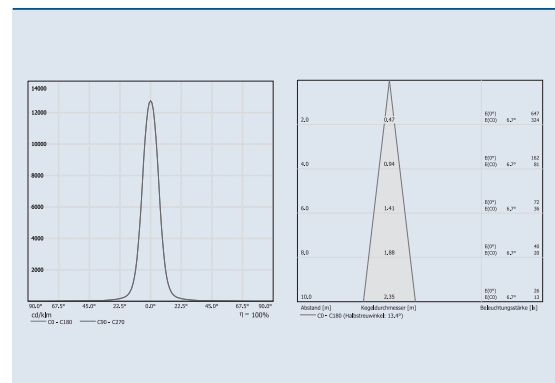
Nozzle-Star LED /DMX/01	
Dimensions (ø x H)	160 x 172 mm
Nominal voltage	24 V / DC
Consumption Current	1.5/3.0 A
Power consumption	36 – 72 W
Beam angle	6°
Beam diameter	14 mm
Illumination range	ca. 7.5 m
Protection class	IP 68
Power connection	1.0 m with Box
DMX connection	1.0 m with Box
Material	stainless steel
Weight	3.6 kg
Order no.	50334

This concentric LED spotlight serves as nozzle opening and illumination at the same time.

The nozzle opening produces a fountain height up to 7.50 m and is illuminated by the two 36 W LED clusters in wonderful colours. The ball joint allows 15 degree adjustment in all directions.

### Product characteristics at a glance

- LED spotlight nozzle opening
- Energy-saving
- Integrated electronics
- Adjustable stainless steel housing with ball joint
- Power consumption in preset RGB mode 36 W, unregulated
- Wet or dry installation
- Permanently waterproof
- Colours can be individually controlled by OASE Easy Control (must be ordered separately)



DMX-Channel	Function
Channel 1	red
Channel 2	green
Channel 3	blue
Channel 4	nozzle
Channel 5	bypass

### Accessories (must be ordered separately)

Connecting cable DMX/01 (see page 154)	Order no.
Connecting cable DMX/1.0 m/01	12368
Connecting cable DMX/3.0 m/01	12369
Connecting cable DMX/5.0 m/01	12371
Connecting cable DMX/10.0 m/01	12372
Connecting cable DMX/20.0 m/01	12373
End Resistant for Bus-System DMX/01	12007

Connecting cable 24V DC/01 (see page 155)	Order no.
Connecting cable 24V DC /1.0 m/01	12762
Connecting cable 24V DC /3.0 m/01	12552
Connecting cable 24V DC /7.5 m/01	12553
Connecting cable 24V DC /15.0 m/01	11720

Easy Control (see page 160)	50289
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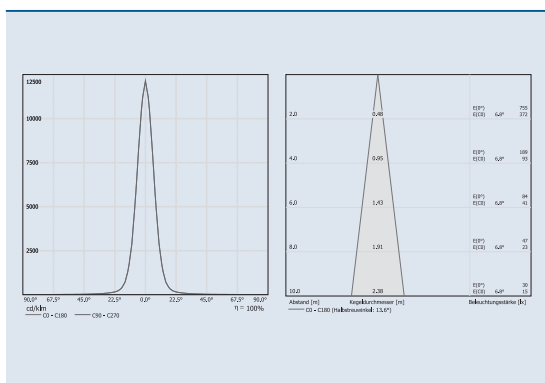
## TWIN-STAR LED /DMX/01

Double the fun with innovative illumination technology from OASE: Our new LED Twin Star spotlights can illuminate fountains of up to 10 m in height.

The spotlights are placed at a distance of approx. 0.30 m to 0.50 m from the fountain. The spotlight housings are made of stainless steel, and each spot contains a max. 36W LED cluster. For an optimal, synchronous operation, both lights are mounted on a stainless steel fixture.

### Produkteigenschaften auf einen Blick

- 2 LED spotlights with holder
- Energy-saving
- Integrated electronics
- Adjustable stainless steel housing with horizontal mounting bracket
- Power consumption in preset RGB mode 36W, in random mode 72W
- Wet or dry installation
- Permanently waterproof
- Colours can be individually controlled via Easy Control (must be ordered separately)



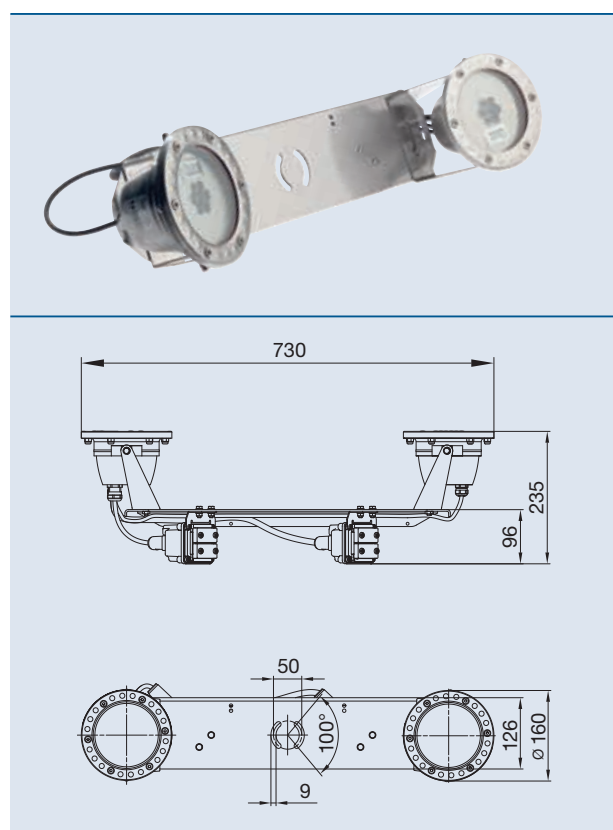
DMX-Channel	Function
Channel 1	red
Channel 2	green
Channel 3	blue
Channel 4	nozzle
Channel 5	bypass

### Accessories (must be ordered separately)

Connecting cable DMX/01 (see page 154)	Order no.
Connecting cable DMX/1.0 m/01	12368
Connecting cable DMX/3.0 m/01	12369
Connecting cable DMX/5.0 m/01	12371
Connecting cable DMX/10.0 m/01	12372
Connecting cable DMX/20.0 m/01	12373
End Resistant for Bus-System DMX/01	12007

Connecting cable 24V DC/01 (see page 155)	Order no.
Connecting cable 24V DC /1.0 m/01	12762
Connecting cable 24V DC /3.0 m/01	12552
Connecting cable 24V DC /7.5 m/01	12553
Connecting cable 24V DC /15.0 m/01	11720

Easy Control (see page 160)	50289
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Twin-Star LED /DMX/01	
Dimensions (L x B x H)	730 x 160 x 235 mm
Nominal voltage	24 V/DC
Consumption Current	1.5/3.0 A
Power consumption	36 – 72 W
Beam angle	6°
Protection class	IP 68
Power connection	1.0 m with Box
DMX connection	1.0 m with Box
Illumination range	ca. 10.0 m
Material	stainless steel
Weight	4.5 kg
Order no.	50336







# THE STAGE OF LIFE

WATER HAS A THOUSAND FACES. SOMETIMES IT SHOOTS UP HIGH, THEN SPLASHES AND BUBBLES EXUBERANTLY, OR IT IS TOTALLY STILL AND GENTLE. AND IT DOES ALL OF THIS WITH NOZZLES FROM OASE.

## SONY CENTER – SPRAY FOUNTAIN SYSTEM

### Location: Berlin

Modern pool design with stainless steel edge, and glass/marble floor characterises this fountain located on Potsdamer Platz in Berlin. A portion of the pool extends beyond the actual floor level and is freely suspended in space.

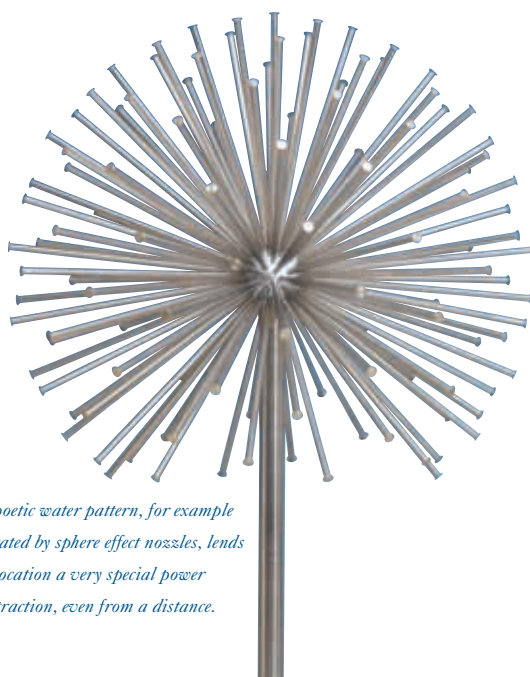
*OASE reference object, left*

Every location has its very special unique atmosphere. A public square, in the heart of the city looks different in Paris than it does in Dubai. An artistically designed park can give a sense of tranquil strength or contemplative well-being. Spray fountains and fountains from OASE enable you to enter into communication with the particularities of a location and to use the thousand faces of water to the best advantage of that location. Depending on the form and size of a water feature you can effectively support the location's atmosphere or introduce an exciting counterpoint. And you are always co-designer of this location; director on the wonderful stage of life. The OASE product range offers you a variety of possibilities to place your

creativity and intuition at the service of a particular location and to vitally shape its atmosphere with water.

- With spray fountain nozzles and fountain attachments in any form and size you can design stately fountains, playing falling water, baroque pirouettes, or powerful water arches.
- Our standard offering with many designs even satisfies complicated requirements.
- For particularly demanding architectural solutions we can also manufacture the suitable custom solution in consultation with you.

Only the difficulty of choice remains!



*The poetic water pattern, for example generated by sphere effect nozzles, lends any location a very special power of attraction, even from a distance.*

- |                           |          |
|---------------------------|----------|
| • Single-jet nozzles      | page 94  |
| • Hollow jet nozzles      | page 96  |
| • Water spheres           | page 97  |
| • Multi-jet nozzles       | page 98  |
| • Rotating nozzles        | page 99  |
| • Water film nozzles      | page 100 |
| • Foam effect nozzles     |          |
| - Water-level independent | page 102 |
| - Water-level dependent   | page 104 |
| • Vario-Switch            | page 108 |

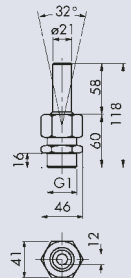
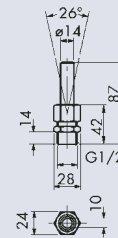
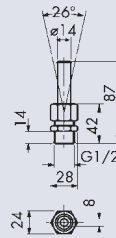
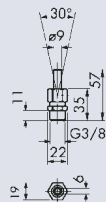
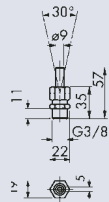
## COMET 3-5 T TO 15-17 T

Comet T



These single-jet nozzles generate a clear, full jet that is stable in wind.

These nozzles are usually arranged in a group. All sizes have a ball joint with which the jet can be pivoted up to 17° from the vertical plane. This feature makes it possible to generate interesting water patterns.



	Comet 3-5 T		Comet 3-6 T		Comet 5-8 T		Comet 5-10 T		Comet 10-12 T	
Dimensions (øxH) [mm]	21.9 x 58		21.9 x 58		27.6 x 87		27.6 x 87		47.3 x 118	
Fountain height	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar
0.50 [m]	3.8	0.07	4.8	0.06	9.5	0.07	15	0.08	21	0.06
0.75 [m]	5.3	0.09	6.2	0.09	11.5	0.10	19	0.11	25	0.08
1.00 [m]	6.3	0.13	7.2	0.12	12.6	0.16	21	0.14	31	0.11
1.25 [m]	7.2	0.15	8.7	0.15	14.9	0.10	25	0.18	35	0.14
1.50 [m]	8.0	0.18	9.9	0.18	17.0	0.18	28	0.20	39	0.17
1.75 [m]	8.7	0.22	11.1	0.21	18.8	0.20	31	0.25	43	0.21
2.00 [m]	9.3	0.25	12.1	0.25	20.5	0.24	33	0.28	46	0.23
2.50 [m]			13.9	0.32	23.4	0.32	37	0.36	53	0.29
3.00 [m]			15.6	0.40	26.1	0.39	41	0.44	58	0.35
3.50 [m]					28.5	0.47	45	0.52	63	0.42
4.00 [m]					30.7	0.54	49	0.60	68	0.48
5.00 [m]							55	0.76	76	0.61
6.00 [m]							60	0.92	84	0.74
7.00 [m]									91	0.87
8.00 [m]									98	1.00
9.00 [m]										
10.00 [m]										
11.00 [m]										
12.00 [m]										
13.00 [m]										
14.00 [m]										
Material	Brass		Brass		Brass		Brass		Brass	
Weight [kg]	0.06		0.06		0.13		0.13		0.45	
Order no.	50959		50960		50964		50965		50968	

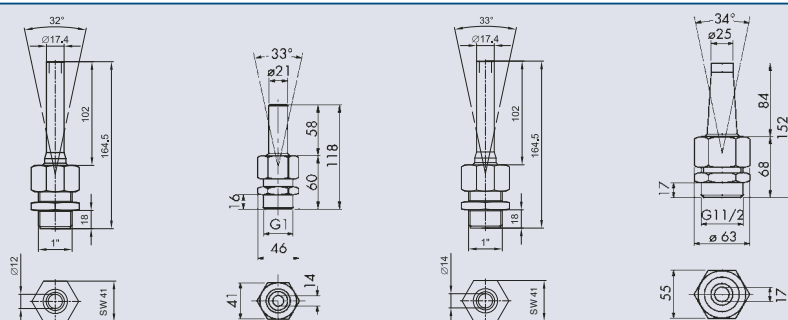


### Product characteristics at a glance

- Small to medium-sized clear-jet nozzles
- Fountain heights 0.5 m to 12.0 m
- Clear wind-stable full jet
- Up to 17° vertically pivoting ball joint
- Water-level independent
- Ideal in combination with BEST LED /DMX/01

(Comet 10-12 T long / Comet 10-14 T long only)

Comet T long



	Comet 10-12 T long		Comet 10-14 T		Comet 10-14 T long		Comet 15-17 T		[mm]	Dimensions (ø x H)
	47.3 x 165		47.3 x 118		47.3 x 165		63.3 x 152			
	DWB	DDB	DWB	DDB	DWB	DDB	DWB	DDB		Fountain height
	l/min	bar	l/min	bar	l/min	bar	l/min	bar		
	21	0.06	30	0.06	30	0.06	42	0.06	[m]	0.50
	25	0.08	37	0.09	37	0.09	52	0.09	[m]	0.75
	31	0.11	44	0.12	44	0.12	62	0.11	[m]	1.00
	35	0.14	50	0.15	50	0.15	69	0.14	[m]	1.25
	39	0.17	55	0.18	55	0.18	76	0.17	[m]	1.50
	43	0.21	60	0.21	60	0.21	82	0.19	[m]	1.75
	46	0.23	65	0.24	65	0.24	89	0.22	[m]	2.00
	53	0.29	73	0.30	73	0.30	100	0.28	[m]	2.50
	58	0.35	81	0.37	81	0.37	110	0.34	[m]	3.00
	63	0.42	87	0.43	87	0.43	119	0.40	[m]	3.50
	68	0.48	94	0.50	94	0.50	127	0.46	[m]	4.00
	76	0.61	105	0.62	105	0.62	135	0.52	[m]	5.00
	84	0.74	116	0.75	116	0.75	143	0.58	[m]	6.00
	91	0.87	125	0.88	125	0.88	157	0.70	[m]	7.00
	98	1.00	134	1.01	134	1.01	170	0.82	[m]	8.00
			143	1.14	143	1.14	182	0.94	[m]	9.00
			151	1.28	151	1.28	193	1.06	[m]	10.00
							204	1.18	[m]	11.00
							214	1.30	[m]	12.00
									[m]	13.00
									[m]	14.00
	Brass		Brass		Brass		Brass			Material
	0.46		0.45		0.46		0.86		[kg]	Weight
	<b>56780</b>		<b>50969</b>		<b>50218</b>		<b>50970</b>			<b>Order no.</b>

# HOLLOW JET NOZZLES



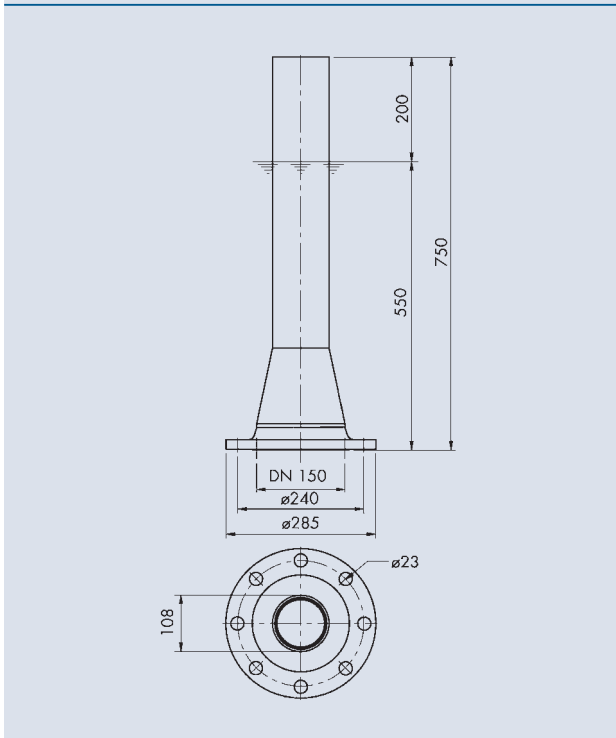
Imposing fountains up to 80 metres in height are shot high into the sky by OASE Hollow Jet nozzles.

The special nozzles for impressive fountain heights work independently of the water level, and with flow directors. Thanks to these features and the precise formation of the ring slot of the nozzle, a stable fountain jet is ensured at all times.

In comparison to full-jet nozzles, the sophisticated design of the Hollow Jet nozzle allows for a significant reduction of water requirements (also referred to as volume flow).

### Product characteristics at a glance

- For fountain heights of up to 80 m
- Wind-stable high jet
- Water-level independent
- Significantly reduced water requirements compared to full-jet nozzles
- With flow director
- Other types on request



		Hollow jet nozzle 100	
Dimensions (ø x H)		285 x 750 mm	
ø Hollow Jet		100 mm	
Water film thickness		4.0 mm	
		NWR l/min	NPR bar
7.50	[m]	890	0.90
10.00	[m]	1010	1.18
12.50	[m]	1100	1.40
15.00	[m]	1220	1.70
17.50	[m]	1315	1.95
20.00	[m]	1390	2.18
25.00	[m]	1600	2.85
30.00	[m]	1820	3.60
35.00	[m]	1985	4.25
40.00	[m]	2235	5.80
45.00	[m]	2600	7.20
50.00	[m]	2660	7.70
Material		Stainless steel	
Weight		33.0 kg	
Order no.		50973	

## WATER SPHERES

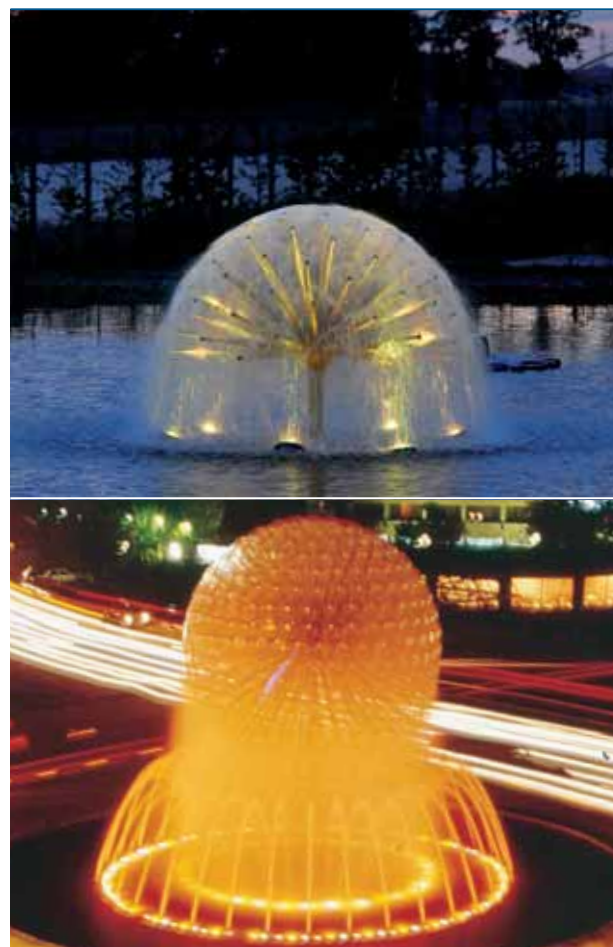
The poetic water pattern that is generated by the sphere effect nozzles requires a lot of space in order to unfold its enchanting effect. It lends any location a very special attractive force, even from a distance.

The fountain attachments are primarily made of stainless steel which makes them attractive sculptures even if they are not spraying water. However, their special flair unfolds once the fine waterveil escaping from the uniformly arranged nozzles forms a gentle sphere.

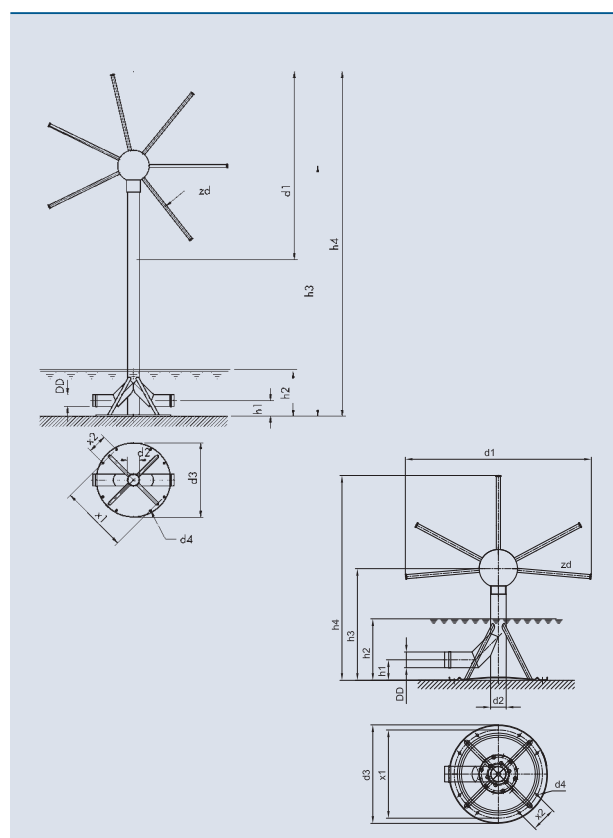
Depending on size the spheres consist of a different number of nozzles. Operation of the spheres and hemispheres is even possible in strong wind in spite of the relatively fine water veil.

### Product characteristics at a glance

- Poetic, surprising water pattern
- Decorative stainless steel sculpture
- Extensively wind-stable
- Water-level independent



	Water sphere 2500 hemisphere	Water sphere 2500 sphere
Dimensions (ø x H) [mm]	2500 x 1850	2500 x 3600
zd [pieces]	73	127
DWB [l/min.]	730	1270
DDB [bar]	1.1	1.2
MBD [mm]	3500	4500
DD [mm]	1x DN 65	2x DN 65
d1 [mm]	2500	2500
d2 [mm]	76	76
d3 [mm]	475	475
d4 [mm]	12	12
h1 [mm]	100	100
h2 [mm]	400	400
h3 [mm]	600	2350
h4 [mm]	1850	3600
x1 [mm]	430	430
x2 [mm]	123	123
Material	Stainless steel/tombac	
Weight [kg]	100	160
Order no.	51762	51759





# VULKAN 43-3 T

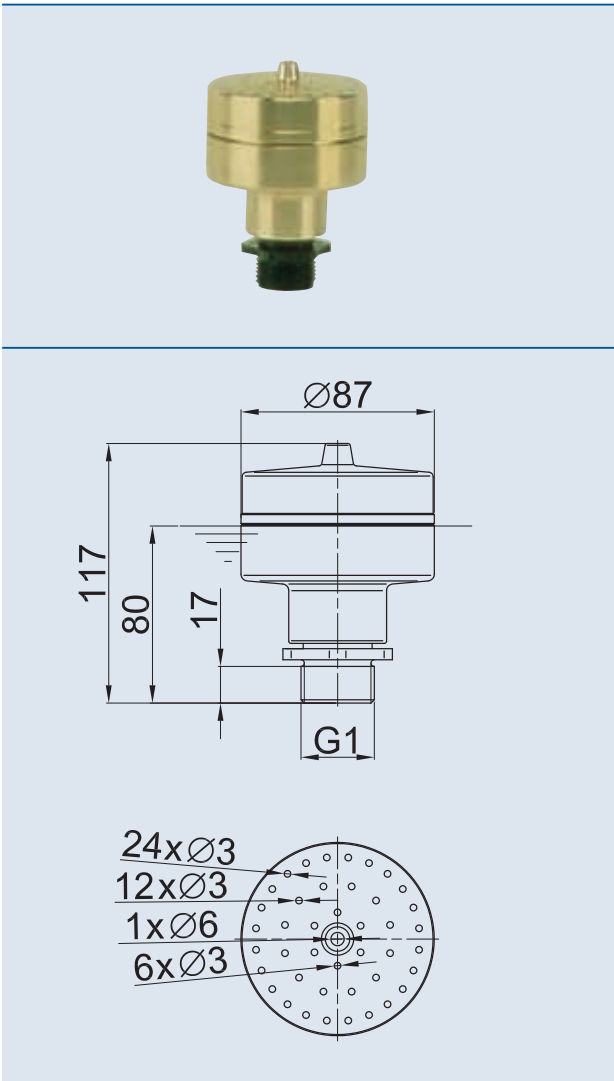


Whether small spray fountain or large water features, the Vulkan nozzle generate a bundle of jets from 0.5 to 4 m in height that fall in multiple stages. In this process the individual jets remain clear and relatively stable in wind.

The Vulkan 43-3 T is fitted with an infinitely-variable throttle to regulate fountain height. To clean the Vulkan 43-3 T the upper part can be easily removed.

### Product characteristics at a glance

- Attractive multi-stage water pattern
- Precise full jets that are stable in wind
- Water-level independent



		Vulkan 43-3 T		
Dimensions (ø x H)		87 x 116 mm		
Fountain height		DSD m	DWB l/min	DDB bar
0.50	[m]	0.40	42	0.10
0.75	[m]	0.50	50	0.15
1.00	[m]	0.65	60	0.20
1.50	[m]	0.80	76	0.30
2.00	[m]	1.10	90	0.40
2.50	[m]	1.30	102	0.50
3.00	[m]	1.50	112	0.60
3.50	[m]	1.70	121	0.76
4.00	[m]	2.00	130	0.88
Material		Tombac		
Weight		1.5		
Order no.		50950		

## ROTATING NOZZLE 5-30 E

Gracefully dancing fountains optimally enliven any water landscape and reach heights of up to 10 metres

Gentle rotating water patterns are generated by the recoil of the diagonally set nozzle pipes. With this rotating nozzle, 5 Comet (15-17E) nozzles that can be adjusted in all directions, rotate in a circle and create a wide variety of wind-stable water patterns.

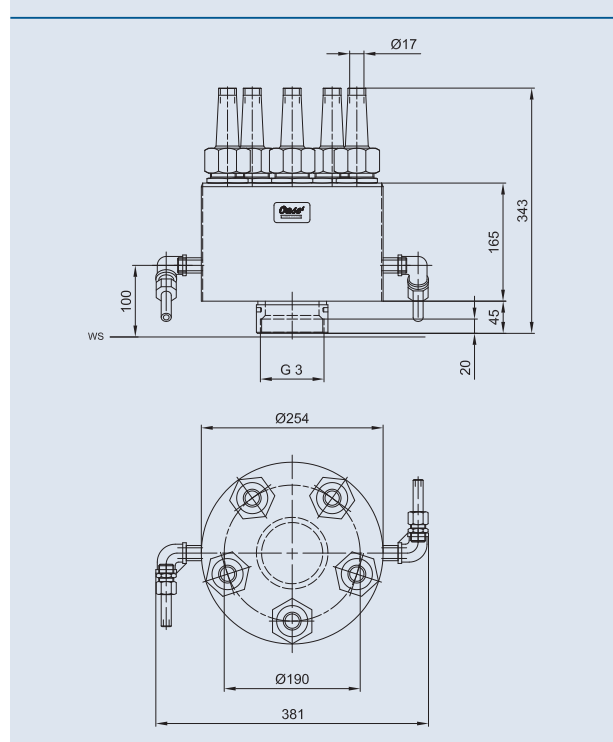
The ball bearing rotation mechanism ensures continuous trouble-free operation.

### Product characteristics at a glance

- Rotating screw-shaped water pattern
- Precise full-jets
- Water-level independent



		Rotating nozzle 5-30 E		
Dimensions (ø x H)		381 x 343 mm		
Fountain height		DSD m	DWB l/min	DDB bar
1.00	[m]	var.	330	0.15
2.00	[m]	var.	500	0.30
3.00	[m]	var.	630	0.50
4.00	[m]	var.	740	0.60
5.00	[m]	var.	790	0.75
6.00	[m]	var.	875	0.90
7.00	[m]	var.	980	1.10
8.00	[m]	var.	1050	1.30
9.00	[m]	var.	1110	1.50
10.00	[m]	var.	1170	1.60
Material		Stainless steel/brass		
Weight		17.5		
Order no		50473		



## GUSHING NOZZLE 115-15T

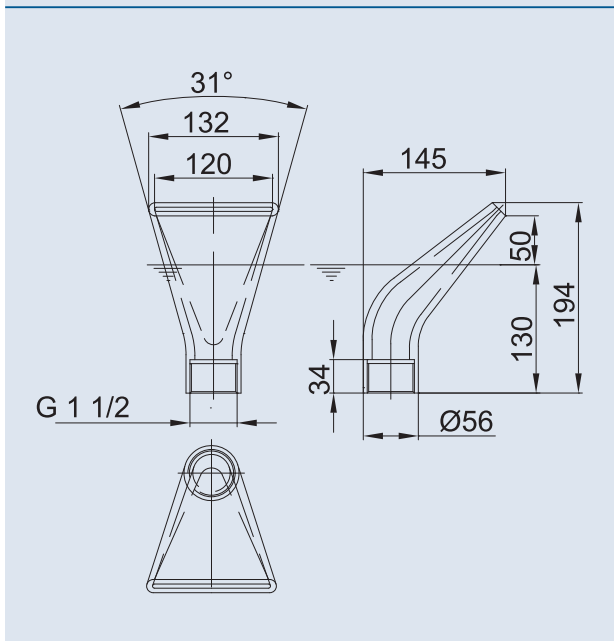


Whether as single nozzle or as group arranged around a central nozzle – the gushing nozzle generates a full water pattern of impressive presence.

The gushing nozzle spouts a fan-shaped water surge that is mostly closed, with a thickness of 6 mm and a radiating angle of approximately 30°.

### Product characteristics at a glance

- Striking water pattern
- Extensively wind-stable
- Water-level independent



		Gushing nozzle 115-15 T			
Dimensions (L x W x H)		132 x 145 x 194 mm			
Fountain weight		PH m	SPB m	DWB l/min	DDB bar
0.50	[m]	0.10	0.25	94	0.04
0.75	[m]	0.15	0.33	112	0.06
1.00	[m]	0.20	0.42	131	0.08
1.25	[m]	0.26	0.50	150	0.10
1.50	[m]	0.33	0.58	168	0.12
1.75	[m]	0.40	0.67	187	0.14
2.00	[m]	0.48	0.75	205	0.15
2.50	[m]	0.62	0.92	243	0.19
3.00	[m]	0.77	1.08	280	0.23
3.50	[m]	0.92	1.25	317	0.27
4.00	[m]	1.06	1.42	354	0.31
4.50	[m]	1.21	1.58	392	0.34
Material		Tombac			
Weight [kg]		2.5			
Order no.		50976			



## FAN JET 10-6 E AND 15-8 E

The water veil generated by these nozzles not only has a bizarre beauty, it is also extremely practical: It is particularly well suited to conceal exposed technology.

Depending on the installation the fan nozzles generate either a vertically ascending water veil, or a diagonally spouting water veil of 6 or 8 mm in thickness. Thanks to its large surface distribution the attractive water pattern can conceal a foundation base, or exposed pipe and pump equipment from the eyes of observers.

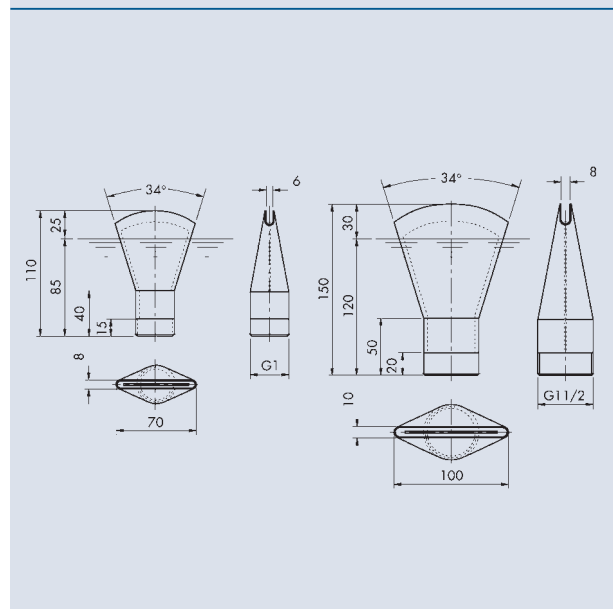
The nozzles work independently of the water level and require a throttle supplied by the contractor to regulate the water pattern.

### Product characteristics at a glance

- 6 mm or 8 mm thick, fan-shaped  
Water gushing effect
- Water-level independent
- Modern stainless steel look



		Fan Jet 10 - 6 E			Fan Jet 15 - 8 E		
Dimensions (L x W x H)		110 x 70 x 34 mm			150 x 100 x 49 mm		
Fountain height		SPB	DWB	DDB	SPB	DWB	DDB
		m	l/min	bar	m	l/min	bar
0.25	[m]	0.60	70	0.04			
0.50	[m]	1.00	94	0.06	1.40	143	0.06
0.75	[m]	1.50	116	0.11	1.80	174	0.09
1.00	[m]	2.00	134	0.13	2.80	200	0.11
1.25	[m]	2.80	150	0.16	3.40	223	0.14
1.50	[m]	3.00	165	0.19	4.00	244	0.17
1.75	[m]	3.80	179	0.23	5.00	264	0.20
2.00	[m]				5.50	282	0.25
Material		Stainless steel			Stainless steel		
Weight [kg]		0.25			0.49		
Order no.		53056			53047		





## SCHAUMSPRUDLER 35-10 E TO 55-15 E SCHAUMQUELL 50-10 T AND 75-20 T

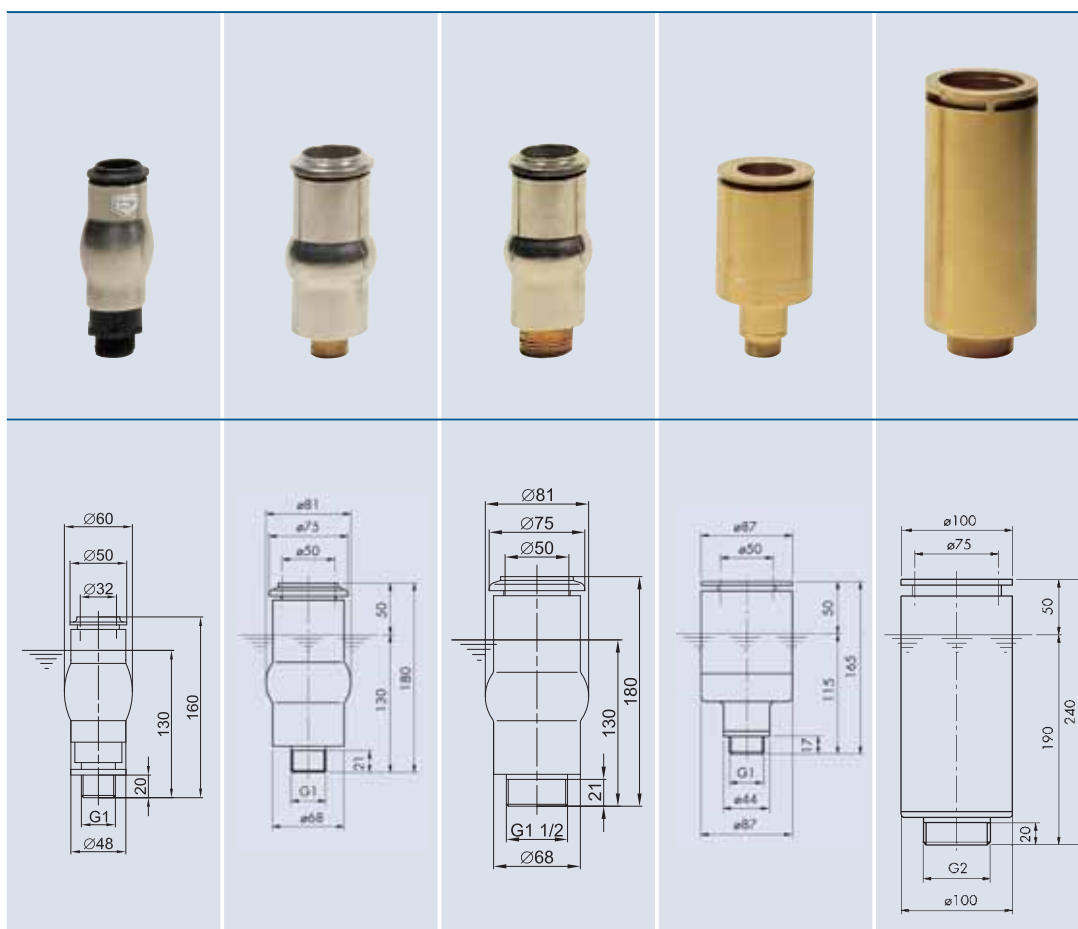
The lively bubbling water pattern generated by the foam effect nozzles is the optimal accessory for watercourse inlets, stepped pool installations, or fountain installations with a water reservoir at a lower level.

By mixing air with water, the pattern appears to be extremely high-volume. Nevertheless the nozzles actually have a low water requirement. The beautiful soft foam jet offers a strong contrast to its environment.

As opposed to Cascade and Geyser nozzles, Schaumsprudler and Schaumquell nozzles work independently of the water level so that fluctuations in the water level do not affect the water pattern.

### Product characteristics at a glance

- High-contrast, lively water pattern
- Foam / spume effect
- Trouble-free continuous operation
- Offers oxygen enrichment
- Extensively wind-stable
- Water-level independent



	Schaumsprudler 35-10 E		Schaumsprudler 55-10 E		Schaumsprudler 55-15 E		Schaumquell 50-10 T		Schaumquell 75-20 T	
Dimensions (øxH) [mm]	60 x 160		81 x 180		81 x 180		87 x 165		100 x 240	
Fountain height	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar
0.25 [m]	47	0.10	60	0.11						
0.50 [m]	55	0.14	84	0.21	125	0.11	126	0.23		
0.75 [m]	71	0.22	108	0.32	151	0.15	145	0.30		
1.00 [m]	80	0.28	122	0.40	176	0.19	162	0.37	328	0.20
1.25 [m]	89	0.34	134	0.49	198	0.24	177	0.45	367	0.24
1.50 [m]	97	0.40	145	0.58	217	0.28	191	0.52	401	0.29
1.75 [m]	104	0.46	156	0.66	235	0.33	204	0.59	433	0.34
2.00 [m]	111	0.52	166	0.75	252	0.38	216	0.66	463	0.39
2.50 [m]	123	0.65	184	0.92	282	0.48	239	0.81	518	0.49
3.00 [m]			200	1.09	310	0.58	259	0.96	567	0.58
3.50 [m]			216	1.27	335	0.67	278	1.10	612	0.68
4.00 [m]					359	0.77	296	1.25	655	0.78
4.50 [m]					381	0.87	313	1.39	695	0.87
5.00 [m]					402	0.97	329	1.54	733	0.97
6.00 [m]					441	1.16			803	1.17
7.00 [m]					477	1.36			868	1.33
8.00 [m]									928	1.56
9.00 [m]									965	1.75
10.00 [m]									1039	1.95
Material	Stainless steel/plastic		Stainless steel		Stainless steel		Tombac		Tombac	
Weight [kg]	0.5		1.2		1.4		2.2		4.3	
Order no.	50984		50986		50987		50979		50980	



## CASCADE 50 T TO CASCADE 130 T



These injector nozzles generate a lively full water pattern that changes depending on the water level and accentuates every public area.

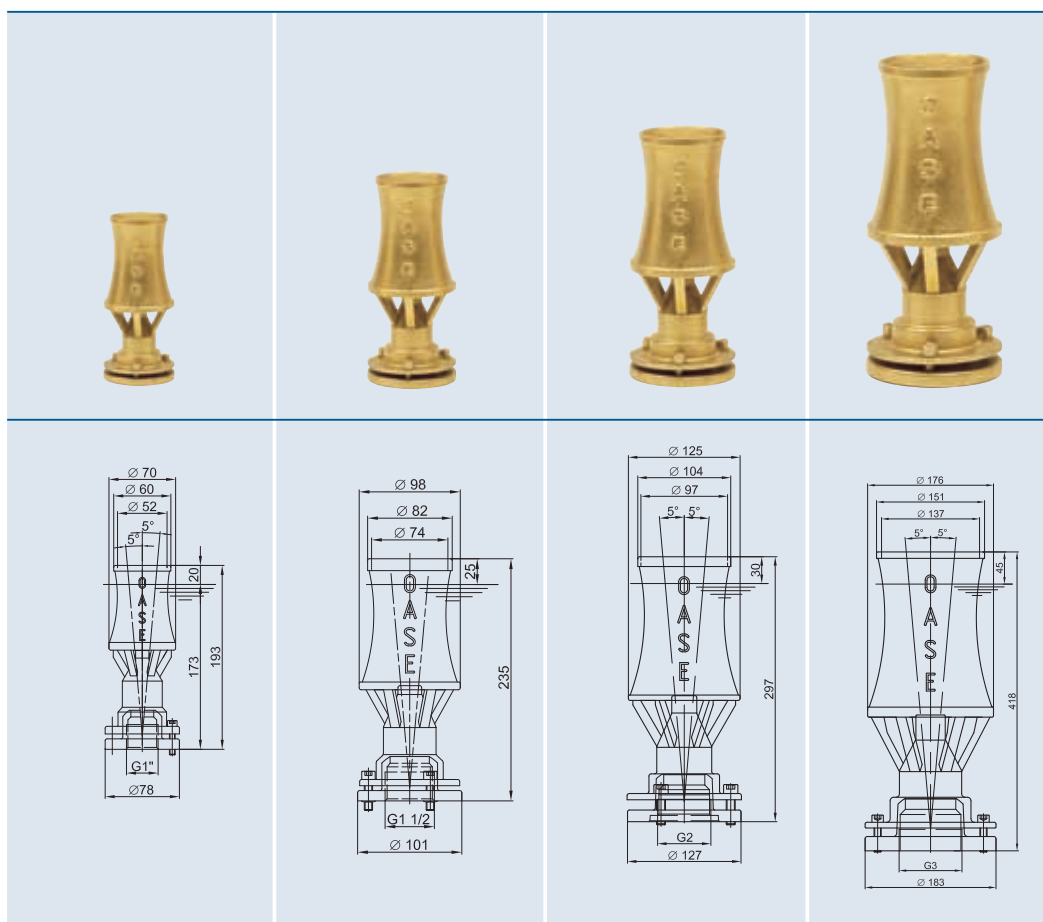
Thanks to the injector effect, water and air are suctioned in, mixed intensively and accelerated into the air by the injector jet as an impressive soft flowing fountain. In this process a voluminous fountain that forms a point is generated with relatively low pump capacities.

The foam effect nozzles work depending on the water level; they generate a slender and higher water pattern if the normal water level is not reached. If the normal water level is exceeded the water pattern is fuller and lower. This effect is particularly interesting when there are strong wave movements; then the fountains really start to dance.

In installations with a different water level, non-return valves should be provided, otherwise the water level will drop to injector height once the installation is switched off.

### Product characteristics at a glance

- Lively water effect
- Foam/spume effect
- Offers oxygen enrichment
- Adjusting flange for alignment
- Water pattern is water-level dependent



		Cascade 50 T		Cascade 70 T		Cascade 90 T		Cascade 130 T	
Dimensions (LxWxH)	[mm]	78 x 192		100 x 237		125 x 294		176 x 410	
Fountain height		DWB	DDB	DWB	DDB	DWB	DDB	DWB	DDB
		l/min	bar	l/min	bar	l/min	bar	l/min	bar
0.25	[m]	28	0.18						
0.50	[m]	34	0.26	79	0.27				
0.75	[m]	39	0.33	88	0.33	141	0.27		
1.00	[m]	43	0.41	97	0.40	157	0.33	379	0.36
1.50	[m]	51	0.57	111	0.53	184	0.46	437	0.48
2.00	[m]	58	0.73	124	0.66	208	0.58	488	0.60
2.50	[m]	69	1.04	136	0.79	229	0.71	534	0.72
3.00	[m]	74	1.20	147	0.92	249	0.83	577	0.84
4.00	[m]	79	1.36	166	1.18	284	1.08	654	1.07
5.00	[m]	88	1.68	184	1.44	315	1.34	723	1.34
6.00	[m]			200	1.71	344	1.59	786	1.55
7.00	[m]			215	1.97	370	1.85	845	1.79
8.00	[m]					395	2.10	900	2.04
10.00	[m]					441	2.61	1001	2.52
12.00	[m]							1094	3.01
14.00	[m]							1180	3.50
16.00	[m]							1260	3.99
18.00	[m]							1336	4.49
20.00	[m]							1408	4.99
Material		Tombac		Tombac		Tombac		Tombac	
Weight	[kg]	1.0		2.4		3.6		11.0	
Order no.		50911		50912		50915		50917	

## GEYSER 20 T TO GEYSER 100 T



Like the Cascade nozzles, these injector nozzles also generate a water pattern that changes depending on water level, however the Geyser foam effect nozzles generate a slender, more cylindrical shaped fountain.

Thanks to the injector effect water and air are suctioned in, mixed intensively and accelerated into the air by the injector jet as an impressive soft flowing fountain. In this process a voluminous fountain is generated using relatively low pump capacities.

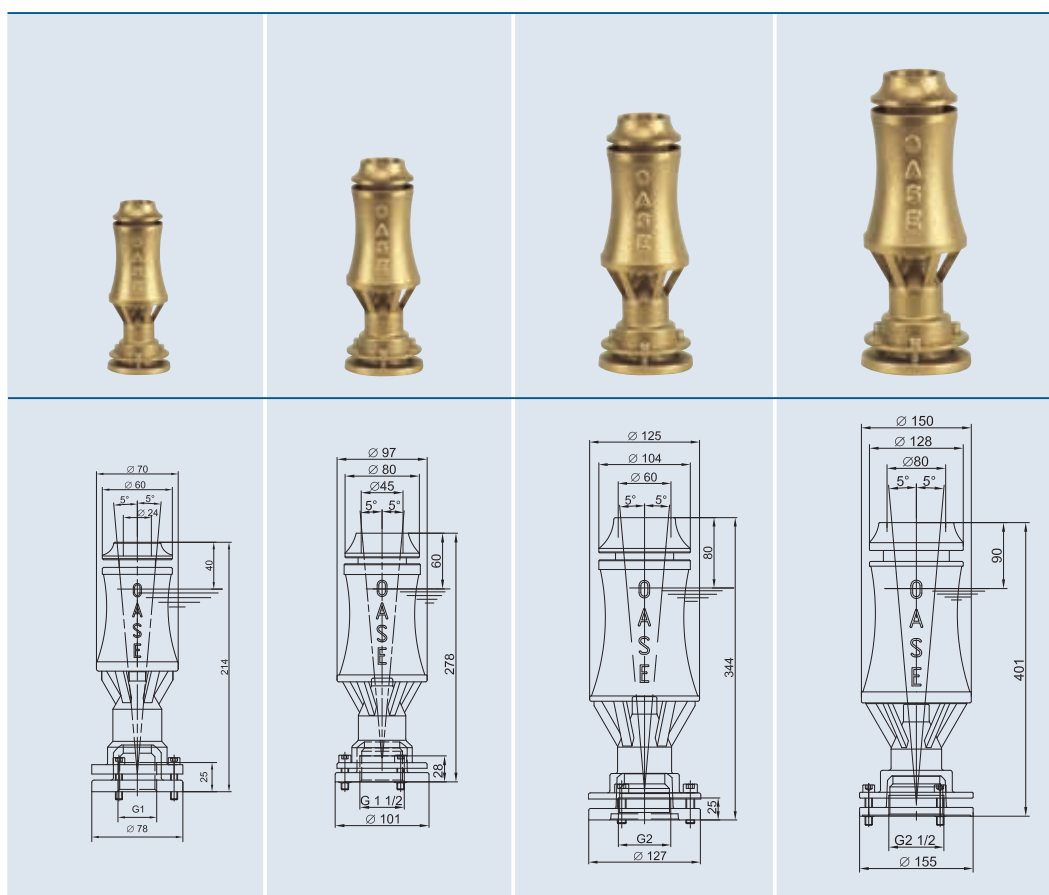
The foam effect nozzles that work depending on the water level generate a slender and higher water pattern if the normal water level is not reached. If the normal water level is exceeded the water pattern is fuller and lower. This effect is particularly interesting when there are strong wave movements; then the fountains really start to dance.

In installations with a different water level, non-return valves should be provided, otherwise the water level will drop to injector height once the installation is switched off.

### Product characteristics at a glance

- Lively water effect
- Foam / spume effect
- Offers oxygen enrichment
- Adjusting flange for alignment
- Water pattern is water-level dependent





		Geyser 20 T		Geyser 40 T		Geyser 60 T		Geyser 80 T	
Dimensions (øxH)	[mm]	78 x 227		98 x 210		125 x 335		156 x 406	
Fountain height		DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar
0.50	[m]	30	0.20	82	0.27	128	0.24		
0.75	[m]	33	0.25	89	0.31	140	0.29		
1.00	[m]	37	0.30	95	0.35	151	0.34	242	0.37
1.50	[m]	42	0.39	105	0.43	171	0.43	273	0.47
2.00	[m]	47	0.49	115	0.52	189	0.53	301	0.57
2.50	[m]	52	0.59	124	0.60	205	0.62	327	0.67
3.00	[m]	56	0.69	133	0.69	220	0.72	350	0.77
4.00	[m]	64	0.89	149	0.86	247	0.91	394	0.97
5.00	[m]	71	1.08	163	1.03	272	1.09	433	1.18
6.00	[m]	77	1.28	176	1.20	295	1.29	469	1.38
7.00	[m]			188	1.38	316	1.57	503	1.59
8.00	[m]			199	1.55	336	1.67	534	1.79
10.00	[m]					373	2.06	593	2.21
12.00	[m]					407	2.44	646	2.62
14.00	[m]							696	3.04
16.00	[m]							742	3.46
18.00	[m]							786	3.88
20.00	[m]							828	4.30
25.00	[m]								
30.00	[m]								
Material		Tombac		Tombac		Tombac		Tombac	
Weight	[kg]	1.5		3.2		5.3		9.3	
Order no.		50991		50992		50993		50994	

# VARIO-SWITCH



In musical water organs or other spray fountain installations with dynamic elements water becomes lively with help from Vario switch systems.

This water switch is combined with a suitable nozzle and switches between two outputs – similar to a 3/2-way valve – almost without pressure loss and without water hammer effects in the lines. Normally one of these outputs is used as a pure bypass, however a second nozzle can also be mounted.

The air supply for alternately switching atmospheric pressure on and off is executed via the telescopic tube using the so-called Coanda effect. Switchover time is flow dependent and times of 0.1 s are certainly achievable.

## Product characteristics at a glance

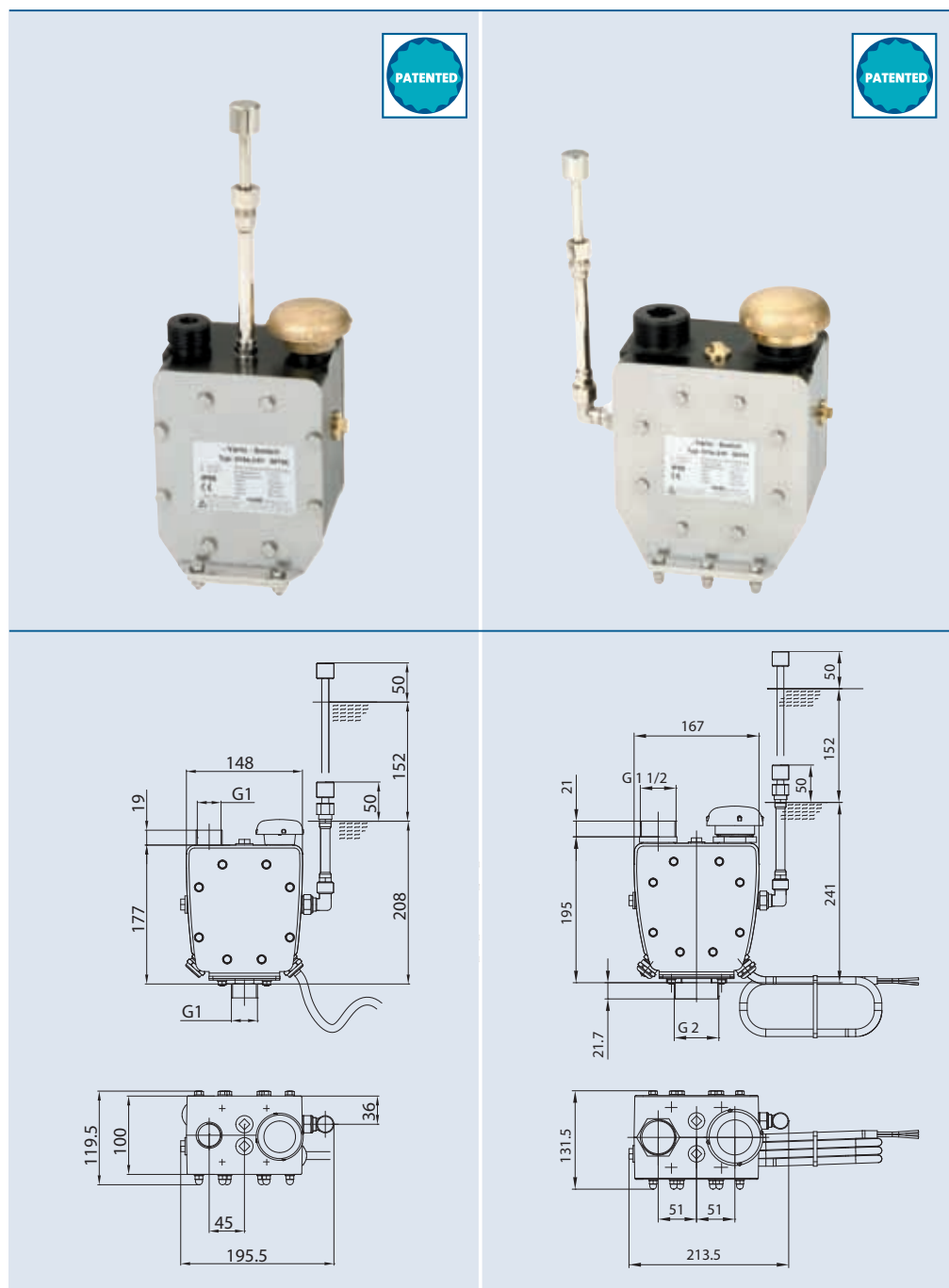
- Dynamically variable water effect for musical water organs or interactive water effects
- Thanks to the Coanda effect switchover is virtually executed without pressure loss
- Power-saving electrical valve technology
- Stable construction and stainless steel side pieces
- With four-core connection cable provided by contractor
- Low maintenance if there are good water conditions
- No-maintenance membrane valves

Water flow and pressure requirements of the Vario-Switch with different nozzles

Model Nozzle	Vario-Switch 010a/12V + Vario-Switch 010a/24V						Vario-Switch 015a/12V + Vario-Switch 015a/24V			
	Comet 10-12T		Comet 10-14T		Schaumspudler 35-10E		Comet 15-17T		Schaumspudler 55-15E	
Fountain height [m]	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min	DDB bar	DWB l/min
0.5	0.21	27	0.25	31	0.42	38	0.16	100	0.50	158
1.00	0.35	37	0.46	40	0.72	49	0.22	123	0.92	209
1.50	0.60	46	0.66	48	0.98	57	0.32	137	1.42	255
2.00	0.72	50	0.86	55	1.22	63	0.42	154	1.92	291
2.50	0.86	55	1.06	61	1.52	70	0.52	168	2.48	322
3.00	1.02	60	1.32	67	1.80	76	0.62	181	2.80	343
3.50	1.22	65	1.55	73	2.10	81	0.72	192		
4.00	1.38	70	1.82	79			0.82	202		
4.50	1.64	75	1.96	82			0.92	214		
5.00	1.82	80	2.18	87			1.02	218		
5.50	2.10	85	3.00	96			1.12	230		

DDB= Nozzle pressure requirement

DWB= Nozzle water requirement



Vario-Switch	010a/12V	010a/24V	015a/12V	015a/24V
Dimensions (LxWxH) [mm]	150 x 120 x 210	150 x 120 x 210	170 x 130 x 240	170 x 130 x 240
Nominal voltage	12V / AC	24V / DC	12V / AC	24V / DC
Power consumption [W]	2 x 8	2 x 8	2 x 8	2 x 8
Flow rate min. [l/min]	35.0	35.0	85.0	85.0
Flow rate max. [l/min]	95.0	95.0	325.0	325.0
Pressure min. [bar]	0.1	0.1	0.2	0.2
Pressure max. [bar]	3.4	3.4	3.0	3.0
Protection class	IP 58	IP 58	IP 58	IP 58
Strainer [ø mm]	2	2	2	2
Material	Polyacetal / Stainless steel	Polyacetal / Stainless steel	Polyacetal / Stainless steel	Polyacetal / Stainless steel
Weight [kg]	5.2	5.2	6.7	6.7
Cable length [m]	2.0	2.0	2.0	2.0
Order no.	50253	57472	50254	57435







# POWERHOUSES FOR ALL PURPOSES

WHILE ALL EYES ARE ON MOVING WATER WHEN IT TAKES THE STAGE, PUMPS PERFORM THEIR UNFLAGGING INDISPENSABLE WORK QUIETLY AND RELIABLY.

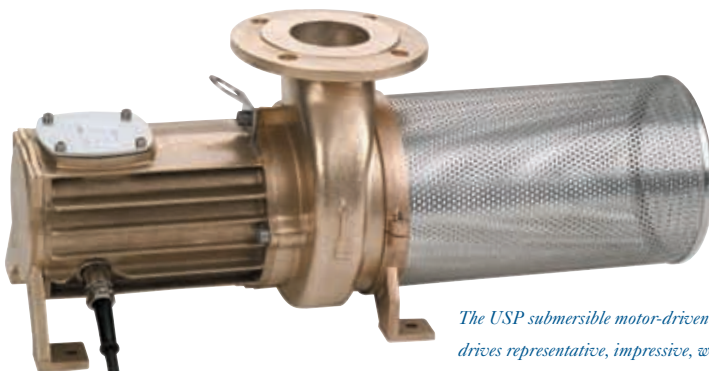
High fountains as attractive landmarks and highly visible signs of power and success unfold their impressive effect day and night.

Pumps are the beating heart in every system that conducts water. Nothing runs without them. They reliably perform their work day and night, underwater, out of the water, in spray fountains, ponds, or lakes. They ensure that we can take pleasure in the never-ending play of water; they enable fountains, water features, watercourses, and water falls to come alive, and ensure that the water is always clear. In the process, depending on type and task, they move unbelievable masses of water to its respective destination.

OASE offers the suitable pump for any requirement. All of them are extremely robust and powerful, and they are specialists in their area:

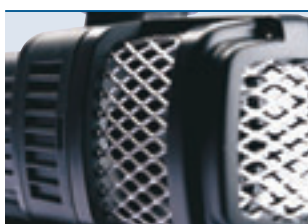
- Submersible motor-driven pumps supply water features and fountains.
- Universal pumps are suitable for wet and dry installation.
- Block centrifugal pumps are characterised by their compact dimensions for dry installations.
- Water feature and filtration pumps shine with sophisticated design and excellent endurance characteristics.

So: Let's open the curtain for these untiring powerhouses.



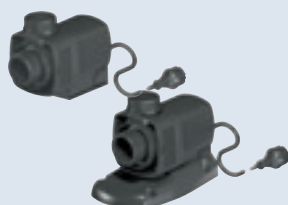
*The USP submersible motor-driven pump drives representative, impressive, water features for rigorous requirements.*

• Filtration pumps	page 112
• Water feature pumps	page 115
• Universal pumps	page 117
• Block centrifugal pumps	page 120
• Submersible motor-driven pumps	page 122
• DMX pumps	page 124



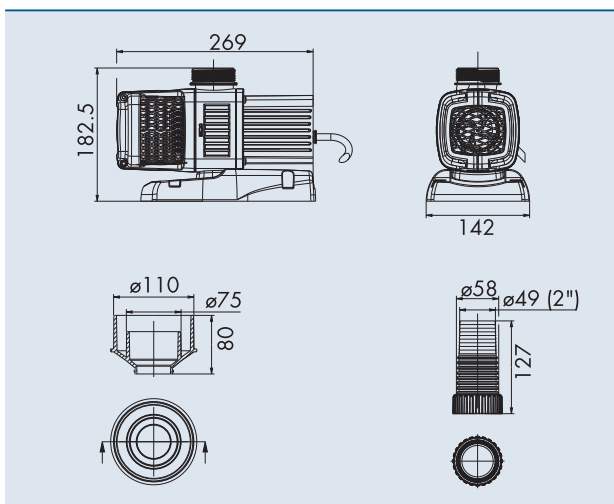
#### Robust, stainless steel filter basket

Coarse pollutant particles up to 6 mm in size are displaced with no problems.



#### Compact base

Integrated mounting bores in the base facilitate fixed installation on the pond floor, as needed.



Optimax		10000	15000	20000
Dimensions (L x W x H)	[mm]	272 x 142 x 182		
Rated voltage		220 – 240 V / 50 Hz		
Power consumption	[W]	65	85	120
Nominal current	[A]	0.57	0.41	0.54
Litres per minute max.	[l/min]	167	250	300
Litres per hour max.	[l/h]	10000	15000	18000
Head height max.	[m]	1.3	1.8	2.2
Pressure-side connection		2"	2"	2"
Suction-side connection		2"	2"	2"
Hose connection		2"	2"	2"
Weight	[kg]	4.0	4.0	4.0
Cable length	[m]	10.0	10.0	10.0
Order no.		57091	57092	57093

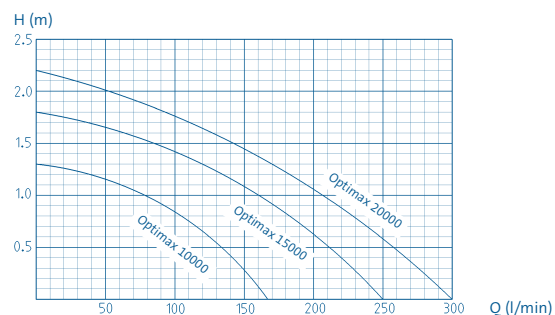
## OPTIMAX 10000/15000/20000

Unique and highly economical filtration pumps: Especially developed to meet the requirements in gravity operated filter installations (gravitation principle).

### Product characteristics at a glance

- Coarse pollutant displacement of particles up to 6 mm in size
- Flow-optimised impellers ensure a high-level of energy efficiency
- High circulation capacities of 10000 to 18000 litres per hour
- Long service life
- Suitable submersed or dry-installed
- Suitable for use in swim ponds and bathing ponds
- Included adaptor set 2"/DA 63 and DA 75/DA 100
- 3+2 year guarantee

### Pump performance curves





## PROMAX 20000/30000

Promax high-performance pumps are designed for implementation in filter systems or for water-courses and waterfalls. They have two spatially separated motors that can be separately switched on or off via the supplied remote control unit.

### Product characteristics at a glance

- Patented Economic Flow Regulator principle (EFR) minimises flow losses
- Intelligent sensor-based wintering technology; function status is shown by the indicator light on the receiver unit at all times
- Two motors that are spatially separated can be switched on and off independently via the supplied remote control unit (Functions: On, Off, and Dim)
- Power consumption is reduced through the possibility of motor activation (off, dim)
- Electronic adjustment
- Large-surface wrap-around filter ensures long service life
- Coarse debris displacement of particles up to 8 mm in size
- Combination of pond floor filtration and supplemental skimmer function is possible thanks to two suction ducts
- Suitable for use in swim ponds and bathing ponds
- 3+2 year guarantee



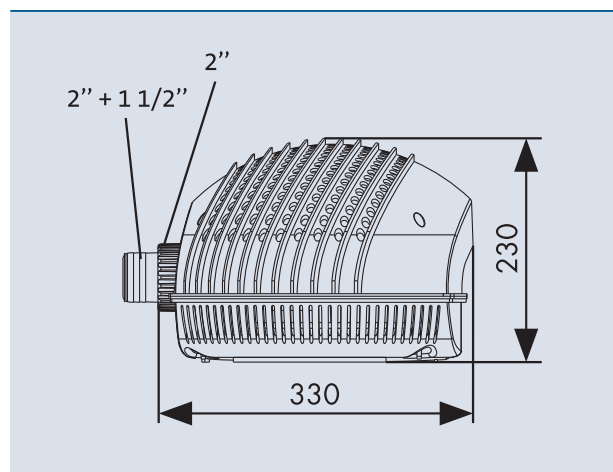
#### Patented mechanism

A patented »intelligent« flap inside the Promax ensures optimal flow-through to the single outlet from the two individual motor outlets

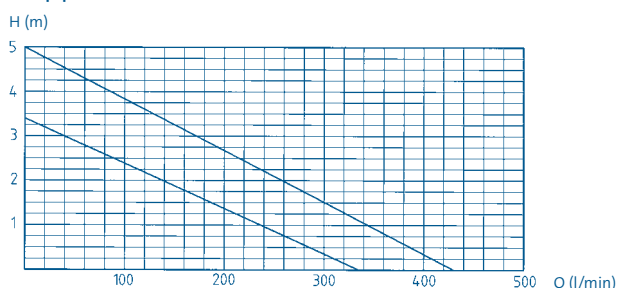


#### Two energy-efficient motors

Connected with an efficient distributor to one 2" outlet

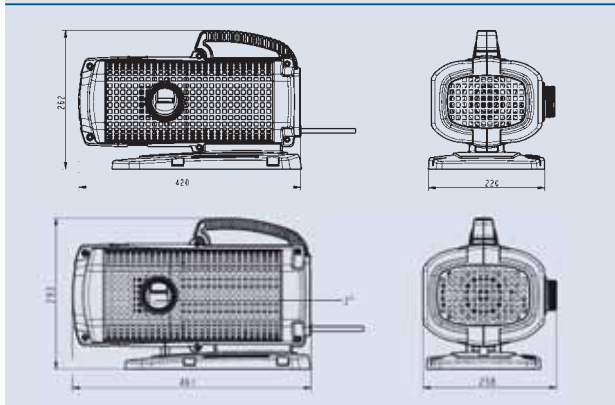


### Pump performance curves



Promax	20000	30000
Dimensions (L x W x H) [mm]	380 x 330 x 230	
Rated voltage	220 – 240 V / 50 Hz	
Power consumption [W]	285	500
Nominal current [A]	1.42	2.03
Litres per minute max. [l/min]	335	430
Litres per hour max. [l/h]	20100	25800
Head height max. [m]	3.4	5.0
Pressure-side connection	2"	2"
Suction-side connection	2 x 1 1/2"	2 x 1 1/2"
Hose connection	3/4", 1 1/4", 1 1/2", 2"	3/4", 1 1/4", 1 1/2", 2"
Filter surface [cm²]	1300	1300
Weight [kg]	7.5	8.0
Cable length [m]	10.0	10.0
Order no.	55441	55442

# PROFIMAX



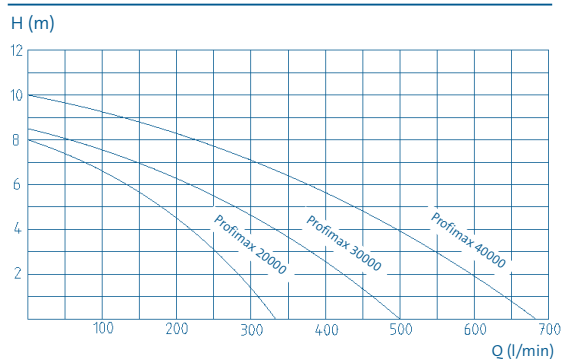
With this exceptional filtration and water-course pump you can design entirely new and exclusive water landscapes.

Profimax pumps feed impressive waterfalls and bubbling watercourses without effort, or supply the filter system with a sufficient quantity of pond water to ensure a healthy pond ecology. They are impressive with a robust design and offer powerful and enduring performance.

## Product characteristics at a glance

- Outstanding flow rate
- Displacement of coarse particles up to 8 mm
- Extremely stable
- Can remain in the pond during winter even if frozen in completely
- Submersible and dry installation

## Pump performance curves



	Profimax 20000	Profimax 30000	Profimax 40000
Dimensions (L x W x H)	[mm] 420 x 240 x 266	420 x 240 x 266	460 x 260 x 297
Rated voltage	[V/Hz] 220 – 240 / 50	220 – 240 / 50	220 – 240 / 50
Power consumption	[Watt] 450	650	1100
Nominal current	[A] 1.98	2.97	4.90
Flow rate max.	[l/min] 333	500	680
Flow rate max.	[l/h] 20000	30000	41000
Head height max.	[m] 8.0	8.5	10.0
Hose connection	[inch] 1", 1 1/2", 2"	1", 1 1/2", 2"	1", 1 1/2", 2"
Pressure side connection	[inch] 2"	2"	2"
Suction side connection	[inch] 2"	2"	2 1/2"
Filter surface	[cm <sup>2</sup> ] 1320	1320	1620
Weight	[kg] 15.0	15.0	17.0
Order no.	56873	56874	56875

# PROFINAUT

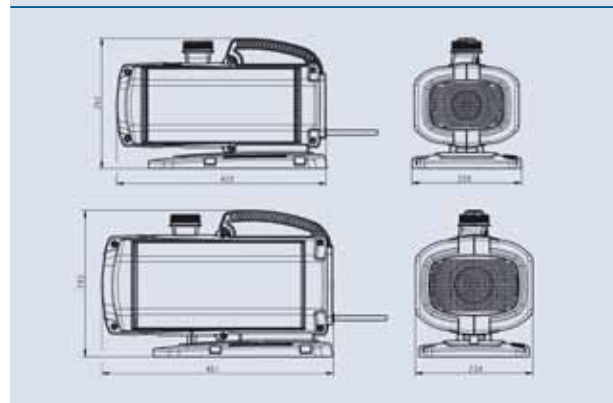
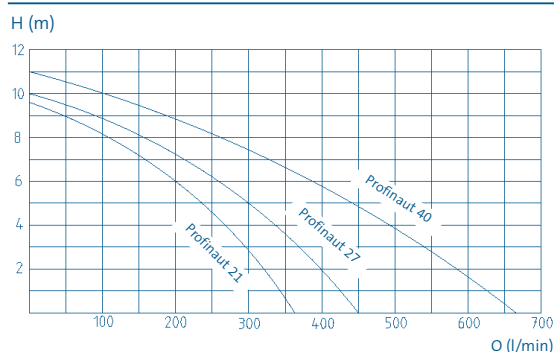
With a delivery head of up to 11 metres and a flow rate of up to 40,000 litres per hour, Profinaut pumps create water features of impressive stature.

These powerhouses have been especially designed for underwater operation. Their robustness also allows for dry installation. Profinaut pumps offer several additional highlights: They are extremely stable and can remain in the water during the winter. One practical detail is the handle that has been optimally mounted relative to the centre of gravity, which facilitates setup and transport. With three different performance variants they suit any attractive spray fountain installation.

## Product characteristics at a glance

- Very powerful and stable
- Can remain in the pond during winter even if frozen in completely
- Submersible and dry installation

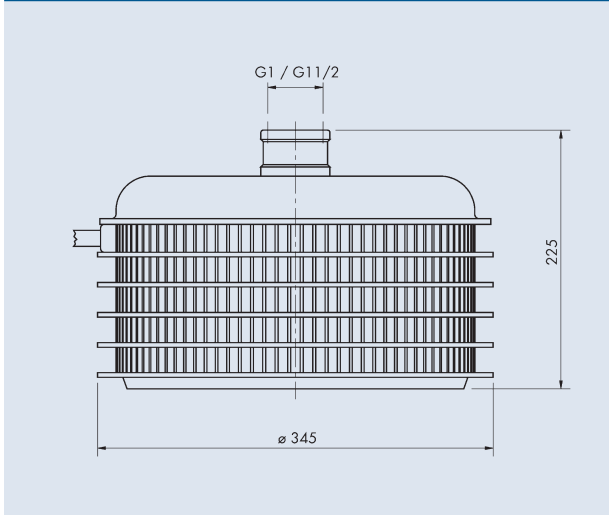
## Pump performance curves



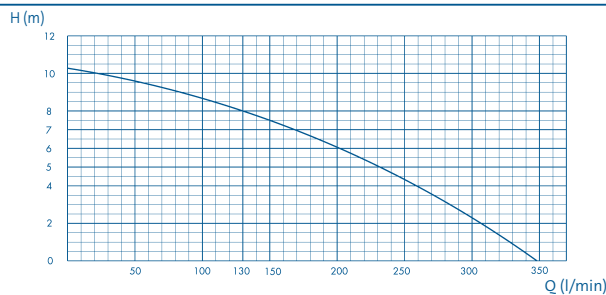
		Profinaut 21	Profinaut 27	Profinaut 40
Dimensions (L x W x H)	[mm]	420 x 220 x 266	420 x 220 x 266	460 x 234 x 297
Rated voltage	[V/Hz]	220 – 240 / 50	220 – 240 / 50	220 – 240 / 50
Power consumption	[Watt]	470	645	1000
Nominal current	[A]	2.09	2.94	4.78
Flow rate max.	[l/min]	363	450	667
Flow rate max.	[l/h]	21800	27000	40000
Head height max.	[m]	9.6	10.0	11.0
Hose connection	[inch]	1", 1 1/2", 2"	1", 1 1/2", 2"	1", 1 1/2", 2"
Pressure side connection	[inch]	2"	2"	2"
Suction side connection	[inch]	2"	2"	2 1/2"
Filter surface	[cm <sup>2</sup> ]	1350	1350	1650
Weight	[kg]	15.0	15.0	17.0
Cable length	[m]	10.0	10.0	10.0
Order no.		56870	56871	56872



# ATLANTIS 200



Pump performance curve



Atlantis 200	
Dimensions (ø x H)	345 x 225 mm
Rated voltage	230 V / 50 Hz
Power consumption	550 W
Nominal current	2.60 A
Pressure side connection	1", 1 1/2"
Filter surface	1325 cm <sup>2</sup>
Cable length	10.0 m
Material	V2A, Tb, ABS
Weight	17.0 kg
Order no.	52004

This high-performance submersible water feature-/motor-driven pump has been especially designed for underwater operation in spray fountain installations. The use of high quality materials such as stainless steel, tombac, and glass-fibre reinforced materials underline its solid construction.

The symmetric, high-volume filter housing ensures stability. Special holders for symmetric arrangement of underwater spotlights are available on request.

The pump has a robust wet-running canned motor and works without shaft seal. Motor and pump shaft as well as bearings are made of oxide ceramic, which contributes to endurance that is especially quiet and low friction.

## Product characteristics at a glance

- Symmetric form for maximum stability
- Robust wet-running canned motor
- High-volume filter basket made of high-quality plastic

## Accessories (must be ordered separately)

### InScenio FM-Profimaster (not available in the UK)

Optimal connection technology adapted to specific components offers maximum safety for your customers and long service-life for consumers.



Dimensions (L x W x H)	215 x 155 x 295 mm
Total load max.	16 A/3600 W
Input connector	220 – 240 V/50 Hz
Number of outlets (2000W max.)	2x 220 - 240 V
Number of dimmable outlets	1x max. 1250 W
Weight	1.8 kg
Order no.	56886

# USP CLASSIC 70

The USP Classic 70 is also suitable as a high-performance universal pump for implementation as a submersible motor-driven pump as well as for dry installation.

Conversion is possible with a few hand movements by taking off the filter basket and connecting the suction line to the suction connection that now becomes accessible.

The pump has a robust wet-running canned motor and works without shaft seal. Motor shaft and pump shaft as well as bearings are made of oxide ceramic which guarantees extremely quiet, low-friction continuous operation. The corrosion-resistant interior stainless steel can, the large base and the high-volume filter basket speak for the quality of this spray fountain pump that can be universally implemented.

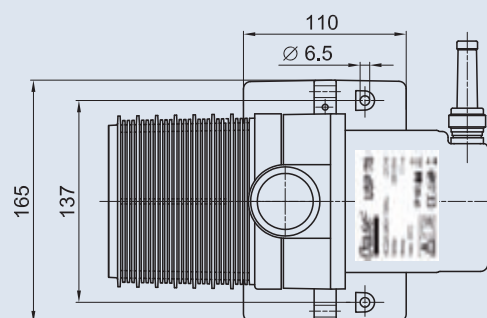
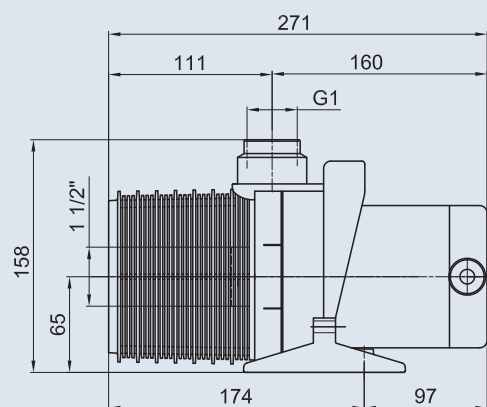
## Product characteristics at a glance

- Universal dry and wet installation
- Robust wet-running canned motor
- Wear-free static seals
- Bearings and motor shaft are made of special ceramics
- Motor housing and can are made of stainless steel
- High-volume filter basket made of high-quality plastic
- Including hose connection adapters

## Pump performance curve

H (m)

Q (l/min)



USP Classic 70	
Dimensions (L x W x H)	271 x 158 x 165 mm
Rated voltage	230 V / 50 Hz
Power consumption	270 W
Nominal current	1.0 A
Pressure side connection	1"
Suction side connection	1 1/2"
Filter surface	1325 cm <sup>3</sup>
Cable length	20.0 m
Material	V2A, Tb, ABS
Weight	5.0 kg
Order no.	56734

# USP 412 – USP 813



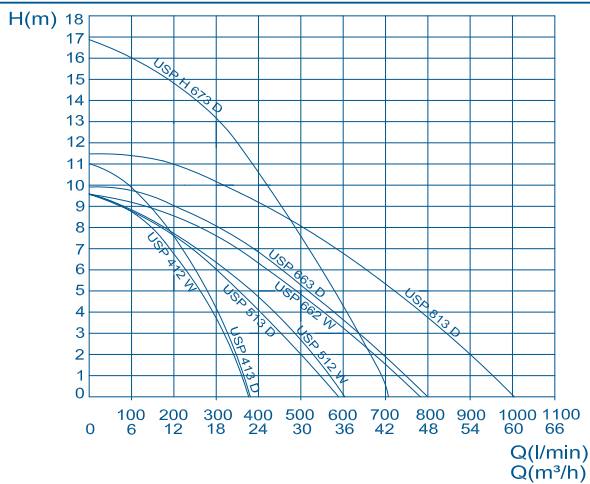
These pumps are true universal talents: Set up underwater they perform their work as submersible motor-driven pumps. They work just as reliably if they are set up in a separate pump chamber.

The robust wet-running canned motors have static seals. Water inrush poses no problem for these pumps because they can be submersed. In addition thanks to the high-quality materials, such as special ceramics, stainless steel, and tombac, they are low-wearing and offer an extremely long service life.

## Product characteristics at a glance

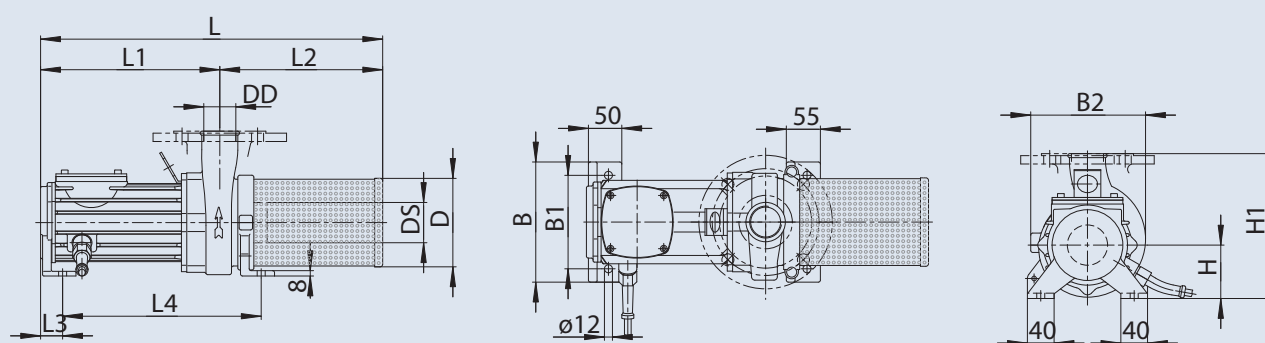
- Wet and dry installation
- Robust wet-running canned motor
- Wear-free static seals
- Bearings and motor shaft are made of special ceramics
- Shaft, can and pump impeller are made of stainless steel
- Housing made of corrosion resistant tombac alloy

Pump performance curves



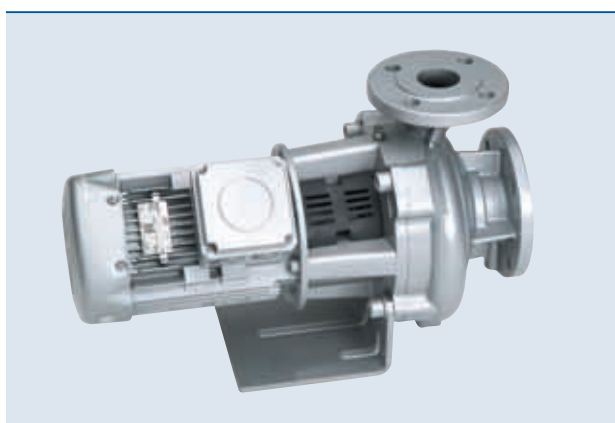
	USP 412 W	USP 413 D	
Dimensions (L x W x H) [mm]	512 x 180 x 220	512 x 180 x 220	
Voltage [V/Hz]	1x 230 / 50	3x 400 / 50	
Power output [kW]	0.52	0.49	
Current [A]	2.20	0.95	
B [mm]	180	180	
B1 [mm]	140	140	
B2 [mm]	178	178	
DD [inch]	1 1/2	1 1/2	
DS [inch]	2	2	
D [mm]	130	130	
H [mm]	80	80	
H1 [mm]	220	220	
L [mm]	512	512	
L1 [mm]	268	268	
L2 [mm]	244	244	
L3 [mm]	33	33	
L4 [mm]	297	297	
Cable length [m]	10.0	10.0	
Material	Tombac / Stainless steel		
Weight [kg]	22.0	22.0	
Order no.	55721	55720	



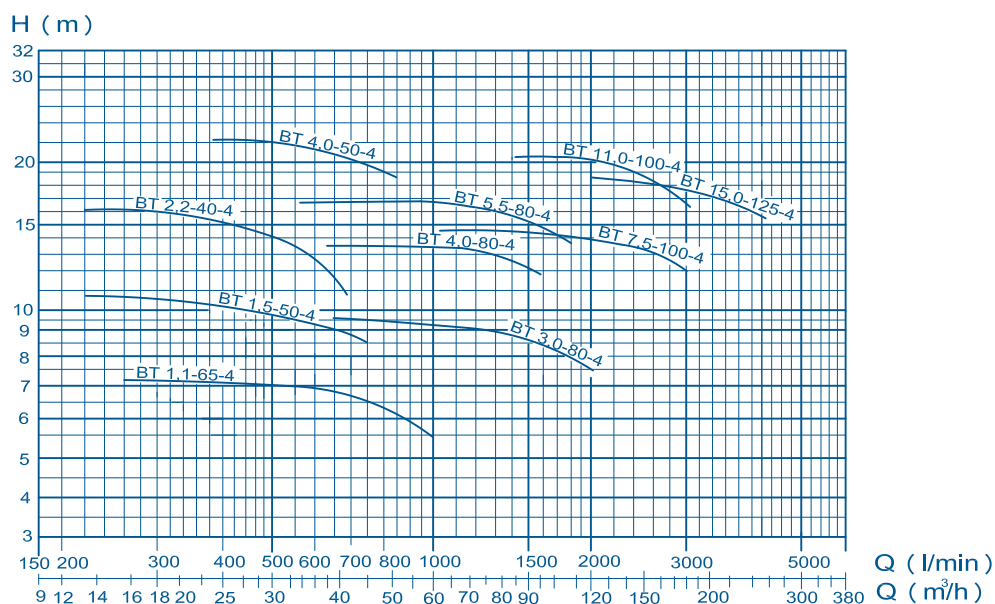


	USP 512 W	USP 513 D	USP 662 W	USP 663 D	USP 813 D	USPH 673 D
	551 x 240 x 280	551 x 240 x 280	679 x 240 x 310	679 x 240 x 310	696 x 240 x 290	679 x 240 x 310
	1x 230 / 50	3x 400 / 50	1x 230 / 50	3x 400 / 50	3x 400 / 50	3x 400 / 50
	0.60	0.77	1.12	1.18	1.50	1.55
	3.30	1.30	4.70	2.10	2.90	3.10
	240	240	240	240	240	240
	200	200	200	200	200	200
	210	210	230	230	255	230
	2	2	2 1/2	2 1/2	DN 80	2 1/2
	2 1/2	2 1/2	3	3	3	3
	150	150	170	170	200	170
	115	115	115	115	115	115
	280	280	310	310	290	310
	551	551	679	679	696	679
	252	252	305	305	308	305
	299	299	374	374	388	374
	36	36	36	36	36	36
	285	285	330	330	347	330
	10.0	10.0	10.0	10.0	10.0	10.0
	Tombac / Stainless steel		Tombac / Stainless steel		Tombac / Stainless steel	
	31.0	31.0	37.0	37.0	42.0	37.0
	<b>55727</b>	<b>55726</b>	<b>55732</b>	<b>55731</b>	<b>55735</b>	<b>56506</b>

# BT 0.55-40 TO BT 22.0-125



Pump performance curves



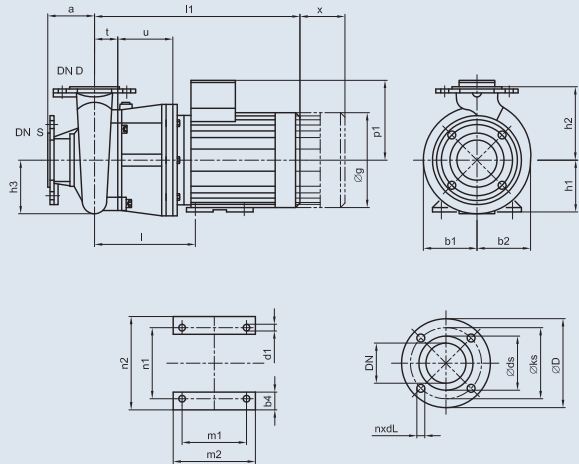
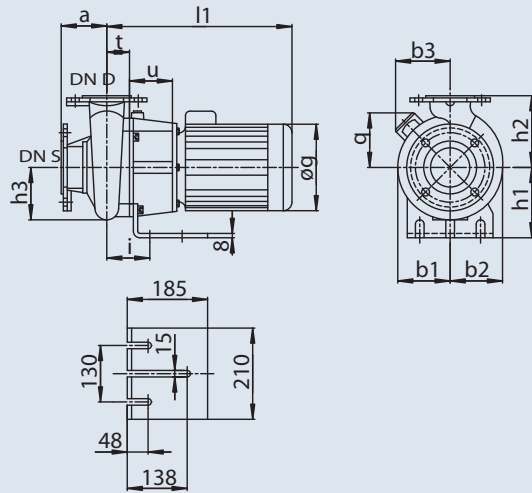
BT block centrifugal pumps are strong, uncomplicated pumps that are used wherever space is limited.

Thanks to their compact design they have very small spatial requirements. All dimensions and connections are DIN standard; this ensures universal implementation.

BT block centrifugal pumps are normal suction centrifugal pumps in spiral housings for dry installation with a motor in accordance with IEC standards. They comprise few parts that are important for their function, which reduces maintenance work to a minimum. The few maintenance tasks that are necessary are executed quickly and easily. Thanks to the low rpm the pumps are very quiet in operation and are subject to little wear. The enclosed impeller is highly efficient. The robust BT block centrifugal pumps are delivered as standard in grey cast iron. On request these pumps can also be delivered in special materials, such as bronze.

## Product characteristics at a glance

- Dimensions and connections in accordance with DIN standards
- Motor in accordance with IEC standard
- Maintenance-free slide ring seal
- Enclosed impeller with high efficiency
- Dry installation only



	2.2-40-4	1.5-50-4	4.0-50-4	1.1-65-4	3.0-80-4	4.0-80-4	5.5-80-4	7.5-100-4	11.0-100-4	15.0-125-4
Dimensions (LxWxH) [mm]	611x360x296	556x340x274	696x405x360	564x360x298	653x385x356	733x450x367	789x382x367	795x412x410	832x440x432	1011x515x514
Power output [kW]	2.20	1.50	4.00	1.10	3.00	4.00	5.50	7.50	11.0	15.0
Current [A]	4.7	3.4	8.2	2.6	6.4	8.2	11.4	15.2	21.5	28.5
Voltage [V/50 Hz]	400	400	400	400	400	400	400/YD	400/YD	400/YD	400/YD
Design	V1	V1	V1	V1	V1	V1	B35	B35	B35	B35
DN S [mm]	65	65	65	80	100	100	100	125	125	150
DN D [mm]	40	50	50	65	80	80	80	100	100	125
a [mm]	100	100	100		125	125	125	125	140	140
b1 [mm]	145	127	174	136	160	170	170	176	200	235
b2 [mm]	151	147	186	162	196	197	197	211	232	279
b3 [mm]	117		117	138						
b4 [mm]							53	53	60	60
d1 [mm]							12	12	15	15
g [mm]	202	186	227	181	202	227	266	266	319	319
h1 [mm]	180	160	132	160	160		180	132	132	180
h2 [mm]	180	180	225	200	225	250	250	280	280	355
h3 [mm]	145	152	179	155	185	178	178	196	222	256
i [mm]	124	122	131	130	137	143	318	262	383	419
l1 [mm]	511	456	596	464	528	608	664	692	792	871
m1 [mm]							140	178	210	254
m2 [mm]							180	218	256	300
n1 [mm]							216	216	254	254
n2 [mm]							256	256	300	320
p1 [mm]							167	167	197	197
q [mm]	117		117	138						
t [mm]	60		68	75						
u [mm]	116		116	133						
x [mm]	100	120	110	120	135	120	120	120	130	140
ds [mm]	118	118	118		156	156	156	1184	184	211
ks [mm]	145	145	145		180	180	180	210	210	240
n [mm]	4	4	4	8	8	8	8	8	8	8
dL [mm]	19	19	19	19	19	19	19	19	19	19
Material	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
Weight [kg]	65.0	56.0	84.0	60.0	88.0	86.0	106.0	119.0	173.0	231.0
Order no.	57041	57044	57046	57048	57051	57052	57053	57056	57057	57060



## SPA 22 - SPA 280

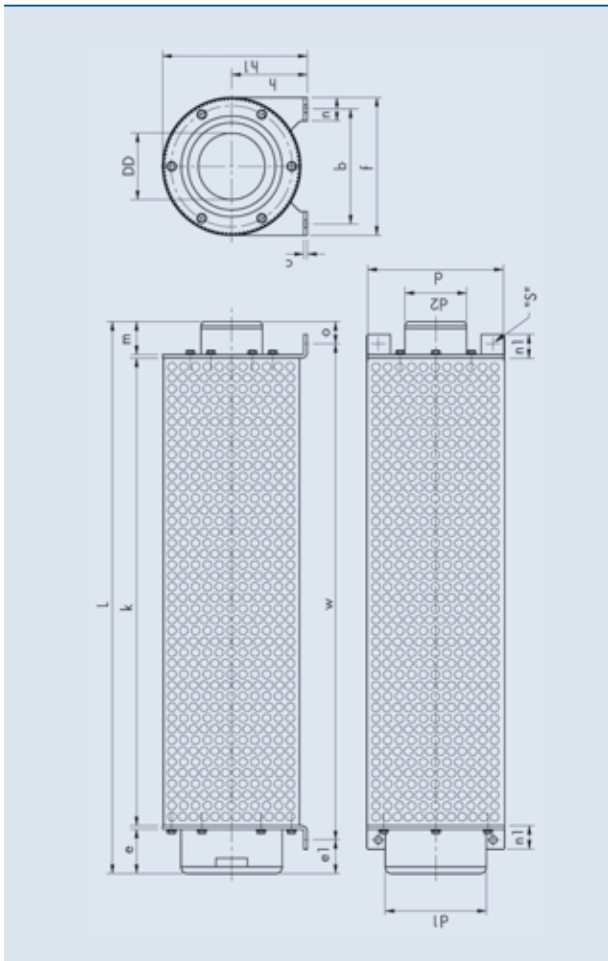


These multistage structured submersible motor-driven pumps are the powerful heart for high delivery heads.

They reliably supply single fountains as well as group fountains with sufficient water volumes and pressure for larger spray heights. Thus they are preferred in installations in which the delivery head of single-stage pumps no longer suffices.

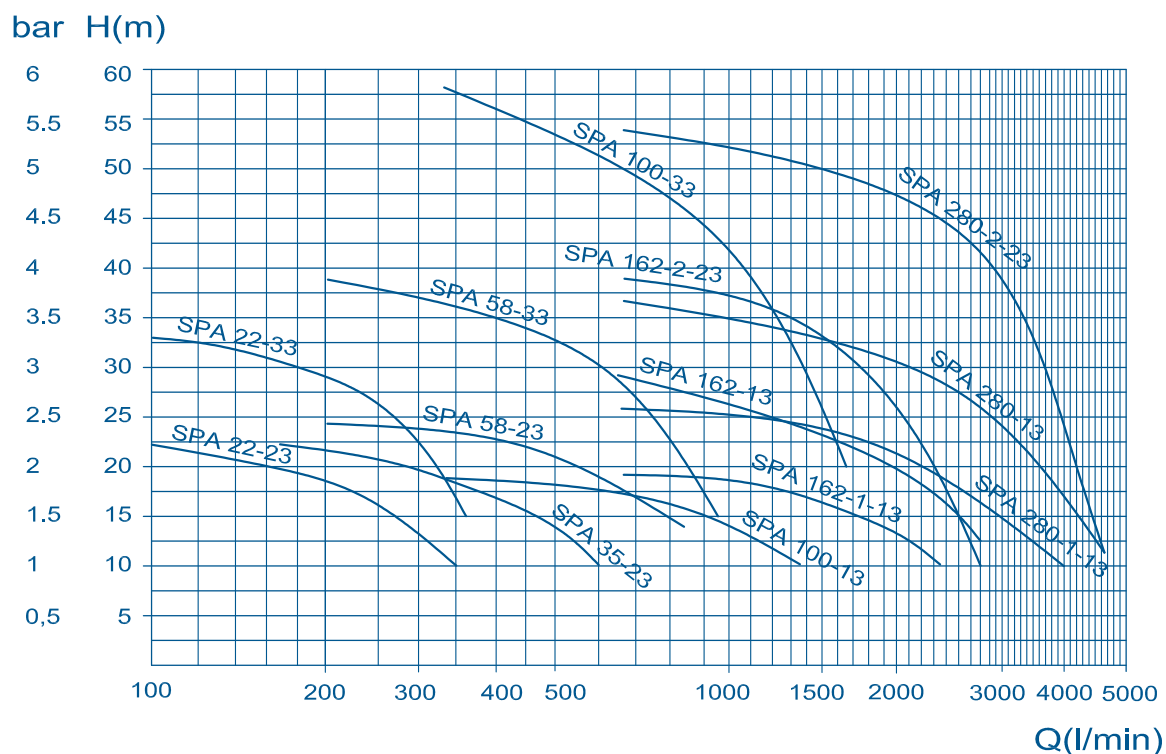
### Product characteristics at a glance

- Extremely shallow and slender design
- Multistage submersible motor pump
- Suitable for higher delivery heights
- High-volume filter basket
- Good stability
- Robust wet-running canned motor
- All parts made of stainless steel



Model	SPA 22-23	SPA 22-33	SPA 35-23	
Dimensions (LxWxH) [mm]	680x225x229	888x225x229	898x225x229	
Voltage [V/Hz]	3x 400 / 50			
Power output [kW]	1.1	2.2	2.2	
Current [A]	3	6	6	
b [mm]	189	189	189	
c [mm]	4	4	4	
DD (Rp) [inch]	2.5	2.5	3	
d [mm]	131	131	225	
d1 [mm]	225	225	131	
d2 [mm]	95	95	95	
e [mm]	80	80	80	
e1 [mm]	57	57	57	
f [mm]	229	229	229	
h [mm]	123	123	123	
h1 [mm]	237	237	237	
k [mm]	500	500	500	
L [mm]	680	888	898	
m [mm]	92	300	310	
n [mm]	40	40	40	
n1 [mm]	44	44	44	
o [mm]	69	277	287	
w [mm]	554	554	554	
s [mm]	11	11	11	
Cable length [m]	10.0	10.0	10.0	
Material	Stainless steel V2A			
Weight [kg]	20.0	28.0	28.0	
Order no.	53834	53835	53839	

Pump performance curves



	SPA 58-23	SPA 58-33	SPA 100-13	SPA 100-33	SPA 162-1-13	SPA 162-13	SPA 162-2-23	SPA 280-1-13	SPA 280-13	SPA 280-2-23
	970x225x229	1150x225x229	1162x310x314	1508x310x314	1165x310x314	1255x310x314	1441x310x314	1489x310x314	1544x310x314	1910x310x314
	3x 400 / 50									
	3	5.5	5.5	11	7.5	11	13	15	18.5	30
	7.9	13.6	13.6	24.8	17.6	24.8	34	34	42	66.5
	189	189	274	274	274	274	274	274	274	274
	4	4	4	4	4	4	4	4	4	4
	3	3	5	5	6	6	6	6	6	6
	225	225	310	310	310	310	310	310	310	310
	141	150	186	186	218	218	218	247	247	247
	95	138	138	138	138	138	138	138	138	138
	100	100	120	120	120	120	120	120	120	120
	77	77	97	97	92	92	92	96	96	96
	229	229	314	314	314	314	314	314	314	314
	123	123	165	165	165	165	165	165	165	165
	237	237	322	322	322	322	322	322	322	322
	750	750	750	1000	750	750	1000	1000	1250	1500
	970	1150	1162	1508	1165	1255	1441	1489	1544	1910
	112	292	284	380	287	377	313	361	166	282
	40	40	40	40	40	40	40	40	40	40
	44	44	44	44	44	44	44	44	44	44
	89	269	261	357	269	359	295	339	144	260
	804	804	804	1054	804	804	1054	1054	1304	1554
	11	11	11	11	11	11	11	11	11	11
	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	Stainless steel V2A									
	31.0	54.0	66.0	91.0	85.0	93.0	103.0	104.0	111.0	132.0
	53845	53846	53852	53854	53858	53859	53860	53864	53865	53866



## VARIONAUT 1

A 24 V/DC indoor and outdoor fountain pump which is suitable for underwater application directly below the nozzles. It fulfils the national regulations of DC continuous current up to 30 V. Any single pump can be individually regulated and controlled via the DMX connection. That way dynamic water effects can be created easily.

The Varionaut 1 itself produces water displays of up to 1.90 m height – in combination with Comet 5-8 T nozzles. It comes with a high-quality stainless steel filter housing, along with

2 connection boxes for the 24 V power supply and DMX data source. Through this special connection technology, wiring by hand is no longer necessary. Spotlights and other consumer loads (e.g. LED spotlights) can be connected easily to DMX of the pump.

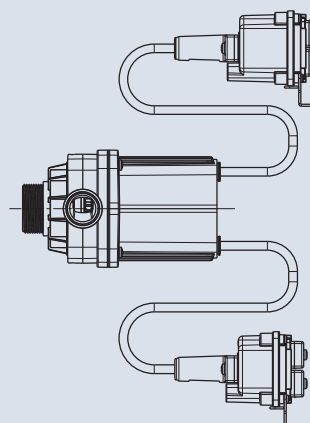
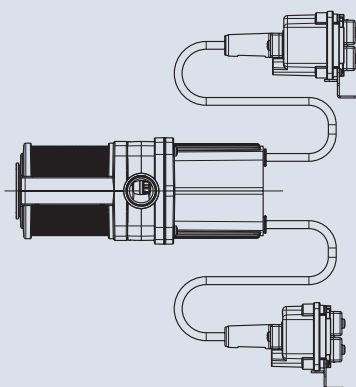
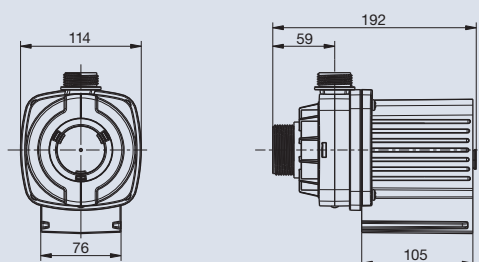
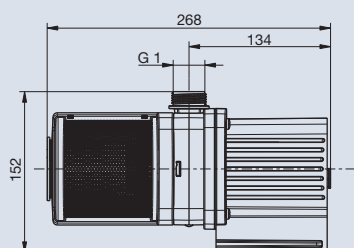
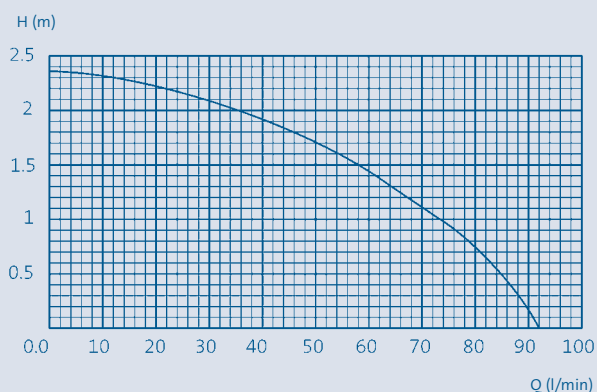
To operate the Varionaut 1 you require an OASE Easy Control (not included).

### Product characteristics at a glance

- 24 Volt DC continuous current indoor and outdoor fountain pump
- Can be placed directly below the nozzles in the water as DC up to 30V/DC is approved by national regulations
- Fountain of max 1.90 m in height, with Comet 5-8 T nozzle
- Suitable for wet or dry installation
- Power consumption of max. 53 W
- DMX compatible; 3 channels (Start number 1)
- Cable length of 1 m, each power cable and DMX cable
- IP 68 rated







Varionaut 1/DMX/01	
Dimensions (L x W x H) without filter	192 x 114 x 152 mm
Dimensions (L x W x H) with filter	268 x 114 x 152 mm
Dimensions (L x W x H) with filter + stand	268 x 142 x 152 mm
Rated voltage	24 V/DC
Protection class	IP 68
Power consumption	53 W
Nominal current	2.5 A
Suction side connection	1 1/2"
Pressure side connection	1"
Max. Head Height	2.35 m
Max. Flow Rate	92 l/min
Input DMX	1 m BUS cable with DMX box
Input power	1 m cable with power box
Number of DMX channels	3 channels; start no. is channel 1
Filter surface	200 cm <sup>2</sup>
Material	Stainless steel
Weight with filter	3.7 kg
Fountain height max. (with Comet 10-12 T)	1.5 m
Order no.	50136



## VARIONAUT 2

The 230 Volt – alternating current – version of the Varionaut manages to achieve in connection with a Comet 10-12 T nozzle a fountain height of up to 3.50 m. Any single pump can be individually regulated and controlled via the DMX connection. By that dynamic water effects can be created easily.

The Varionaut 2 comes with a power connection cable of 10 m and a DMX cable of 1 m. With these special connection boxes, hand wiring is no longer necessary. Spotlights and

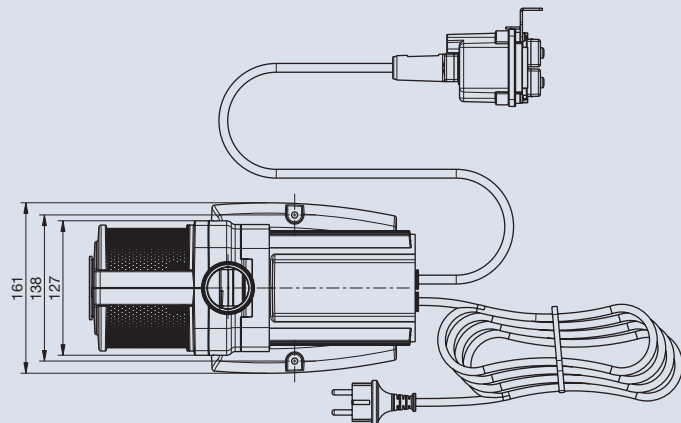
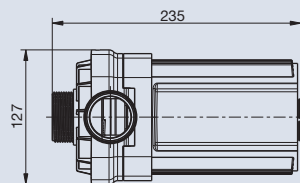
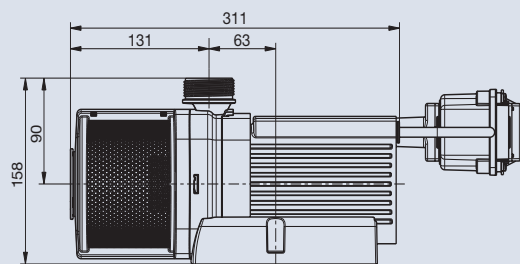
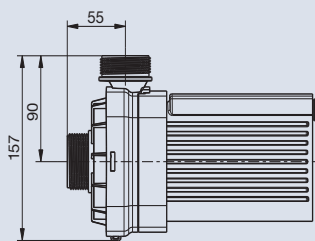
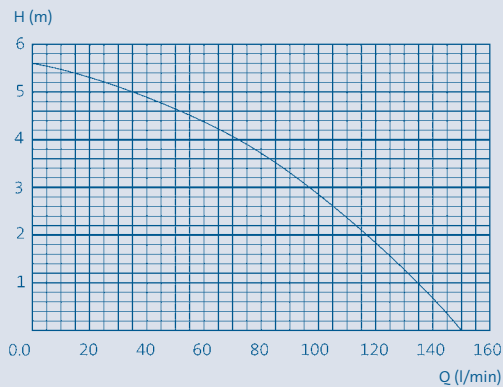
other consumer loads (eg. LED spotlights) can easily be connected to the DMX of the pump. The Varionaut 2 has a power consumption of 130 W and a power supply of AC 220-240V 50/60Hz.

You additionally require an OASE Easy Control (not included).



### Product characteristics at a glance

- 230 V/AC fountain pump with alternating current for the application indoor and outdoor
- Fountain height of up to 3.50 m in combination with a Comet 10-12 T nozzle
- Suitable for dry installation
- Power consumption of max. 130 W
- DMX compatible; 3 channels (Start number 16)
- 10 m power cable and 1 m DMX cable and connection box
- IP 68 rated



Varionaut 2/DMX/01	
Dimensions (L x W x H) without filter	235 x 127 x 157 mm
Dimensions (L x W x H) with filter	311 x 127 x 157 mm
Dimensions (L x W x H) with filter + stand	311 x 161 x 158 mm
Rated voltage	220-240 V/AC, 50/60 Hz
Protection class	IP 68
Power consumption	130 W
Nominal current	1.3 A
Suction side connection	1 1/2"
Pressure side connection	1 1/2"
Max. Head Height	5.6 m
Max. Flow Rate	150 l/min
Input DMX	1 m BUS cable with DMX box
Input power	10 m cable with power box
Number of DMX channels	3 channels; start no. is channel 16
Filter surface area	223 cm <sup>3</sup>
Material	Stainless steel / plastic
Weight with filter	4.9 kg
Fountain height max. (with Comet 10-12 T)	3.5 m
Order no.	50343





# IDEAL ACCESSORIES FOR PROFESSIONAL SYSTEMS

CONSTRUCTION OF A PROFESSIONAL SPRAY FOUNTAIN SYSTEM, A LARGE FOUNTAIN, OR PERFECTLY PLANNED WATER FEATURES IS AN EXTREMELY CHALLENGING TASK. THE HIGH-QUALITY ACCESSORIES FROM OASE ARE DESIGNED TO HELP YOU MEET THAT CHALLENGE.

**CITY FOUNTAIN/  
ACROPOLIS CONFERENCE  
AND EXHIBITION CENTRE**

**Location: Nice**

The imposing water domes produced by OASE fountain rings and Comet nozzles have found their perfect site on the Cote d'Azur – throughout the year they attract locals and tourists alike.

*OASE reference object, left*

Planning has finally been completed, all desires and requirements have been taken into consideration, the terrain has been probed and the perfect solution has been found. Implementation is now the issue at hand – and oftentimes, the devil is in the details.

OASE offers sophisticated accessories for all eventualities so that you can implement your ideas just as perfectly as they have been planned. They prevent you from unpleasant surprises in the implementation.

High-quality stainless steel channels enable waterproof layout of suction and pressure connections in concrete and in liner pools.

Stainless steel filter baskets ensure years of trouble-free system operation. Armatures that satisfy the most rigorous functional and aesthetic requirements are available for inflow and outflow, the floor drain, and for the overflow and the return feed.

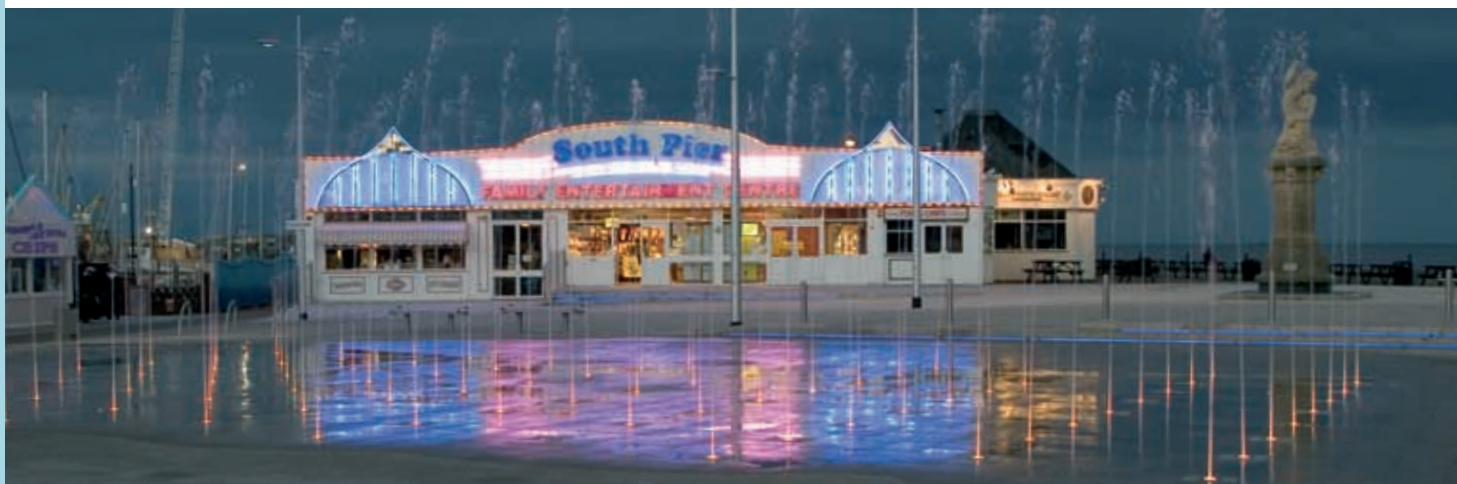
In the end only one thing counts: The pride and satisfaction in the piece of water art that has been created.



*The new Nozzle Chambers offer ideal prerequisites for the straightforward installation of impressive water-light-combinations without open surface of the water.*

• Underground niches	page 130
• OASE modular system	page 132
• Floor drain armatures	page 134
• Drain armatures	page 136
• Floor-/ return armatures	page 138
• Inflow nozzles	page 140
• Fresh water inlets	page 140
• Floor-/wall transitions	page 140
• Overflow-/return armatures	page 142
• Suction filter baskets	page 144





## NOZZLE-CHAMBER SINGLE / VARIO

Compact water installations – even without a large pool you can quickly and easily implement your design ideas in free spaces. The new underground niches Nozzle-Chamber Single and Nozzle-Chamber Vario offer ideal conditions for the uncomplicated installation of attractive water-light combinations without an open water surface.

The Nozzle-Chamber Single is ideal for underground installation of the BEST LED /DMX/01 or our Comet and Schaumsprudler fountain jets.

With the Nozzle-Chamber Vario you can also easily install the Vario-Switch 010a underground with the BEST LED /DMX/01 or the Comet and Schaumsprudler fountain jets.

### Product characteristics at a glance

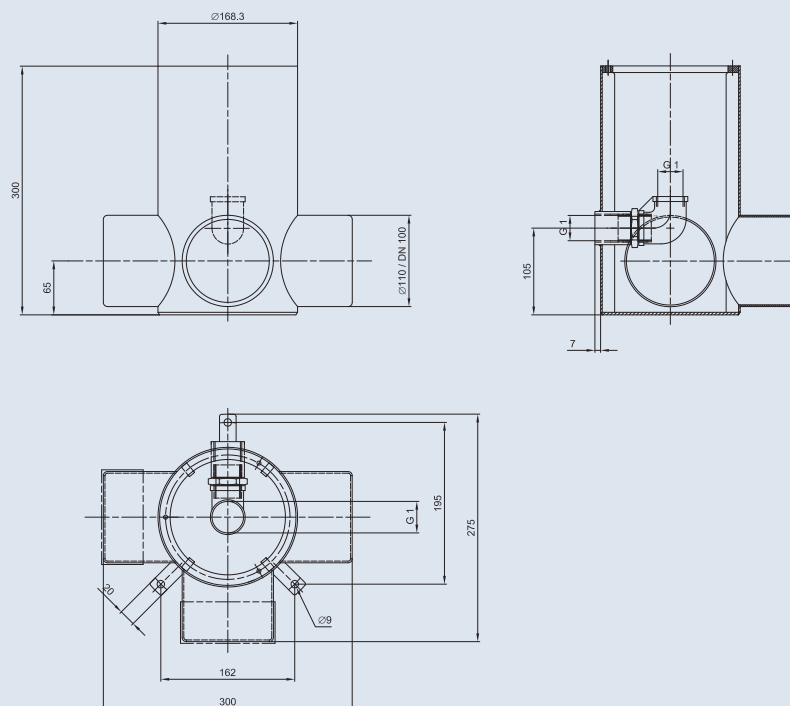
- Ideal for installation in open areas and multi-functional areas
- Easy installation
- With 3 DA 110 / DN 100 connections and 2 sealing caps
- G 1" pressure connection including 90° angle
- High-quality, robust stainless steel construction



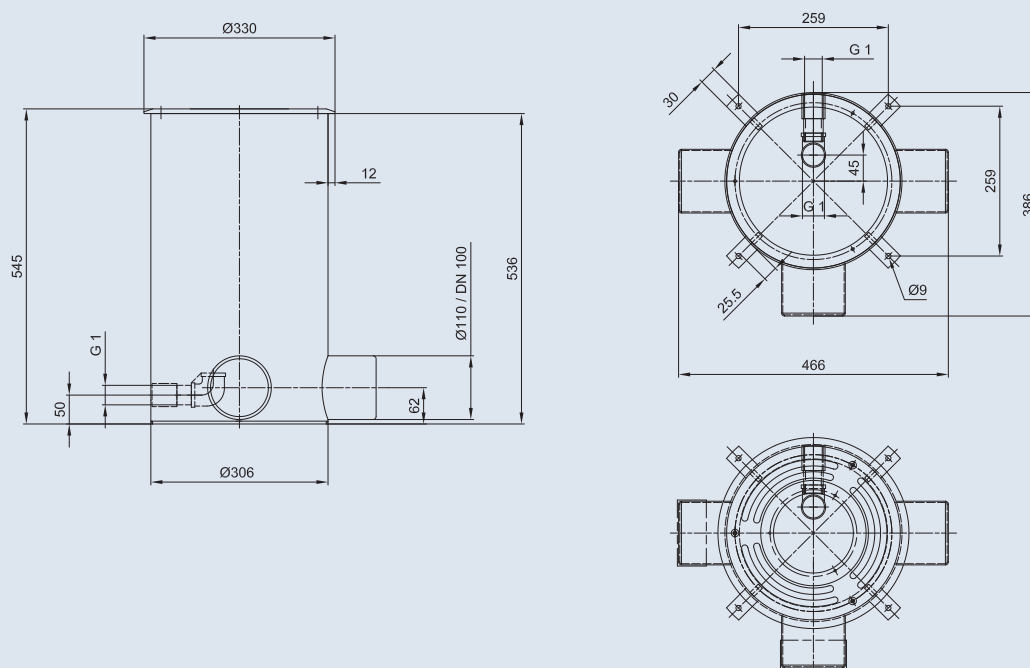
Nozzle-Chamber Single

Nozzle-Chamber Vario





Nozzle-Chamber Single



Nozzle-Chamber Vario

	Nozzle-Chamber Single	Nozzle-Chamber Vario
Dimensions (L x W x H) [mm]	300 x 275 x 300	466 x 386 x 536
Pressure connection	1"	1"
Connection drain	3 x Ø 110/DN 100	3 x Ø 110/DN 100
Material	stainless steel	stainless steel
Weight [kg]	5.5	23.0
Order no.	50477	50478



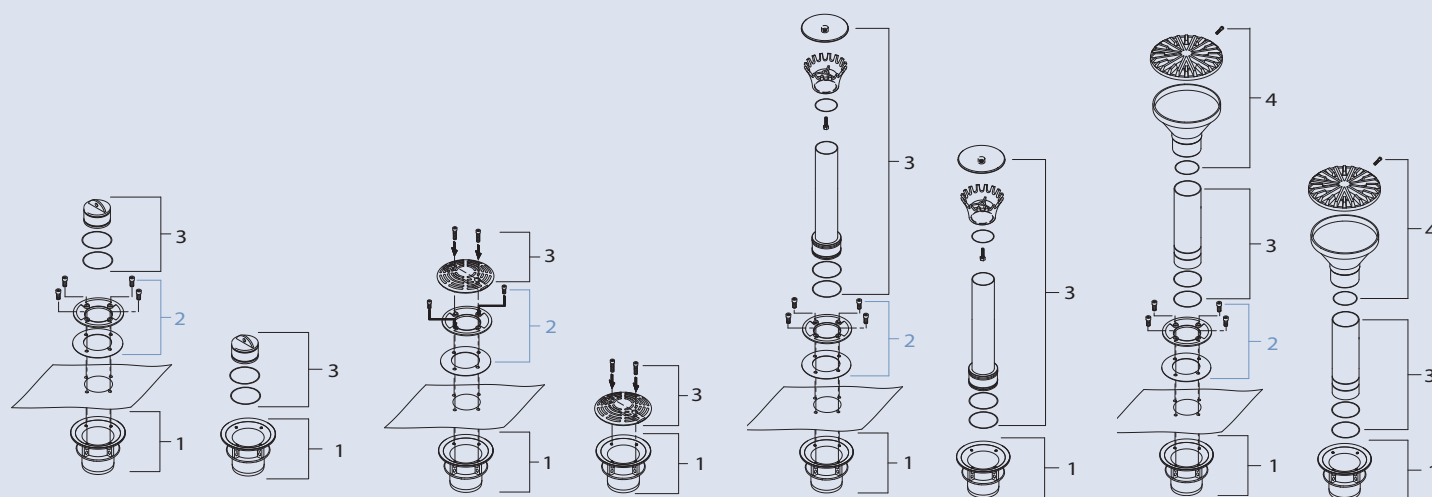
## OASE MODULAR SYSTEM

This easy-to-install system offers many combination possibilities and thus can be directly adapted to meet your customers' requirements.

As a base, first order the concrete part in 70 mm or 100 mm, then the clamping flange with or without cable transition (see p. 148), and then you can decide whether plug, sieve, level regulator, or overflow will be used. Absolute freedom for you – with the OASE modular system!

### The advantages at a glance:

- Many combination possibilities
- Flexibility
- Ease of installation
- Precisely matched to the desires of the customer



## The OASE modular system!

- 1** The concrete part is the basis of every configuration. Available for DN 70 and / or DN 100 pipes.
- 2** The clamping flange is for fastening with liner. Products with cable transitions are listed on [page 148](#).
- 3** Depending on the requirement a decision is made at this point concerning the concrete implementation: Plug, sieve, overflow or level regulator.



## FLOOR DRAIN ARMATURES

Concrete or liner pools can be easily emptied via OASE floor drains. The drains are available with plug or with sieve.

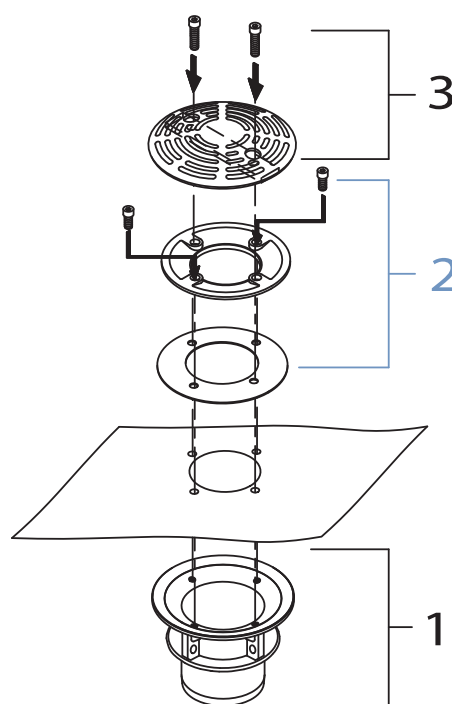
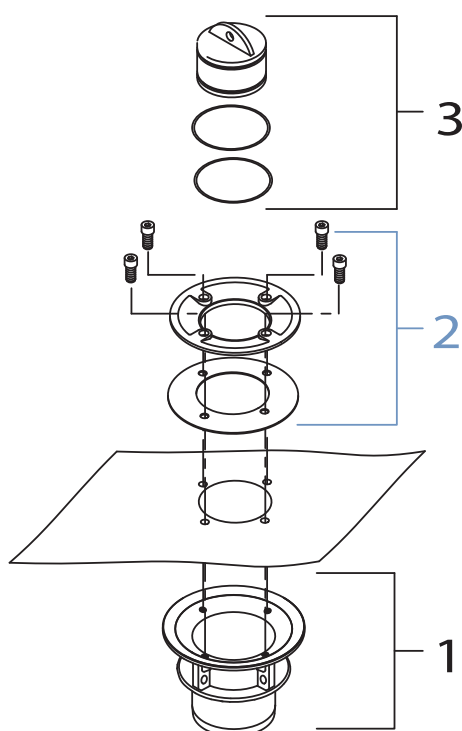
Subsurface installation of a slide valve is required for discharging the models with debris sieve. Suitable cover sieves for the floor drains prevent excessive debris from getting into the drain (accessories).

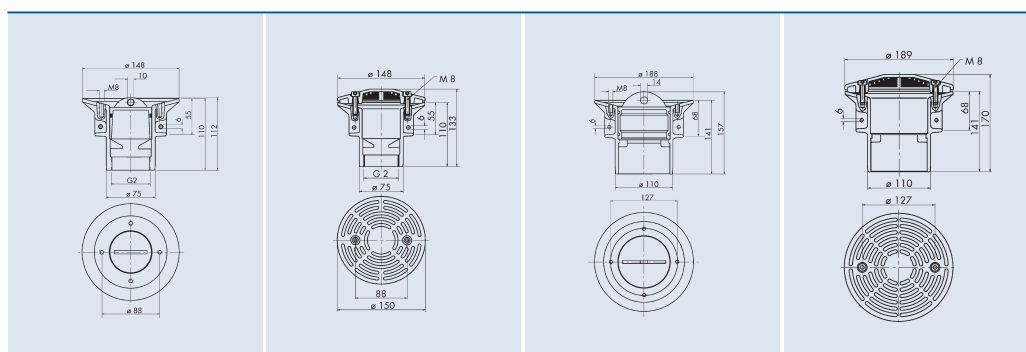
The floor components of the drain armatures have concrete sealing flanges and can simply be inserted and cemented into the muffs of the drain pipes. Appropriate bores are available for connection to the equipotential bonding.

Appropriate liner clamping flanges with seal and bolts are available for flanging and sealing to liner. They are suitable for normal pool liner, with or without textile reinforcement,



and a maximum thickness of 2.5 mm, however they are not suitable for waterproofing membranes in accordance with DIN 18195.



- 1** The concrete part is the basis of every configuration. Available for DN 70 and / or DN 100 pipes.
- 2** The clamping flange is for fastening with liner. Products with cable transitions are listed on page 148.  
**This position can be used optionally.**
- 3** Depending on the requirement a decision is made at this point concerning the specific implementation: Plug, sieve, overflow or level regulator...





3					
		S 70 T	WS 70 E	S 100 T	WS 100 E
Dimensions (ø)	[mm]	70	150	100	190
Designation		plug	debris sieve	plug	debris sieve
DN		70	70	100	100
Material		tombac	stainless steel	tombac	stainless steel
Weight	[kg]	0.6	0.6	0.9	0.7
Order no.		57468	51973	57462	51974

2 (optional)			
		FK 70 T	FK 100 T
Dimensions (ø)	[mm]	148 x 26	188 x 35
Designation		liner clamping flange	liner clamping flange
DN		70	100
Material		tombac	tombac
Weight	[kg]	1.1	1.4
Order no.		51108	51117

1			
		B 70 T	B 100 T
Dimensions (ø x H)	[mm]	70 x 110	100 x 141
Designation		concrete part	concrete part
DN	[mm] / [inch]	70 / 2"	100
Material		tombac	tombac
Weight	[kg]	2.1	3.2
Order no.		57471	57467

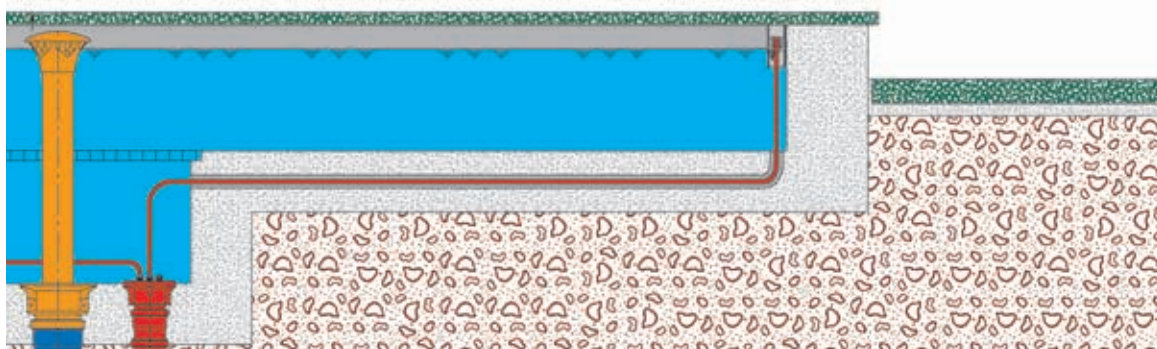
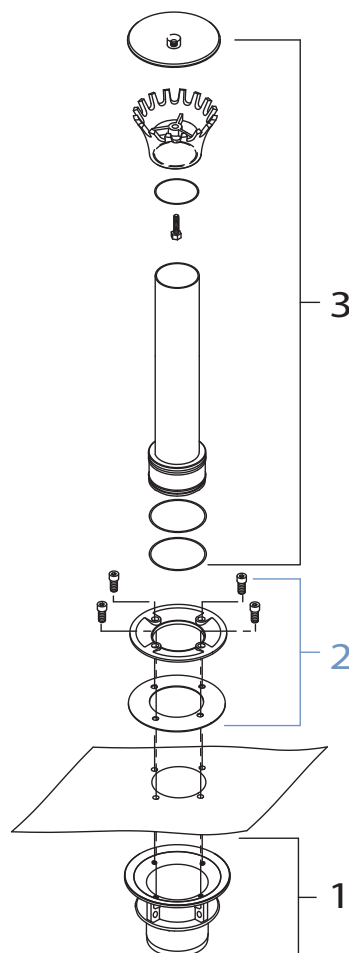
## UA 70/1000 T AND UA 100/1000 T

The optimal combination of overflow and drain: An overflow pipe inserted in the drain discharges excess water from filled pools. It is simply pulled out to empty the pool.

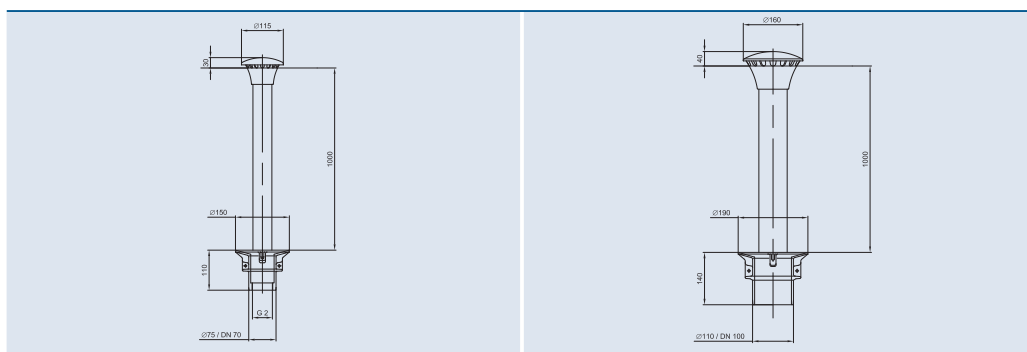
The overflow pipe with overflow crown has a standard length of 1000 mm, however it can be shortened to adapt to a lower water level. A debris/winter sieve can also be ordered for protection against coarse debris (see page 134).


### Product characteristics at a glance


- Optimal combination of overflow and drain
- Easy installation
- For water levels from 0 to 1000 mm
- Stainless steel standpipe
- Cast parts are made of corrosion-resistant tombac alloy








3		
	UA 70 / 1000 T	UA 100 / 1000 T
Dimensions (ø x H) [mm]	115 x 1054	160 x 1108
Designation	overflow / drain armature	overflow / drain armature
DN	70	100
Material	tombac / stainless steel	tombac / stainless steel
Weight [kg]	3.2	7.2
Order no.	57469	57463

2 (optional)		
	FK 70 T	FK 100 T
Dimensions (ø x H) [mm]	148 x 26	188 x 35
Designation	liner clamping flange	liner clamping flange
DN	70	100
Material	tombac	tombac
Weight [kg]	0.9	1.1
Order no.	51108	51117

1		
	B 70 T	B 100 T
Dimensions (ø x H) [mm]	70 x 110	100 x 141
Designation	concrete part	concrete part
DN [mm] / [inch]	70 / 2"	100
Material	tombac	tombac
Weight [kg]	2.1	3.2
Order no.	57471	57467

# RBA 200/100 T, RA 200/100 T, RA 250/150 T

Return armatures channel the water from the pool back to the water reservoir and thus close the water circuit. Size and quantity are calculated on the basis of the water volume flowing through the circuit.

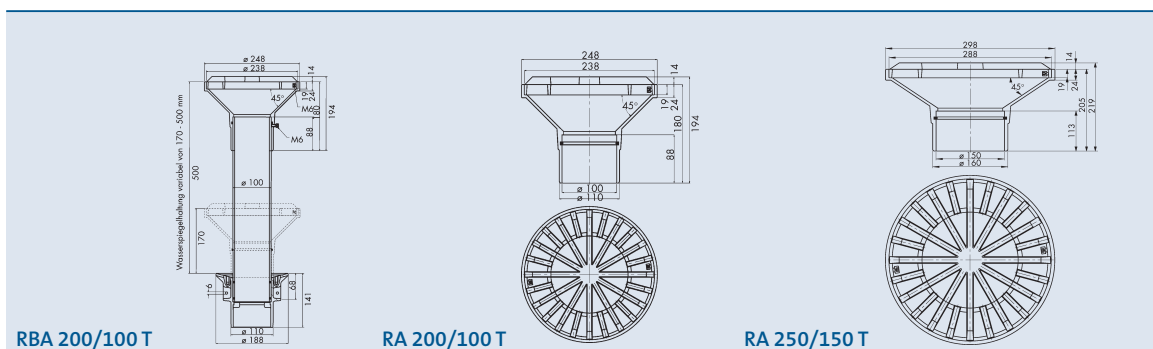
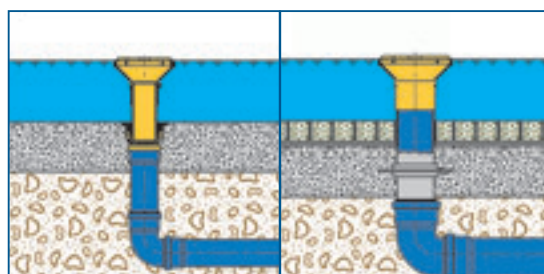
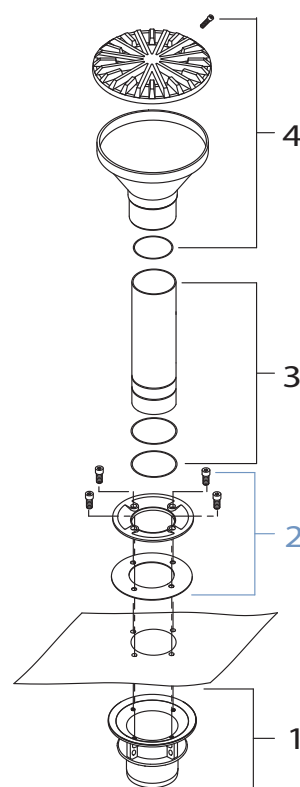
For safety reasons at least two return armatures must be provided. A maximum return speed of 0.6 m/s should serve as the basis for calculating the nominal return diameter.



The standpipe of the RBA 200/100 T armature can be shortened to adapt to the water level. For a constant water level the armatures can be pushed onto the slightly chamfered pipes. Otherwise the 200/100 T and RA 250/150 T return armatures are simply inserted in the muffs of the drain pipes and embedded in concrete.


The floor part has a concrete sealing flange and can easily be inserted in the muffs of the drain pipe and embedded in concrete. Appropriate bores are available for connection to the equipotential bonding. Appropriate liner clamping flanges with seal and bolts are available for flanging and sealing to liner. They are suitable for normal pool liner, with or without textile reinforcement, and a maximum thickness of 2.5 mm, however they are not suitable for waterproofing membranes in accordance with DIN 18195.


## Product characteristics at a glance


- Large and effective debris sieves
- Cast parts are made of corrosion-resistant tombac alloy
- Easy installation
- Versatile implementation



4				
	RA 200 / 100 T		RA 250 / 150 T	
	Dimensions (ø x H)	[mm]	248 x 194	298 x 219
	Designation		return armature	return armature
	DN		100	150
	Material		tombac	tombac
	Weight	[kg]	8.5	11.5
	Order no.		51123	51124

3			without standpipe	
	RA 100/500 E			
	Dimensions (ø x H)	[mm]	110 x 170-500 (variable)	
	Designation		standpipe	
	DN		100	
	Material		brass	
	Weight	[kg]	4.5	
	Order no.		57466	

2 (optional)			without liner clamping flange	
	FK 100 T			
	Dimensions (ø x H)	[mm]	188 x 35	
	Designation		liner clamping flange	
	DN		100	
	Material		tombac	
	Weight	[kg]	1.1	
	Order no.		51117	

1			without concrete part	
	B 100 T		for channel pipe muffs	
	Dimensions (ø x H)	[mm]	100 x 141	
	Designation		concrete part	
	DN		100	
	Material		tombac	
	Weight	[kg]	3.2	
	Order no.		57467	









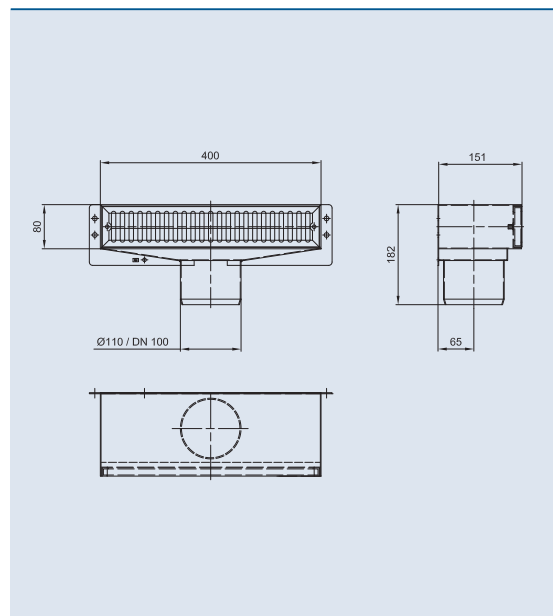
## URK 100 E

These armatures can either be used to route the filtered water back into the pool or to discharge excess pool water.

Overflow/return armatures are installed in the vertical pool wall. Size and number of armatures used are based on the volume of water that will be returned. However at least two return armatures should be used for safety reasons. A maximum return speed of 0.6 m/s should serve as the basis for calculating the nominal return pipe diameter. The connection ducts easily fit in all muffs of the drain pipes.

### Product characteristics at a glance

- For installation in vertical pool walls
- Large and effective debris sieves
- Connection suitable for the muffs of the drain pipe
- Manufactured completely of stainless steel

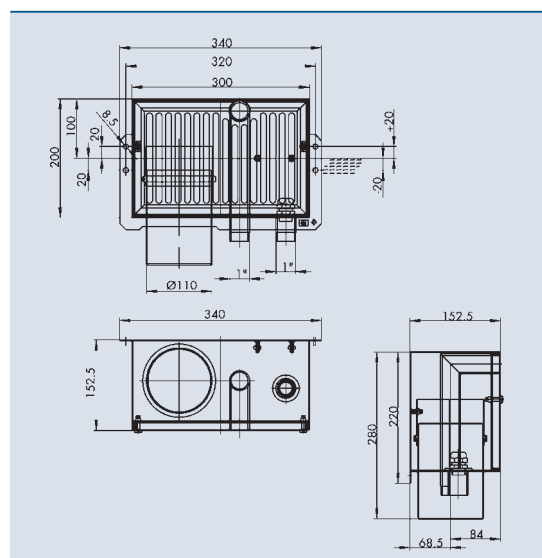


URK 100 E	
Dimensions (L x W x H)	450 x 150 x 180 mm
For pools with liner	no
DN	100
Material	stainless steel
Weight	6.0 kg
Order no.	52602



This is a three-in-one armature: It is an inlet armature, overflow armature, and at the same time it controls the water level – if equipped with an additional water level sensor.

- Elegant combination of freshwater inlet and pool overflow
- Installation possibility for water-level sensor
- Water level can be corrected  $\pm 20$  mm retroactively
- Completely made of stainless steel

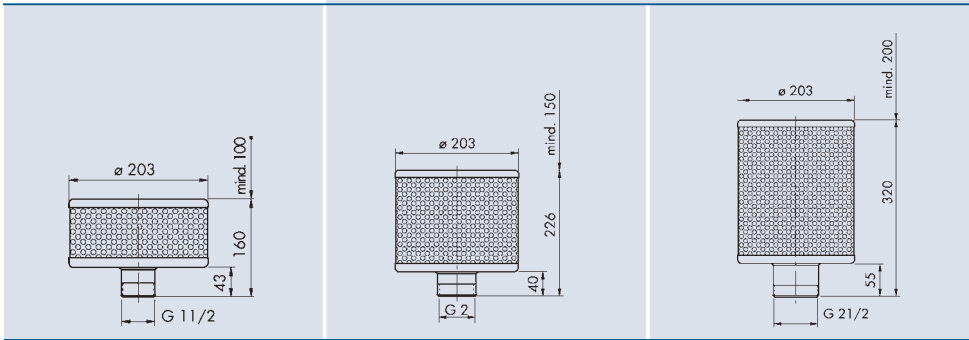
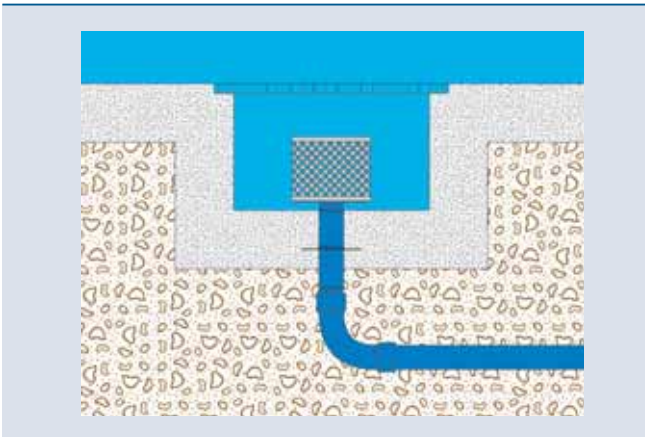
OASE FOUNTAIN TECHNOLOGY / LAKE MANAGEMENT



SUCTION FILTER BASKETS  
SF 200/15 E TO SF 600/530/250 E

Suction filter baskets are mounted on the inlets of the suction lines to protect the pump/nozzle water circuit from coarse debris.

The baskets are available in different sizes and have extra large filter surfaces that ensure a sufficiently long cleaning interval. In this regard the perforated filter plates for the medium-sized and large filter baskets have been folded multiple times in a star pattern. The stainless steel perforated plate has 4 mm holes.

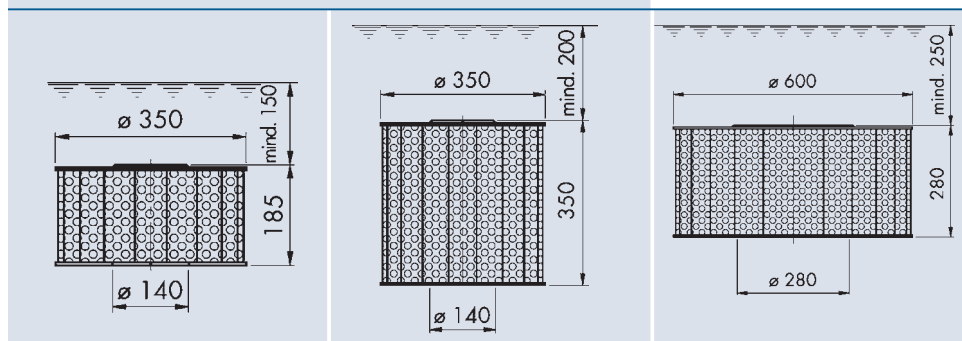
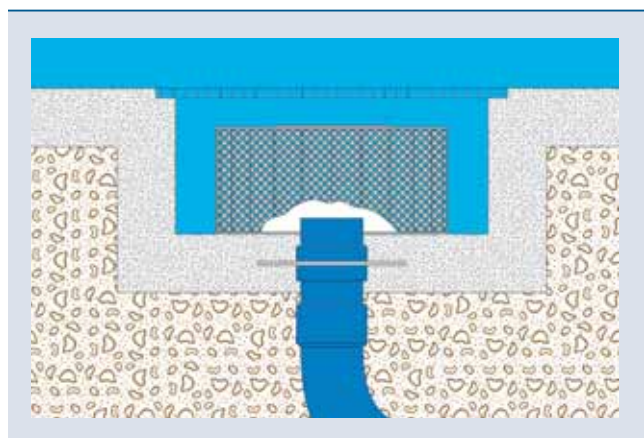
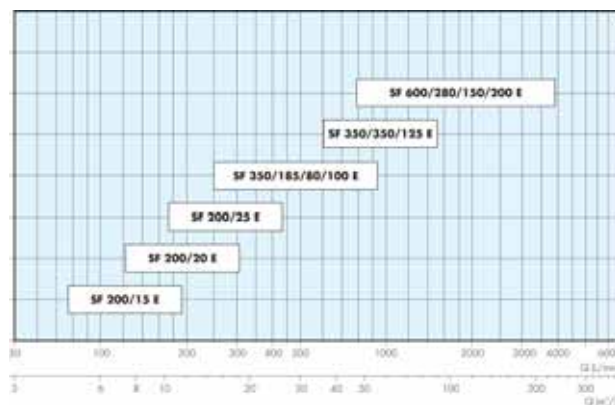


	SF 200/100/15 E	SF 200/166/20 E	SF 200/250/25 E
Dimensions [ØxH mm]	203 x 160	203 x 226	203 x 320
DN [inch/mm]	1 1/2"	2"	2 1/2"
Filter surface [m²]	0.08	0.12	0.18
Particle strainer Ø [mm]	4.0	4.0	4.0
Material	stainless steel	stainless steel	stainless steel
Weight [kg]	1.1	1.5	1.8
Order no.	51082	51083	51084

The small suction filter baskets are screwed directly onto the pool floor channels. The medium and large baskets are simply placed over the suction line pipe that projects approximately 50 mm above the pool floor and permanently anchored.

#### Product characteristics at a glance

- Protects pump and nozzle from coarse debris
- Large filter surface
- Easy installation
- Solid and robust construction
- Extremely corrosion resistant



SF 350/185/80/100 E	SF 350/350/125 E	SF 600/280/150/200 E		
350 x 185	350 x 350	600 x 280	[ØxH mm]	Dimensions
80/100	125	150/200	[inch/mm]	DN
0.44	0.88	1.5	[m²]	Filter surface
–	–	–	[mm]	Particle strainer Ø
stainless steel	stainless steel	stainless steel		Material
9.5	11.5	43.1	[kg]	Weight
51753	54755	51756		Order no.





# POWER – MEASURE – CONTROL – REGULATE

FASCINATING WATER SHOW EFFECTS AS IF CONTROLLED BY AN INVISIBLE HAND

## CITY FOUNTAINS

Location: Nice –  
Place Massena

*OASE reference object, left*

Wherever spray fountains please the eye, precision-matched measurement, control and regulating technology from OASE produces fascinating effects. There are some basic principles in this regard:

- For water features, fountains, and water show systems, it is important that pumps, throttle devices, filters, and water treatment systems operate in precise coordination.
- Electrical cables must be laid out in the pool, and they must be connected in such a manner that they are waterproof.
- If there is wind the fountain height must be adapted to wind conditions, and the water level must always be compensated.
- When it gets dark each fountain radiates with a fascinating brilliance produced by the use of underwater lights and the sophisticated play of colour.
- Even sound, video, lasers, and pyrotechnics play a role in modern water features.

Through the use of the simplest control systems, freely programmable controllers, or through the perfect interplay of the ensemble comprised of all integrated components in an extensive network, the operator always has full overview of system functions in any size and configuration.



*The OASE Easy Control can program your system from a PC or laptop.*

• Cable transition armatures	page 148
• Underwater cable connectors	page 151
• Connection cable /-DMX	page 154
Connection cable 12V AC/24 V DC	page 155
• Electrical control systems	page 156
• Easy Control	page 160
• Water level regulators	page 162
• Solenoid valves	page 163
• Water level sensors	page 164
• Wind level fountain controller	page 166

## CABLE TRANSITION ARMATURES

### KD 4/70 T, KD 7/100 T AND KD 12/100 T

Electrical cables are routed under the water surface in all types of pools via cable transition armatures, in a manner that keeps cable transitions waterproof and invisible.

Armatures consist of the housing, the flange plate, the seals, and cable glands.

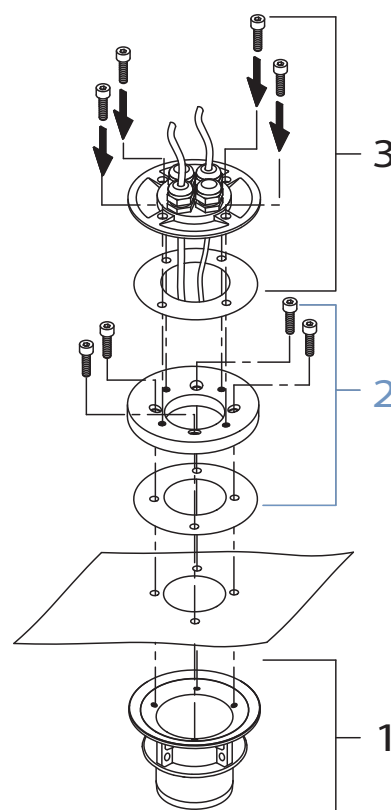
They are mounted on the end of the cable protection pipe that leads from the switchgear to the water pool. The connection ducts of the larger transitions are inserted in the muffs of the cable protection pipes and cast in the concrete. Smaller transitions have a pipe thread and are screw fastened to the PE pipe.

All armatures have bores for connection to the equipotential bonding.

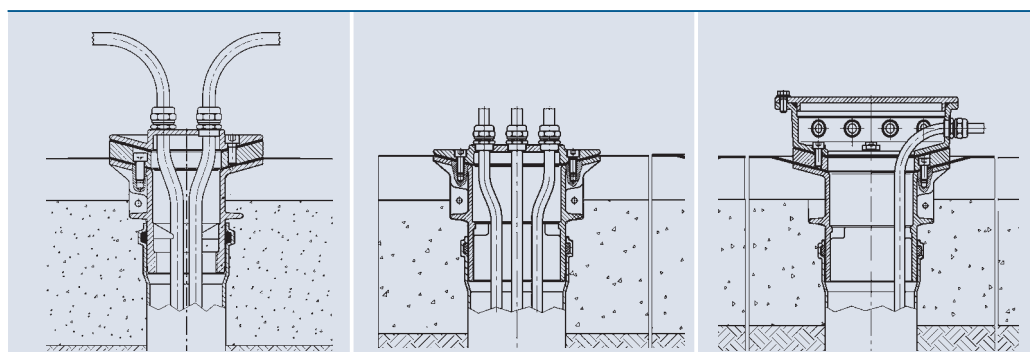
- 1 The concrete part is the basis of every configuration. Available for DN 70 and/or DN 100 pipes.
- 2 The clamping flange for fastening with or without liner. Products without cable transitions are listed on page 134.
- 3 Depending on the requirement a decision is made at this point concerning the specific implementation: Plug, sieve, overflow or level regulator.

#### Product characteristics at a glance



- Elegant and professional connection to cable protection pipes
- Suitable for any type of water pool
- Some units are suitable for liner
- Plug connection for connecting to the KG channel pipe or ED house installation pipe
- Threaded union for connecting to PE pipes









3			
			
			
	<b>KD 4/70 T</b>	<b>KD 7/100 T</b>	<b>KD 12/100 T</b>
Dimensions (ø x H) [mm]	150x50	190x50	230x70
Designation	cable transition	cable transition	cable transition
Number of cable connections	4	7	12
DN	70	100	100
Material	tombac	tombac	tombac
Weight [kg]	1.1	1.9	5.5
Order no.	57470	57464	57465

2 (optional)			
			
	<b>FK 70T KD</b>	<b>FK 100T KD</b>	
Dimensions (ø x H) [mm]	150x25	190x40	
Designation	liner clamping flange KD	liner clamping flange KD	
DN	70	100	
Material	tombac	tombac	
Weight [kg]	2.0	2.9	
Order no.	57473	57474	

1			
			
	<b>B 70 T</b>	<b>B 100 T</b>	
Dimensions (ø x H) [mm]	70x110	100x141	
Designation	concrete part	concrete part	
DN [mm] / [inch]	70 / 2"	100	
Material	tombac	tombac	
Weight [kg]	2.1	3.2	
Order no.	57471	57467	

## CABLE TRANSITION ARMATURES

### KD 1/10 E – KD 2/15 E

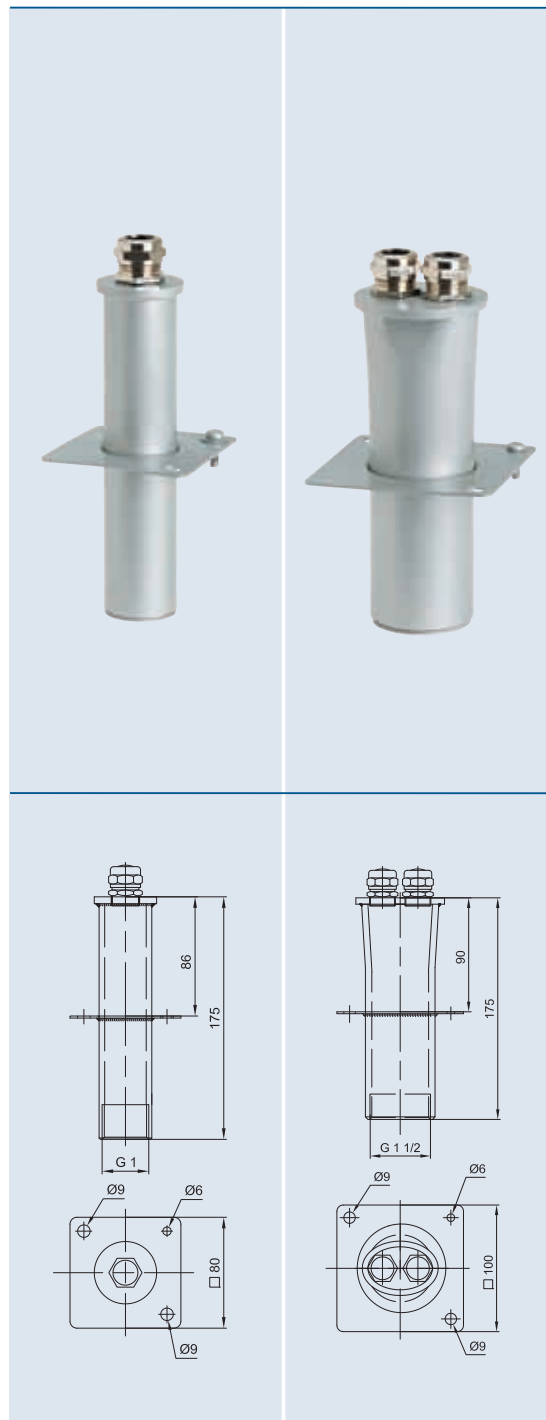
Electrical cables are routed under the water surface in all types of pools via cable transition armatures, in a manner that keeps cable transitions waterproof and invisible.

Armatures consist of the housing, the flange plate, the seals, and cable glands.

These stainless steel armatures are connected above the pipe thread to the cable protection pipe of PE pipe via a threaded union. All of them offer the possibility of connecting a prescribed equipotential bonding and have a concrete-tight flange.

#### Product characteristics at a glance

- Elegant and professional connection to cable protection pipes
- Water-tight cable transitions through concrete basins
- Some units are suitable for liner
- Plug connection for connecting to the KG channel pipe or ED house installation pipe
- Threaded union for connecting to PE pipes



		KD 1/10 E	KD 2/15 E
Dimensions (W x H)	[mm]	80 x 175	100 x 175
Number of cable connections		1	2
Suitable for cable diameter	[mm]	7 – 14	7 – 14
Connections	[inches]	1"	1 1/2"
Material		stainless steel V4A	stainless steel V4A
Weight	[kg]	0.6	0.9
Order no.		51741	51740



## UNDERWATER CABLE CONNECTORS

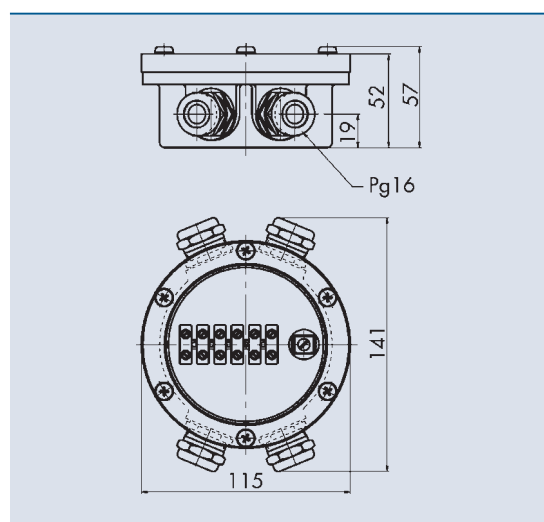
OASE underwater cable connectors are connecting and separating elements for electrical consumers, such as underwater pumps, or underwater spotlights, in all areas of water technology.

They enable trouble-free connection and disconnection of consumers from supply lines. Separation is necessary for example if the consumer must be removed for service purposes. With OASE underwater cable connectors, usually connecting and disconnecting is possible without having to drain the water.

All types have a transparent lid. Several blind plugs are supplied with each underwater cable connector to seal unused cable glands.

### Product characteristics at a glance

- A solution that has proven itself in practice
- For small, medium-sized, and larger consumers
- With transparent lid for checking
- Corrosion resistant



	UKKT3
Dimensions (ø x H)	115 x 57 mm
Number of cable glands	4
Suitable for cable diameter	7 – 14 mm
Number of terminals	5
Number of PE terminals	1
Material	tombac
Weight	1.2 kg
Order no.	51334





## JUNCTION BOX 4/M32, 8/M20, 14/M20 AND 10/M20T

Cable connectors are connecting and separating elements for electrical consumers in all areas of water technology. Consumers can be conveniently connected and disconnected – and thanks to OASE – even without draining the water!

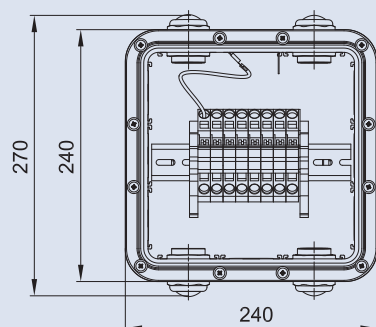
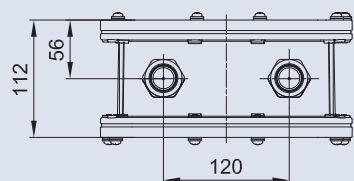
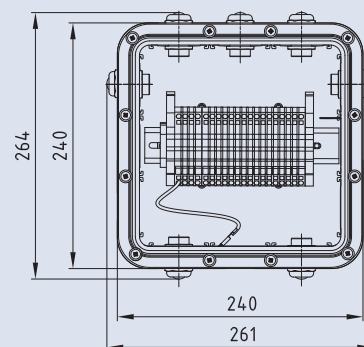
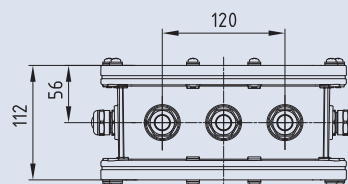
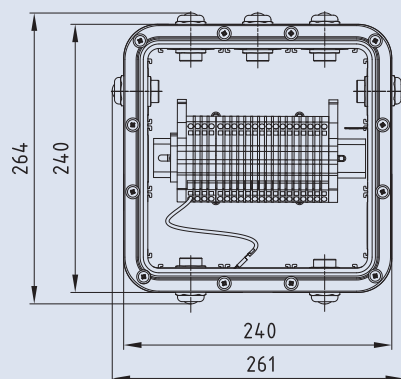
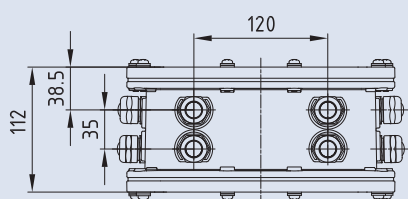
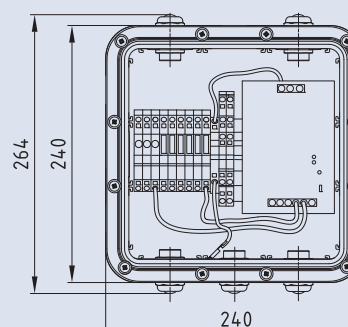
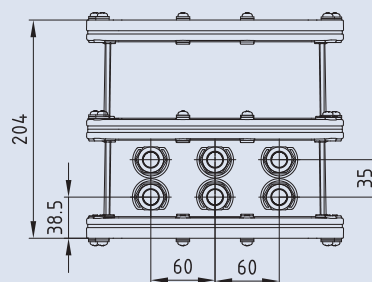
The new junction box is a revolution in the field of underwater cable connectors: It is easy to install and offers many combination possibilities.

The junction box is available in 4 standard versions: The junction box 4/M32 comes with 4 pieces of M32 cable glands, the 8/M20 contains 8 and the 14/M20 comes with 14 pieces of M20 cable glands. The junction box 10/M20 T contains 10 pieces of M20 cable glands and has additionally an electronic switching power supply from 230V AC to 24V DC.

### Product characteristics at a glance

- 4, 8, 10 or 14 cable glands
- Easy service
- Please follow the DIN VDE 0100-702



**4/M 32****8/M 20****14/M 20****10/M 20T**
 230 V AC/50 Hz  
 24 V DC  
 max. 9 A/216 VA

Junction Box		4/M 32	8/M 20	14/M 20	10/M 20/Trafo 230/24V
Dimensions (L x W x H)	[mm]	270 x 240 x 112	264 x 261 x 112	264 x 261 x 112	264 x 261 x 204
Protection class		IP 68	IP 68	IP 68	IP 68
Number of cable glands		4 x M32	8 x M20	14 x M20	10 x M20
Cable diameter	[mm]	6 – 24	6 – 13	6 – 13	6 – 13
Number of terminals		6 (16 mm <sup>2</sup> )	16 (4 mm <sup>2</sup> )	18 (4 mm <sup>2</sup> )	9 (6 mm <sup>2</sup> ) / 2 (4 mm <sup>2</sup> )
Number of PE terminals		2 (16 mm <sup>2</sup> )	5 (4 mm <sup>2</sup> )	6 (4 mm <sup>2</sup> )	3 (4 mm <sup>2</sup> )
Material		PET-GF45 / Makrolon	PET-GF45 / Makrolon	PET-GF45 / Makrolon	PET-GF45 / Makrolon
Weight	[kg]	3.3	3.4	3.9	5.3
Order no.		57485	57486	50358	50360



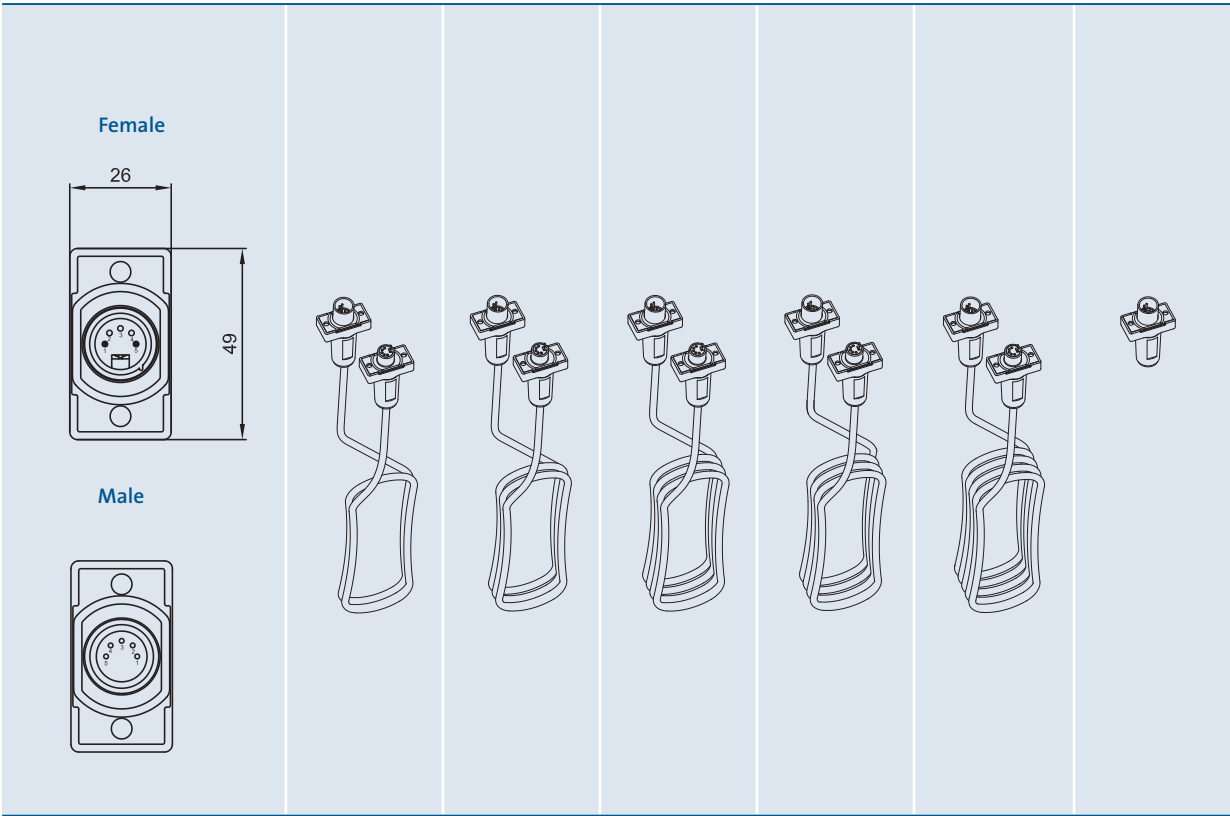
# CONNECTION CABLE DMX

OASE connection cable DMX/01 cables are designed specially for underwater applications.

The unique connection sockets based on XLR standards (5-pole) are IP 68 rated. The gaskets are integrated in the plugs.

**Product characteristics at a glance**

- female / male connections
- IP 68 rated
- 2-core plus shielding



Connection cable DMX/01	1.0 m	3.0 m	5.0 m	10.0 m	20.0 m	End Resistant for Bus-System DMX/01
Length [m]	1.0	3.0	5.0	10.0	20.0	—
Diameter (ø) [mm]	2 x 0.34 <sup>2</sup>	2 x 0.34 <sup>2</sup>	2 x 0.34 <sup>2</sup>	2 x 0.34 <sup>2</sup>	2 x 0.34 <sup>2</sup>	—
Weight [kg]	0.2	0.4	0.7	1.8	3.3	0.1
Order no.	12368	12369	12371	12372	12373	12007



# CONNECTION CABLE

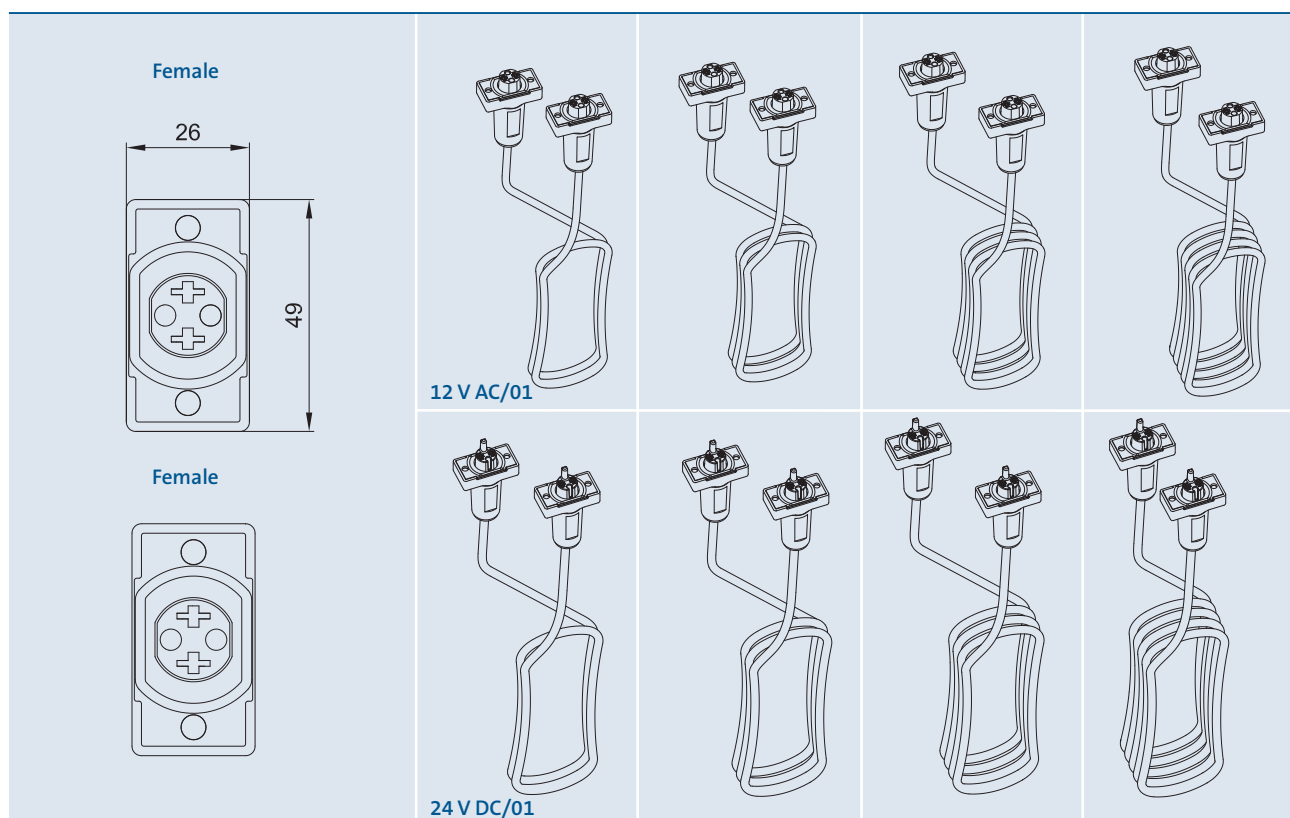
## 12V AC/24V DC

OASE connection cables 12V AC/01 and 24V DC/01 are designed specially for underwater applications.

The unique connection sockets are IP 68 rated. The gaskets are integrated in the plugs.

### Product characteristics at a glance

- female / female connections
- IP 68 rated



Connection Cable 12 V AC/01		1.0 m	3.0 m	7.5 m	15.0 m
Length	[m]	1.0	3.0	7.5	15.0
Diameter (ø)	[mm]	2 x 2.5 <sup>2</sup>	2 x 2.5 <sup>2</sup>	2 x 2.5 <sup>2</sup>	2 x 2.5 <sup>2</sup>
Weight	[kg]	0.2	0.4	1.4	2.6
Order no.		12768	12374	12375	11740

Connection cable 24 V DC/01		1.0 m	3.0 m	7.5 m	15.0 m
Length	[m]	1.0	3.0	7.5	15.0
Diameter (ø)	[mm]	2 x 2.5 <sup>2</sup>	2 x 2.5 <sup>2</sup>	2 x 2.5 <sup>2</sup>	2 x 2.5 <sup>2</sup>
Weight	[kg]	0.2	0.4	1.4	2.6
Order no.		12762	12552	12553	11720

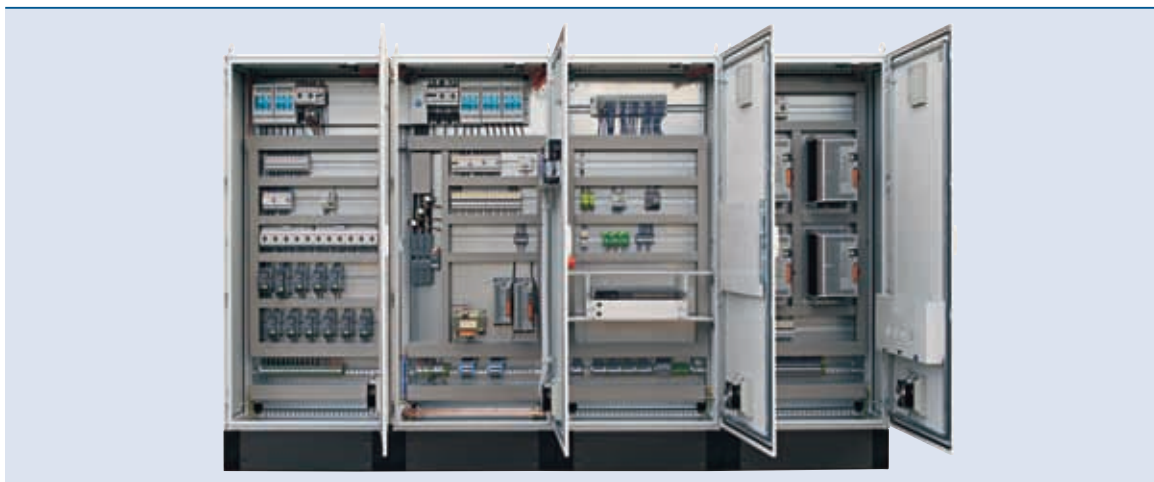


## EVERYTHING UNDER CONTROL AT THE TOUCH OF A BUTTON

**OASE switchgear is the control centre of a fountain system or spray fountain system.**

State-of-the-art manufacturing; our products satisfy the VDE guidelines in all points. They are fitted with all required protection and safety devices, such as a residual current protection switch that switches off the system if nominal residual current greater than 30 mA is detected, so that full safety is always ensured for people and animals.

Safety cut-outs protect individual components in the event of overload and short-circuit. Special motor circuit breakers with 3-phase protection protect the motor in the event of overload and running in 2-phases. Depending on the requirements and customer desires switchgear systems can be fitted with special start-up processes such as star-delta starting or soft start-up to ensure safe start-up of the motors.



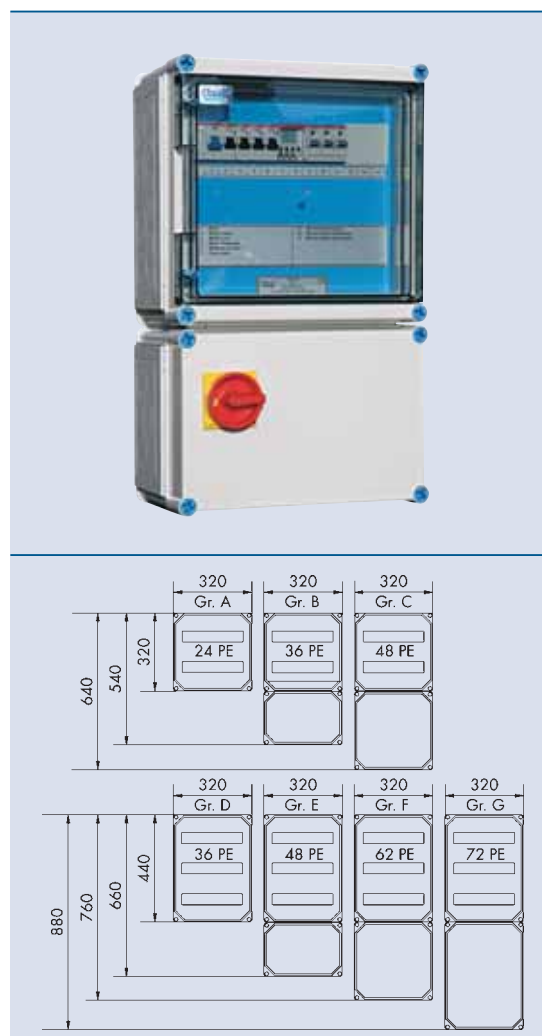


On customer request switchgear can also be equipped with main switches and load-disconnection switches.

Individual components such as pumps, lighting, and water-level controls can be activated with modern manual-0-automatic switches. Pumps and/or illumination can be automatically switched on or off via a 2-channel timer.

Individual components can be controlled and monitored via a PLC. A central monitoring device for querying current status of the components such as pumps, illumination, water-level etc. can be queried via an Ethernet coupling and this data can be analysed at a central location (technical coordination centre).

Appropriate switchgear can be selected from a standard product range for basic applications. In addition OASE manufactures all conceivable special switchgear with supplemental devices to meet customer requirements.







## ELECTRICAL SWITCHGEAR IN STANDARD AND SPECIAL DESIGN

**OASE switchgear and control centres for spray fountain or fountain installations are manufactured with the latest technology. They satisfy the VDE guidelines in all points and are equipped with all required protection and safety fixtures.**

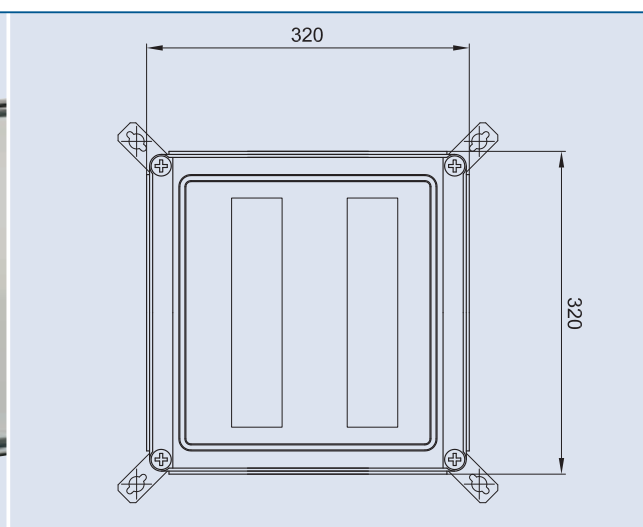
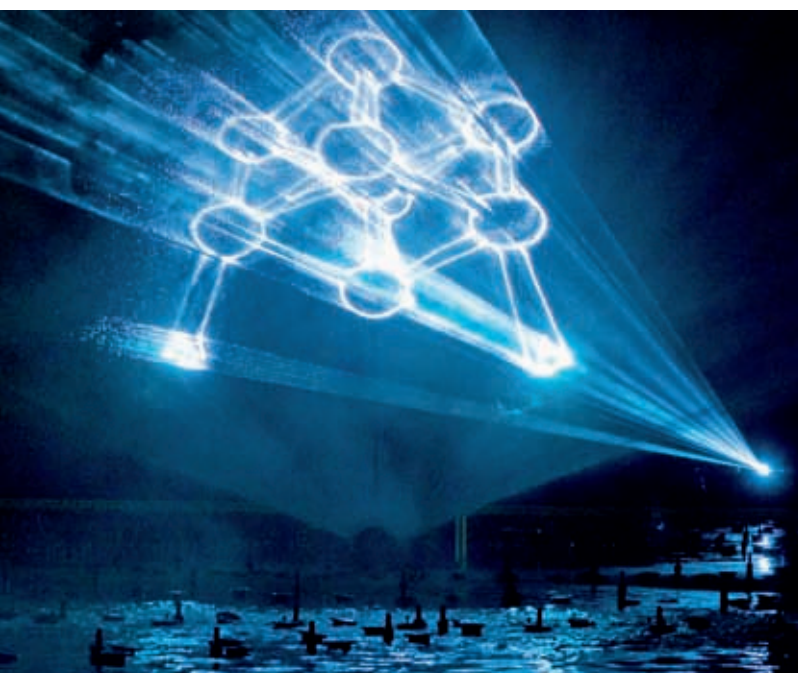
A residual current protection switch switches the system off immediately if nominal residual current greater than 30 mA is detected, so that complete safety is always ensured for people and animals. Safety cut-outs protect individual components in the event of overload and short-circuit. Special protection switches with 3-phase protection prevent overload and running pump motors on 2-phase.

Pump, lighting, and water level regulator can be switched on or off automatically or manually with the modern manual-0-automatic switch in conjunction with 2-channel timers.

The standard models offer suitable switchgear for a variety of applications. In addition OASE manufactures the perfect switchgear with all required additional fixtures for all conceivable customer requirements.

### **Product characteristics at a glance**

- Especially suitable for public systems
- Equipped with all required protection and safety fixtures
- Wired ready-to-connect
- Special solutions are manufactured on customer request



	EL 100 W	EL 101 W	EL 110 W	EL 111 W
Dimensions (LxWxH) [mm]	320x320x200	320x320x200	320x320x200	320x320x200
Protection class	IP 55	IP 55	IP 55	IP 55
Input voltage [V]	1x 230	1x 230	1x 230	1x 230
Residual current protection switch [A]	25/0.03	25/0.03	25/0.03	25/0.03
Timer, Number of programs	2	2	2	2
Output voltage pumps [V]	1x 230	1x 230	1x 230	1x 230
Output power pumps [kW]	1x 0.55	1x 0.55	1x 0.55	1x 0.55
Type of motor start-up	direct	direct	direct	direct
Motor protection switch	no	no	no	no
Output voltage illumination [V][AC]	none	none	1x230	1x 230
Output power illumination [kW]	none	none	1x0,30	1x 0,30
Output voltage water-level regulator [V] [DC]	none	24	none	24
Output voltage water-level regulator [W]	none	1x 15	none	1x 15
Number of M-0-A switches	1	2	2	3
Number of indicator lights	1	2	2	3
Weight [kg]	6.0	6.2	6.2	6.8
Order no.	51341	51342	51343	51344



## EASY CONTROL – FOR YOUR INDEPENDENCE!

With the OASE Easy Control you can easily program your system from a PC or laptop – on a well-organised user interface, with freely programmable sequential programs of up to 512 programmable channels, and everything is transmitted simply via USB – a convincing concept!

The device is quite simple to operate:

The interface module is connected to a laptop or PC via USB connectors, the software is installed, and you are ready to program. Thanks to the well-organised and clearly structured user interface you can create sequential programs without programming skills. The interface module has 256 channels that can be controlled individually. Signals are transmitted via DMX-512.



### Product characteristics at a glance

- Simple programming from PC or laptop
- Signal transmission via USB
- Freely programmable sequential programs
- Up to 256 channels can be programmed in stand-alone operation



## DMX IN DETAIL: INFORMATION ON THE TRANSMISSION PROTOCOL

The transmission protocol for our components (e.g. BEST-LED, Jumping Jet etc.) is sent via a serial bus system (in accordance with the industrial protocol RS 485).

The protocol is based on DMX-512 or DMX-512/1990 and originally comes from the application area of stage and show technology. DMX means Digital MultipleXed.

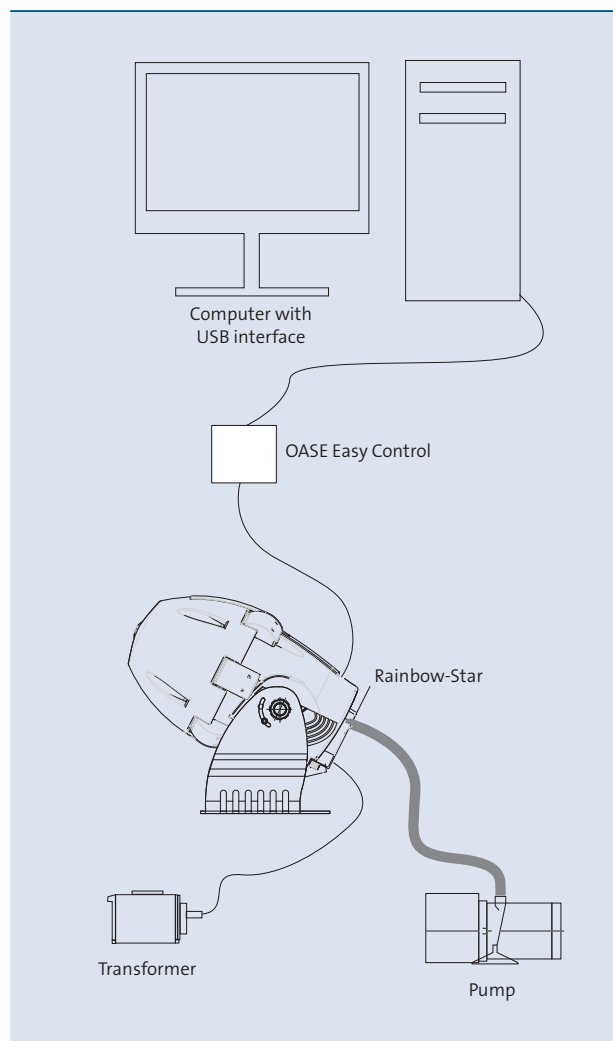
DMX-512 is an accord concerning the connection between control device (transmitters, such as OASE DMX Easy Control or OASE MUSICAL Fountain Control), and receivers (such as BEST-LED, Jumping Jet, dimmer pack, scanners, etc.)

The data network is structured as a bus topology (daisy chain). The advantage of this structure is that you only need one data line to activate the components (spotlights, Jumping Jet, etc.) because you simply loop the DMX line through from device to device. With DMX-512 up to 512 different information signals can be transferred over one DMX line. A maximum of 32 devices (receivers) can be connected to one DMX line

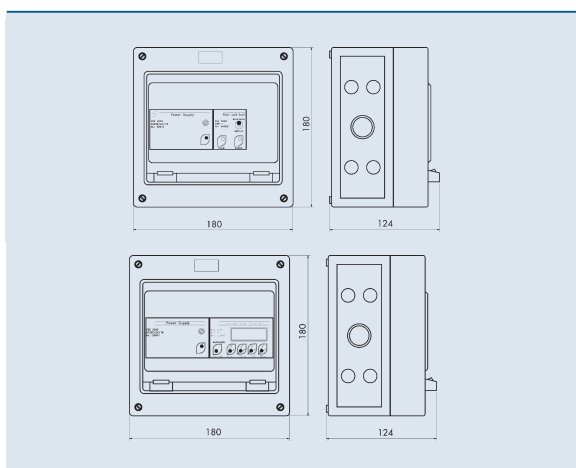
Attention: To ensure correct signal transmission the DMX line should not exceed a length of 100 m.

DMX-capable devices are equipped with standardised 5-pole XLR connectors.

Control devices and transmitters have female connectors, receiving devices (e.g. dimmer packs, Jumping Jets) have male connectors.



Easy Control	
Dimensions (L x W x H)	100 x 80 x 45 mm
Compatibility	DMX-512 / 1990
Channels	512 (transmit mode on the PC) 256 (stand-alone mode)
Connection PC	USB 2.0
Connection bus system	XLR 5-pin male
Supply voltage	USB 12V/DC (external plug-in power supply)
Weight (incl. power supply)	0.2 kg
Order no.	50289



## ELECTRONIC WATER-LEVEL REGULATOR EWR 1 AND EWR 2

The EWR water-level regulator can be used for electronic water-level monitoring, and consequently for automatic top-up infeed of pool water, but it can also be used to switch off pump systems in the event of dry run.

The water-level control device essentially consists of an electronic water-level regulator, a water-level sensor, and a solenoid valve. Depending on the area of implementation individual components are available in different models.

### Product characteristics at a glance

- For electronically monitoring the water level
- Automatic top-up infeed of pool water
- Automatic switch off of pump technology when using water-level sensors incl. dry-run protection electrode

Electronic water-level regulator	EWR 1	EWR 2
Dimensions (LxWxH) [mm]	180 x 180 x 124	180 x 180 x 124
Housing	plastic	plastic
Protection class	IP 54	IP 54
Voltage [V / Hz]	230 / 50	230 / 50
Output power		
Solenoid valve [V / Hz]	230 / 50	230 / 50
[A]	5.0	5.0
Solenoid valve [V / DC]	24	24
[A]	0.5	0.5
Pump [V]	230 / 50	230 / 50
[A]	5.0	5.0
Switch/Button	1	2
Indicator lights	1	1
Connections for electrodes	3	4
Dry-run protection	no	yes
Alarm monitoring	no	yes
Weight [kg]	2.1	2.1
Order no.	51554	55846

# SOLENOID VALVES

## MV 0.5" 24V AND MV 1" 24V

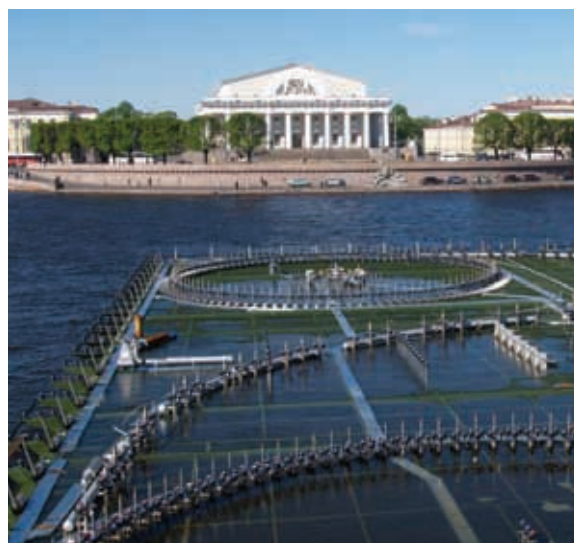
OASE solenoid valves to top-up pool water are installed in the fresh water infeed line of a pool system or in a water reservoir.

In automatic mode, and if there is an empty pool, the solenoid valve in the fresh water infeed line opens and the water flows until it reaches the maximum electrode. As soon as the maximum electrode is reached a non-hazardous control current flows between the maximum electrode and the common electrode. This switches the solenoid valve off and water infeed is interrupted. If the water level drops to a level where the minimum electrode is no longer covered with water, the control current will be interrupted. The solenoid valve opens and allows water to flow until the water level has reached the maximum electrode and the control current flows again.

For greater reliability and safety there are only 24-Volt models.

### Product characteristics at a glance

- For automatic regulation of the water level



Solenoid valves	MV 0.5" 24V	MV 1" 24V
Dimensions (L x W x H) [mm]	67 x 45 x 88	96 x 70 x 108
Function	normally closed	normally closed
Nominal diameter	1/2"	1"
Directions	2/2	2/2
Voltage [V DC]	24	24
Duty cycle	100%	100%
Protection class	IP 65	IP 65
Pressure range [bar]	0.4 – 10	0.4 – 10
Material	brass	brass
Weight [kg]	0.5	1.3
Order no.	51556	51557





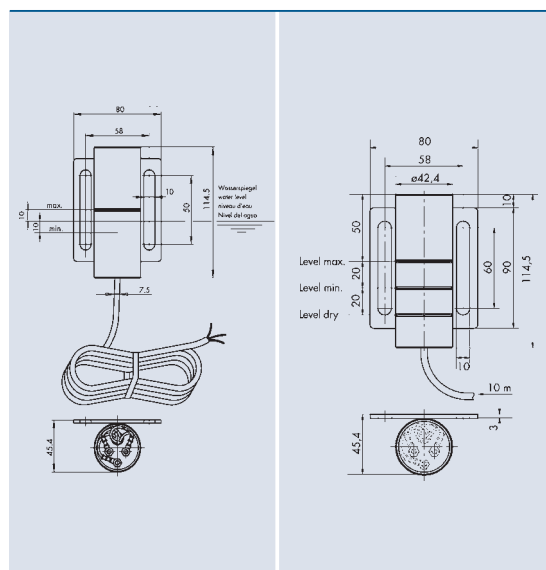
## WATER-LEVEL SENSORS WSS 20-3, WSS 20-4

OASE water-level sensors ensure reliable control of the water level and thus prevent the pool from overflowing.

The stainless steel housings of the WSS 20-3 and WSS 20-4 water-level sensors also take on the function of the common electrode. The minimum and maximum electrodes are in the housing. The permanently set level difference is 20 mm. In addition the WSS 20-4 has a dry-run protection electrode.

### Product characteristics at a glance

- For automatic infeed and top-up feed of freshwater if the water level drops
- Dry-run protection and alarm function can be connected
- Compensates for different water levels
- Robust and reliable technology
- Safe operation



Water-level sensors		WSS 20-3	WSS 20-4
Dimensions (L x W x H)	[mm]	115 x 80 x 46	115 x 80 x 46
Housing		stainless steel	stainless steel
Protection class		IP 68	IP 68
Electrodes		3	4
Common		1	1
Minimum		1	1
Maximum		1	1
Dry-run		-	1
Level difference	[mm]	20	20
Cable length	[m]	10.0	10.0
Weight	[kg]	2.2	2.3
Order no.		51559	53918

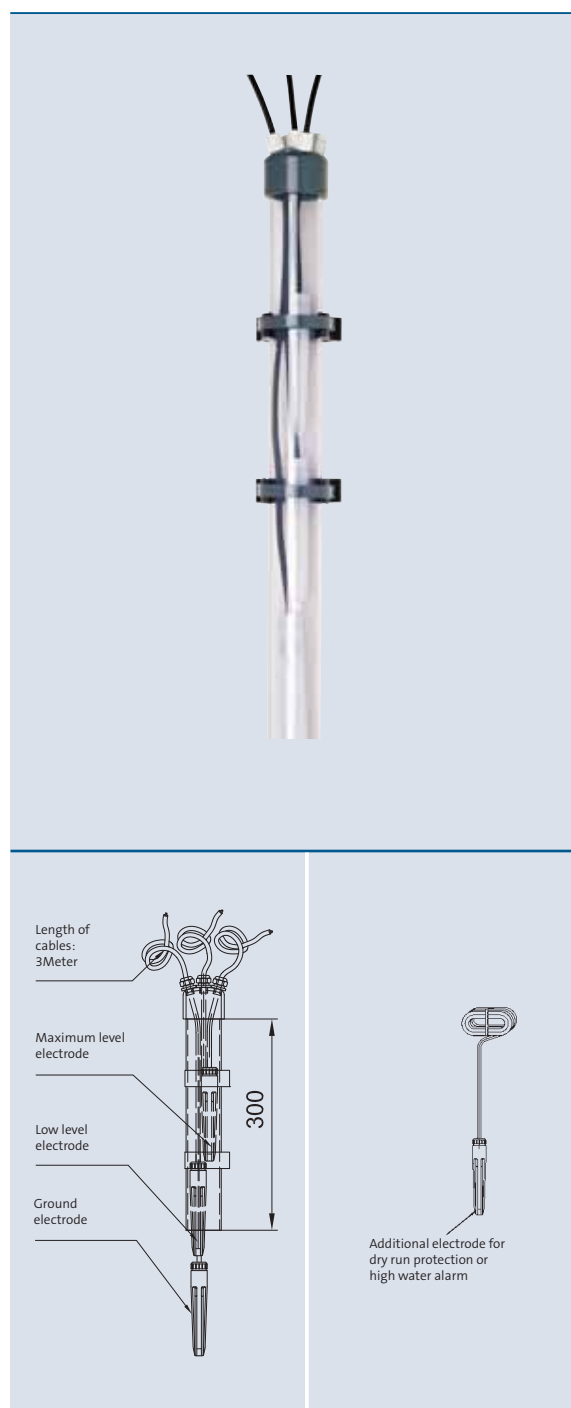
# WATER-LEVEL SENSOR WSS 2000-3/5

The WSS 2000-3/5 water level sensor is designed for greater level differences of approximately 50 to 2000 mm, such as occur in water reservoirs.

It can be retrofitted with a dry run protection electrode. The electrodes can be adjusted according to the level differences via the cable length. They give switch on and switch off commands to regulate the water level or to protect the pump technology (ZE 2000-1).

## Product characteristics at a glance

- For automatic infeed and top-up feed of freshwater if the water level drops
- With dry-run protection and alarm function
- Compensates for different water levels
- Robust and reliable technology
- Safe operation



Water-level sensor	WSS 2000-3/5	Supplemental electrode ZE 2000 -1
Dimensions (L x W x H) [mm]	115 x 80 x 46	
Housing	plastic	plastic
Protection class	IP 68	IP 68
Electrodes	3	1
Common	1	-
Minimum	1	-
Maximum	1	-
Dry-run	-	1
Level difference [mm]	max. 2500	max. 2500
Cable length [m]	3.0	3.0
Weight [kg]	2.5	0.3
Order no.	55845	55843



## CONTROL DEVICE AND ANEMOMETER

If there is stormy weather fountains often have an inharmonious effect and fountain operation gets the surrounding area wet. Wind-level fountain controls reduce the fountain height, or completely switches the system off depending on weather conditions.

The WFA 3/K control device directly switches off the pump at a certain wind levels. If multiple pumps are operated that feed one fountain, they can be switched off one after the other. Or two bypass valves are opened depending on the wind and the pump is switched off only in the third step.

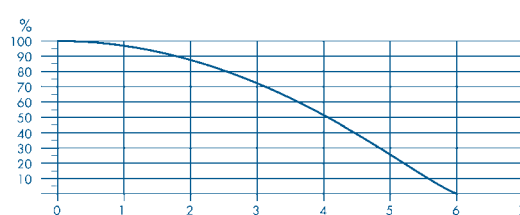
The control device is usually placed next to the control cabinet of the fountain system. The control cables of the pumps are routed out of the control cabinet and connected. Wind conditions on the anemometer and on the fountains should be identical if possible, consequently the anemometer should be slightly elevated and mounted on a mast or a roof in the vicinity of the fountain. The pulse

lines of the anemometer should be shielded and routed to the WFA 3/K control device via the shortest path possible.

### Product characteristics at a glance

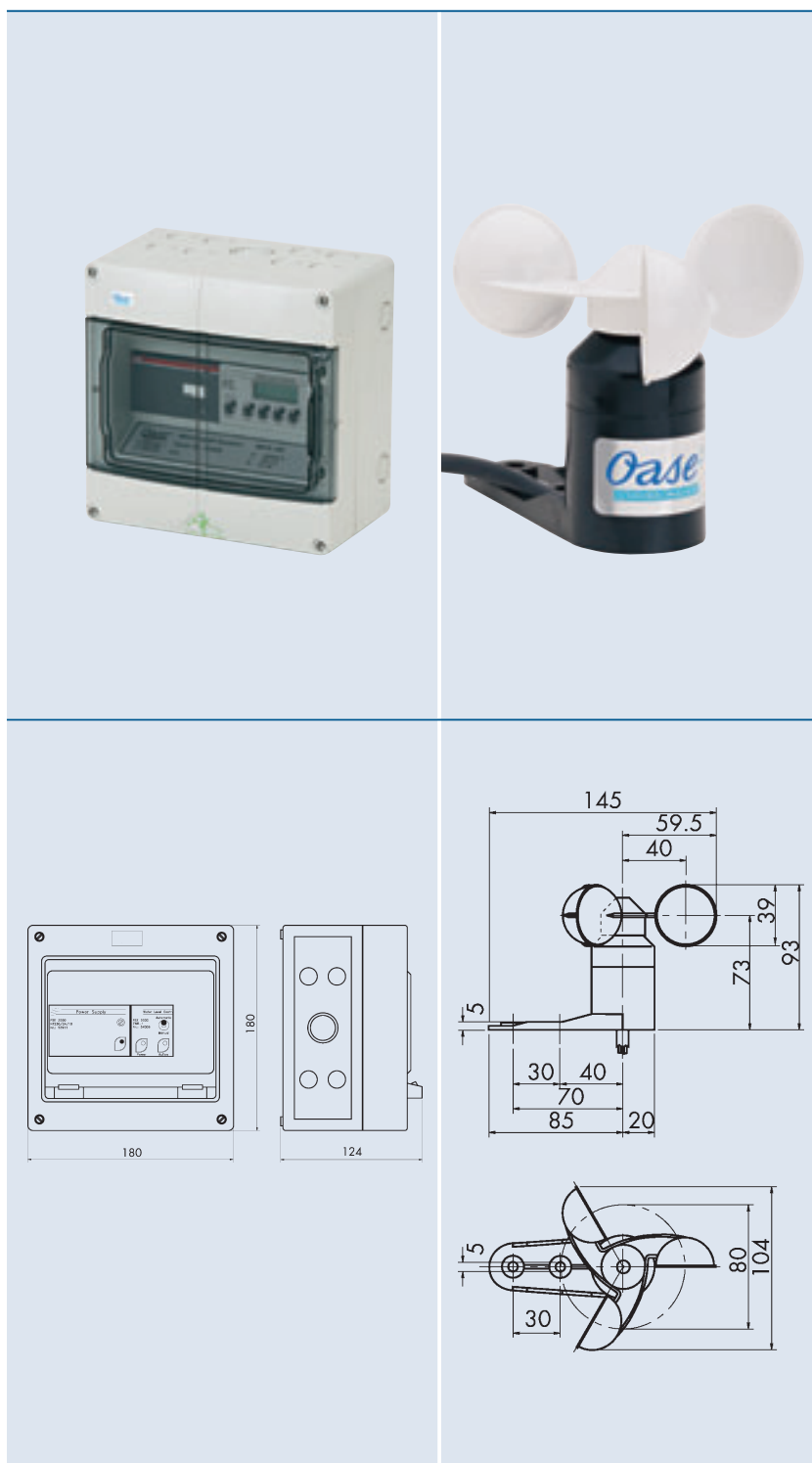
- Wind-dependent switch-off in 3 stages
- Saves water and power costs
- Weather-dependent harmonious water pattern
- No irritated passers-by
- Easy to install

Possible fountain heights in %



Wind forces from 0 – 6 according to the Beaufort wind force scale





	Wind level fountain control <b>WFA 3/K</b>	<b>Anemometer K</b>
Dimensions (L x W x H)	180 x 180 x 124	145 x 104 x 93
Housing	plastic	plastic
Protection class	IP 54	IP 54
Voltage	230 / 50	230 / 50
Switch/button	5	—
Indicator light	1	—
Control lines	3	—
Contact load	5	—
Weight	2.2	0.8
Order no.	<b>51838</b>	<b>53913</b>

## ALPHABETICAL PRODUCT OVERVIEW

Order no.	Description	page	Order no.	Description	page
56866	Active oxygen ADR 90	56	50912	Cascade 70 T	104
50433	AFM filter medium 25 Kg	54	50915	Cascade 90 T	104
50183	Air Flo 1.5 kW / 230V	38	50917	Cascade 130 T	104
50184	Air Flo 1.5 kW / 400V	38	50434	Clear Fountain System	56
50185	Air Flo 4.0 kW / 400V	38	58960	Clear Lake System CLS 500	58
53913	Anemometer K	166	58960	Clear Lake System CLS 5000	58
51093	Anti-algae agent ASS 100	56	58960	Clear Lake System CLS 20000	58
36656	Aqua Activ Hardness Plus 5 L	47	56129	Colour lens for Lunaqua 10, blue	76
50459	Aqua Activ stringalgae control direct5kg	46	56131	Colour lens for Lunaqua 10, green	76
50458	Aqua Activ stringalgae ctrl dir500g(PU6)	46	56132	Colour lens for Lunaqua 10, red	76
57479	Aqua Air 250	36	56130	Colour lens for Lunaqua 10, yellow	76
52004	Atlantis 200	116	27565	Colour lens set for Lunaqua 3 Solo	78
57475	Bacto Plus	44	50959	Comet 3 - 5 T	94
37143	BD 100 Bottom Drain	52	50960	Comet 3 - 6 T	94
50338	BEST LED /DMX/01	88	50965	Comet 5 - 10 T	94
57129	Biotec 36 Screenmatic	49	50964	Comet 5 - 8 T	94
56902	Bitron 110C	48	50968	Comet 10 - 12 T	94
57478	Bitron 550	50	56780	Comet 10 - 12 T long	95
57044	BT 1,5-50-4	121	50969	Comet 10 - 14 T	95
57048	BT 1.1-65-4	121	50218	Comet 10 - 14 T long	95
57057	BT 11.0-100-4	121	50970	Comet 15 - 17 T	95
57060	BT 15.0-125-4	121	57471	Concrete part B 70 T	134
57041	BT 2.2-40-4	121	57467	Concrete part B 100 T	134
57051	BT 3.0-80-4	121	12768	Connection cable 12V AC /1.0m/01	155
57046	BT 4.0-50-4	121	11740	Connection cable 12V AC /15.0m/01	155
57052	BT 4.0-80-4	121	12374	Connection cable 12V AC /3.0m/01	155
57053	BT 5.5-80-4	121	12375	Connection cable 12V AC /7.5m/01	155
57056	BT 7.5-100-4	121	12762	Connection cable 24V DC /1.0m/01	155
51741	Cable transition KD 1/10 E	150	11720	Connection cable 24V DC /15.0m/01	155
51740	Cable transition KD 2/15 E	150	12552	Connection cable 24V DC /3.0m/01	155
57470	Cable transition KD 4/70 T	148	12553	Connection cable 24V DC /7.5m/01	155
57464	Cable transition KD 7/100 E	148	12368	Connection cable DMX /1.0m/01	154
57465	Cable transition KD 12/100 E	148	12372	Connection cable DMX /10.0m/01	154
50911	Cascade 50 T	104	12373	Connection cable DMX /20.0m/01	154

Order no.	Description	page	Order no.	Description	page
12369	Connection cable DMX /3.0m/01	154	52920	Halogen reflector bulb 12V,50W,24°,white	82
12371	Connection cable DMX /5.0m/01	154	52941	Halogen reflector bulb 12V,75W,24°,white	74
53428	Crystal quartz sand (sack 25 kg)	54	52923	Halogen reflector bulb 12V,75W,24°,white	82
51973	Debris sieve WS 70 E	134	51394	Halogen reflector bulb 50W, 24°	81
51974	Debris sieve WS 100 E	134	50973	Hollow Jet Nozzle 100	96
50289	Easy Control	160	50212	Illumination Set Flexy Jet	64
51554	Electronic water level control EWR 1	162	50188	Illumination Set MIDI/MAXI/AIR FLO Halogen	70
55846	Electronic water level control EWR 2	162	50479	Illumination Set MIDI/MAXI/AIRFLO LED/01	38
12007	Endplug for BUS-System DMX/01	154	57083	Illumination Set Pond Jet Classic 70	62
53056	Fan Jet 10 - 6 E	101	53086	Inflow nozzle ESD 15 E	140
53047	Fan Jet 15 - 8 E	101	56886	InScenio FM-Profimaster	116
50143	Flexy Jet 6	64	50346	Jumping Jet Rainbow Flash /DMX/01	20
51141	Floor/wall transition BWD 10-175 E	140	50345	Jumping Jet Rainbow Star /DMX/01	22
51142	Floor/wall transition BWD 15-175 E	140	57485	Junction Box 4/M32	152
51143	Floor/wall transition BWD 20-175 E	140	57486	Junction Box 8/M20	152
52790	Floor/wall transition BWD 40-175 E	140	50360	Junction Box 10/M20/Trafo 230/24V	152
51145	Floor/wall transition BWD/F 10-175 E	141	50358	Junction Box 14/M20	152
51146	Floor/wall transition BWD/F 15-175 E	141	51108	Liner clamping flange FK 70 T	134
51147	Floor/wall transition BWD/F 20-175 E	141	57473	Liner clamping flange FK 70 T KD	148
53013	Floor/wall transition BWD/F 40-175 E	141	51117	Liner clamping flange FK 100 T	134
55840	Fresh water inlet armature FE 10/1040 T	140	57474	Liner clamping flange FK 100 T KD	148
50991	Geyser 20 T	106	54034	Lunaqua 10	76
50992	Geyser 40 T	106	50366	Lunaqua 10 LED /01	86
50993	Geyser 60 T	106	57141	Lunaqua 3 Solo	78
50994	Geyser 80 T	106	57427	Lunaqua 5.1	79
57476	Ground Clear	45	50371	MAXI II 4.0KW / 400V	66
50976	Gushing nozzle 115-15 T	100	50365	MIDI II 1.1KW / 230V	66
70703	Halogen bulb 20 W	78	50370	MIDI II 2.2KW / 400V	66
54035	Halogen bulb 35 W (PU 10)	76	52908	Multi-Power MPT 3	82
54036	Halogen bulb 50 W (PU 10)	76	50377	Nozzle Grand Geyser 3" MIDI II/MAXI II	68
54037	Halogen bulb 75 W (PU 10)	76	50376	Nozzle Grand Vulcan 3" MIDI II/MAXI II	69
52943	Halogen reflector bulb 12V, 100W, 24°	74	50375	Nozzle High Jet 3" MIDI II/MAXI II	68
52942	Halogen reflector bulb 12V,100W,10°, white	82	50333	Nozzle Okanagan 1.5 kW/2 HP	38
52939	Halogen reflector bulb 12V,50W,24°,white	74	50348	Nozzle Okanagan 4.0 kW/5 HP	38



## ALPHABETICAL PRODUCT OVERVIEW

Order no.	Description	page	Order no.	Description	page
50349	Nozzle Superior 1.5 kW/2 HP	38	56872	Profinaut 40	115
50350	Nozzle Superior 4.0 kW/5 HP	38	57134	Profiskim 100	40
50378	Nozzle Trumpet Jet 3" MIDI II/MAXI II	69	55441	Promax 20,000	113
50477	Nozzle-Chamber Single	130	55442	Promax 30,000	113
50478	Nozzle-Chamber Vario	130	56812	Reflector bulb PAR 38, 12V/100W/30°	79
50334	Nozzle-Star LED /DMX/01	90	51984	Reflector bulb PAR 56, 12V/300W/36-18°	84
57091	Optimax 10000	112	56737	Repl. Filter Foam Biotec 18/36, Blue (PU3)	49
57092	Optimax 15000	112	56736	Repl. Filter Foam Biotec 18/36, Red (PU3)	49
57093	Optimax 20000	112	51123	Return armature RA 200/100 T	138
51120	Overfl. wall-inst. comb. arm. UWK 100 E	143	51124	Return armature RA 250/150 T	138
57469	Overflow/drain armature UA 70 / 1000 T	136	50473	Rotating nozzle 5-30 E	99
57463	Overflow/drain armature UA 100 / 1000 T	136	50431	Sand filter D 600	54
52602	Overflow/return box URK 100 E	142	50432	Sand filter D 800	54
53091	pH value reducer pHW 30	56	50979	Schaumquell 50 - 10 T	102
57477	Phosless (PU 15)	43	50980	Schaumquell 75 - 20 T	102
36981	Phosless cartridge	52	50984	Schaumsprudler 35 - 10 E	102
57468	Plug S 70 T	134	50986	Schaumsprudler 55 - 10 E	102
57462	Plug S 100 T	134	50987	Schaumsprudler 55 - 15 E	102
57075	Pond Jet Floating Fountain Classic 70	63	57480	Skimmer 250	41
56897	Proficlear M1	52	51556	Solenoid valve MV 0,5"/24V	163
37108	Proficlear M2	52	51557	Solenoid valve MV 1,0"/24V	163
37107	Proficlear M3	53	53852	SPA 100-13, 3 x 400V / 50Hz, YD, 5.5kW	123
37144	Proficlear M4 (Bioballs)	53	53854	SPA 100-33, 3 x 400V / 50Hz, YD, 11.0kW	123
37109	Proficlear M5	53	53858	SPA 162-1-13, 3 x 400V / 50Hz, YD, 7.5kW	123
57094	Proficlear Screendrive	52	53859	SPA 162-13, 3 x 400V / 50Hz, YD, 11.0kW	123
56898	Profilux E 100	74	53860	SPA 162-2-23, 3 x 400V / 50Hz, YD, 15.0kW	123
56133	Profilux E 101	74	53834	SPA 22-23, 3 x 400V / 50Hz, 1.1kW	122
50367	Profilux LED 12V /01	86	53835	SPA 22-33, 3 x 400V / 50Hz, 2.2kW	122
50474	Profilux LED 24V /01	86	53864	SPA 280-1-13, 3 x 400V / 50Hz, YD, 15.0kW	123
56873	Profimax 20000	114	53865	SPA 280-13, 3 x 400V / 50Hz, YD, 18.5kW	123
56874	Profimax 30000	114	53866	SPA 280-2-23, 3 x 400V / 50Hz, YD, 30.0kW	123
56875	Profimax 40000	114	53839	SPA 35-23, 3 x 400V / 50Hz, 2.2kW	122
56870	Profinaut 21	115	53845	SPA 58-23, 3 x 400V / 50Hz, 3.0kW	123
56871	Profinaut 27	115	53846	SPA 58-33, 3 x 400V / 50Hz, YD, 5.5kW	123

Order no.	Description	page	Order no.	Description	page
56636	Spare UVC-Lamp 55 W Bitron (PU2)	48	55732	USP 662 W, 1 x 230V / 50Hz, 1.12kW	119
56636	Spare UVC-Lamp 55 W Bitron (PU2)	50	55731	USP 663 D, 3 x 400V / 50Hz, 1.18kW	119
57466	Standpipe RA 100/500 T	138	55735	USP 813 D, 3 x 400V / 50Hz, 1.50kW	119
51082	Suction filter basket SF 200/100/15 E	144	56734	USP Classic 70	117
51083	Suction filter basket SF 200/166/20 E	144	56506	USP H 673 D, 3 x 400V / 50Hz, 1.55kW	119
51084	Suction filter basket SF 200/250/25 E	144	57288	UWS K 300	84
54755	Suction filter basket SF 350/350/125 E	145	52904	UWS T 111	82
51753	Suction filter basket SF350/185/80/100E	145	51446	UWS TN 508	81
51756	Suction filter basket SF600/280/150/200E	145	52909	UWS TS 111	82
55843	Supplemental electrode ZE 2000-1	165	50136	Varionaut 1 /DMX/01	124
37287	Swimflex DA 63	30	50343	Varionaut 2 /DMX/01	126
37246	SWIMFOL classic	30	50253	Vario-Switch 010a/12V	108
37256	SWIMFOL KG-Liner transition DN 100	30	57472	Vario-Switch 010a/24V	108
37252	SWIMFOL Liner connection DA 50 (PU 2)	30	50254	Vario-Switch 015a/12V	108
37254	SWIMFOL Liner transition DA 50	30	57435	Vario-Switch 015a/24V	108
37255	SWIMFOL Liner transition DA 63	30	50950	Vulkan 43 - 3 T	98
37248	SWIMFOL protective fleece 500gr.	30	50270	Water Analysis Set	42
57143	Swimpond 20	28	51762	Water hemisphere 2500 half	97
57284	Swimpond 20 without liner relocation	28	55845	Water level sensor 2000-3/5	165
57144	Swimpond 32	28	51559	Water level sensor 20-3	164
57285	Swimpond 32 without liner relocation	28	53918	Water level sensor 20-4	164
37415	Swimpond construction DVD	31	51759	Water sphere 2500 whole	97
37249	SWIMPOND Liner sheet (PU 5)	30	51838	Wind-dependent fountain control WFA 3/K 166	
51341	Switchgear EL 100 W	158			
51342	Switchgear EL 101 W	158			
51343	Switchgear EL 110 W	158			
51344	Switchgear EL 111 W	158			
50336	Twin-Star LED /DMX/01	91			
51334	Underwater cable connector UKK T 3	151			
50401	Underwater transformer UST 150 /01	76			
55721	USP 412 W, 1 x 230V / 50Hz, 0.52kW	118			
55720	USP 413 D, 3 x 400V / 50Hz, 0.48kW	118			
55727	USP 512 W, 1 x 230V / 50Hz, 0.60kW	119			
55726	USP 513 D, 3 x 400V / 50Hz, 0.77kW	119			

## PRODUCT OVERVIEW BY ORDER NO.

Order no.	Description	page	Order no.	Description	page
11720	Connection cable 24V DC /15.0m/01	155	50184	Air Flo 1.5 kW / 400V	38
11740	Connection cable 12V AC /15.0m/01	155	50185	Air Flo 4.0 kW / 400V	38
12007	Endplug for BUS-System DMX/01	154	50188	Illumination Set MIDI/MAXI/AIR FLO Halogen	70
12368	Connection cable DMX /1.0m/01	154	50212	Illumination Set Flexy Jet	64
12369	Connection cable DMX /3.0m/01	154	50218	Comet 10 - 14 T long	95
12371	Connection cable DMX /5.0m/01	154	50253	Vario-Switch 010a/12V	108
12372	Connection cable DMX /10.0m/01	154	50254	Vario-Switch 015a/12V	108
12373	Connection cable DMX /20.0m/01	154	50270	Water Analysis Set	42
12374	Connection cable 12V AC /3.0m/01	155	50289	Easy Control	160
12375	Connection cable 12V AC /7.5m/01	155	50333	Nozzle Okanagan 1,5 kW/2 HP	38
12552	Connection cable 24V DC /3.0m/01	155	50334	Nozzle-Star LED /DMX/01	90
12553	Connection cable 24V DC /7.5m/01	155	50336	Twin-Star LED /DMX/01	91
12762	Connection cable 24V DC /1.0m/01	155	50338	BEST LED /DMX/01	88
12768	Connection cable 12V AC /1.0m/01	155	50343	Varionaut 2 /DMX/01	126
27565	Colour lens set for Lunaqua 3 Solo	78	50345	Jumping Jet Rainbow Star /DMX/01	22
36656	Aqua Activ Hardness Plus 5 L	47	50346	Jumping Jet Rainbow Flash /DMX/01	20
36981	Phosless cartridge	52	50348	Nozzle Okanagan 4.0 kW/5 HP	38
37107	Proficlear M3	53	50349	Nozzle Superior 1.5 kW/2 HP	38
37108	Proficlear M2	52	50350	Nozzle Superior 4.0 kW/5 HP	38
37109	Proficlear M5	53	50358	Junction Box 14/M20	152
37143	BD 100 Bottom Drain	52	50360	Junction Box 10/M20/Trafo 230/24V	152
37144	Proficlear M4 (Bioballs)	53	50365	MIDI II 1.1KW / 230V	66
37246	SWIMFOL classic	30	50366	Lunaqua 10 LED /01	86
37248	SWIMFOL protective fleece 500gr.	30	50367	Profilux LED 12V /01	86
37249	SWIMPOND Liner sheet (PU 5)	30	50370	MIDI II 2.2KW / 400V	66
37252	SWIMFOL Liner connection DA 50 (PU 2)	30	50371	MAXI II 4.0KW / 400V	66
37254	SWIMFOL Liner transition DA 50	30	50375	Nozzle High Jet 3" MIDI II/MAXI II	68
37255	SWIMFOL Liner transition DA 63	30	50376	Nozzle Grand Vulcan 3" MIDI II/MAXI II	69
37256	SWIMFOL KG-Liner transition DN 100	30	50377	Nozzle Grand Geyser 3" MIDI II/MAXI II	68
37287	Swimflex DA 63	30	50378	Nozzle Trumpet Jet 3" MIDI II/MAXI II	69
37415	Swimpond construction DVD	31	50401	Underwater transformer UST 150 /01	76
50136	Varionaut 1 /DMX/01	124	50431	Sand filter D 600	54
50143	Flexy Jet 6	64	50432	Sand filter D 800	54
50183	Air Flo 1.5 kW / 230V	38	50433	AFM filter medium 25 Kg	54



Order no.	Description	page	Order no.	Description	page
50434	Clear Fountain System	56	51093	Anti-algae agent ASS 100	56
50458	Aqua activ stringalgae ctrl dir500g(PU6)	46	51108	Liner clamping flange FK 70 T	134
50459	Aqua activ stringalgae control direct5kg	46	51117	Liner clamping flange FK 100 T	134
50473	Rotating nozzle 5-30 E	99	51120	Overfl. wall-inst. comb. arm. UWK 100 E	143
50474	Profilux LED 24V /01	86	51123	Return armature RA 200/100 T	138
50477	Nozzle-Chamber Single	130	51124	Return armature RA 250/150 T	138
50478	Nozzle-Chamber Vario	130	51141	Floor/wall transition BWD 10-175 E	140
50479	Illumination Set MIDI/MAXI/AIRFLO LED/01	38	51142	Floor/wall transition BWD 15-175 E	140
50911	Cascade 50 T	104	51143	Floor/wall transition BWD 20-175 E	140
50912	Cascade 70 T	104	51145	Floor/wall transition BWD/F 10-175 E	141
50915	Cascade 90 T	104	51146	Floor/wall transition BWD/F 15-175 E	141
50917	Cascade 130 T	104	51147	Floor/wall transition BWD/F 20-175 E	141
50950	Vulkan 43 - 3 T	98	51334	Underwater cable connector UKK T 3	151
50959	Comet 3 - 5 T	94	51341	Switchgear EL 100 W	158
50960	Comet 3 - 6 T	94	51342	Switchgear EL 101 W	158
50964	Comet 5 - 8 T	94	51343	Switchgear EL 110 W	158
50965	Comet 5 - 10 T	94	51344	Switchgear EL 111 W	158
50968	Comet 10 - 12 T	94	51394	Halogen reflector bulb 50W, 24°	81
50969	Comet 10 - 14 T	95	51446	UWS TN 508	81
50970	Comet 15 - 17 T	95	51554	Electronic water level control EWR 1	162
50973	Hollow Jet Nozzle 100	96	51556	Solenoid valve MV 0.5"/24V	163
50976	Gushing nozzle 115-15 T	100	51557	Solenoid valve MV 1.0"/24V	163
50979	Schaumquell 50 - 10 T	102	51559	Water level sensor 20-3	164
50980	Schaumquell 75 - 20 T	102	51740	Cable transition KD 2/15 E	150
50984	Schaumsprudler 35 - 10 E	102	51741	Cable transition KD 1/10 E	150
50986	Schaumsprudler 55 - 10 E	102	51753	Suction filter basket SF350/185/80/100E	145
50987	Schaumsprudler 55 - 15 E	102	51756	Suction filter basket SF600/280/150/200E	145
50991	Geyser 20 T	106	51759	Water sphere 2500 whole	97
50992	Geyser 40 T	106	51762	Water hemisphere 2500 half	97
50993	Geyser 60 T	106	51838	Wind-dependent fountain control WFA 3/K	166
50994	Geyser 80 T	106	51973	Debris sieve WS 70 E	134
51082	Suction filter basket SF 200/100/15 E	144	51974	Debris sieve WS 100 E	134
51083	Suction filter basket SF 200/166/20 E	144	51984	Reflector bulb PAR 56, 12V/300W/36-18°	84
51084	Suction filter basket SF 200/250/25 E	144	52004	Atlantis 200	116

# PRODUCT OVERVIEW BY ORDER NO.

Order no.	Description	page	Order no.	Description	page
52602	Overflow/return box URK 100 E	142	54036	Halogen bulb 50 W (PU 10)	76
52790	Floor/wall transition BWD 40-175 E	140	54037	Halogen bulb 75 W (PU 10)	76
52904	UWS T 111	82	54755	Suction filter basket SF 350/350/125 E	145
52908	Multi-Power MPT 3	82	55441	Promax 20,000	113
52909	UWS TS 111	82	55442	Promax 30,000	113
52920	Halogen reflector bulb 12V,50W,24°,white	82	55720	USP 413 D, 3 x 400V / 50Hz, 0.48kW	118
52923	Halogen reflector bulb 12V,75W,24°,white	82	55721	USP 412 W, 1 x 230V / 50Hz, 0.52kW	118
52939	Halogen reflector bulb 12V,50W,24°,white	74	55726	USP 513 D, 3 x 400V / 50Hz, 0.77kW	119
52941	Halogen reflector bulb 12V,75W,24°,white	74	55727	USP 512 W, 1 x 230V / 50Hz, 0.60kW	119
52942	Halogen reflector bulb 12V,100W,10°, white	82	55731	USP 663 D, 3 x 400V / 50Hz, 1.18kW	119
52943	Halogen reflector bulb 12V, 100W, 24°	74	55732	USP 662 W, 1 x 230V / 50Hz, 1.12kW	119
53013	Floor/wall transition BWD/F 40-175 E	141	55735	USP 813 D, 3 x 400V / 50Hz, 1.50kW	119
53047	Fan Jet 15 - 8 E	101	55840	Fresh water inlet armature FE 10/1040 T	140
53056	Fan Jet 10 - 6 E	101	55843	Supplemental electrode ZE 2000-1	165
53086	Inflow nozzle ESD 15 E	140	55845	Water level sensor 2000-3/5	165
53091	pH value reducer pHW 30	56	55846	Electronic water level control EWR 2	162
53428	Crystal quartz sand (sack 25 kg)	54	56129	Colour lens for Lunaqua 10, blue	76
53834	SPA 22-23, 3 x 400V / 50Hz, 1.1kW	122	56130	Colour lens for Lunaqua 10, yellow	76
53835	SPA 22-33, 3 x 400V / 50Hz, 2.2kW	122	56131	Colour lens for Lunaqua 10, green	76
53839	SPA 35-23, 3 x 400V / 50Hz, 2.2kW	122	56132	Colour lens for Lunaqua 10, red	76
53845	SPA 58-23, 3 x 400V / 50Hz, 3,0kW	123	56133	Profilux E 101	74
53846	SPA 58-33, 3 x 400V / 50Hz, YD, 5.5kW	123	56506	USP H 673 D, 3 x 400V / 50Hz, 1,55kW	119
53852	SPA 100-13, 3 x 400V / 50Hz, YD, 5.5kW	123	56636	Spare UVC-Lamp 55 W Bitron (PU2)	48
53854	SPA 100-33, 3 x 400V / 50Hz, YD, 11.0kW	123	56636	Spare UVC-Lamp 55 W Bitron (PU2)	50
53858	SPA 162-1-13, 3 x 400V / 50Hz, YD, 7.5kW	123	56734	USP Classic 70	117
53859	SPA 162-13, 3 x 400V / 50Hz, YD, 11.0kW	123	56736	Repl. Filter Foam Biotec 18/36, Red (PU3)	49
53860	SPA 162-2-23, 3 x 400V / 50Hz, YD,15.0kW	123	56737	Repl. Filter Foam Biotec 18/36, Blue (PU3)	49
53864	SPA 280-1-13, 3 x 400V / 50Hz, YD,15.0kW	123	56780	Comet 10 - 12 T long	95
53865	SPA 280-13, 3 x 400V / 50Hz, YD, 18.5kW	123	56812	Reflector bulb PAR 38, 12V/100W/30°	79
53866	SPA 280-2-23, 3 x 400V / 50Hz, YD,30.0kW	123	56866	Active oxygen ADR 90	56
53913	Anemometer K	166	56870	Profinaut 21	115
53918	Water level sensor 20-4	164	56871	Profinaut 27	115
54034	Lunaqua 10	76	56872	Profinaut 40	115
54035	Halogen bulb 35 W (PU 10)	76	56873	Profimax 20000	114

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56874	Profimax 30000	114	57464	Cable transition KD 7/100 E	148
56875	Profimax 40000	114	57465	Cable transition KD 12/100 E	148
56886	InScenio FM-Profimaster	116	57466	Standpipe RA 100/500 T	138
56897	Proficlear M1	52	57467	Concrete part B 100 T	134
56898	Profilux E 100	74	57468	Plug S 70 T	134
56902	Bitron 110C	48	57469	Overflow/drain armature UA 70 / 1000 T	136
57041	BT 2.2-40-4	121	57470	Cable transition KD 4/70 T	148
57044	BT 1,5-50-4	121	57471	Concrete part B 70 T	134
57046	BT 4.0-50-4	121	57472	Vario-Switch 010a/24V	108
57048	BT 1.1-65-4	121	57473	Liner clamping flange FK 70 T KD	148
57051	BT 3.0-80-4	121	57474	Liner clamping flange FK 100 T KD	148
57052	BT 4.0-80-4	121	57475	Bacto Plus	44
57053	BT 5.5-80-4	121	57476	Ground Clear	45
57056	BT 7.5-100-4	121	57477	Phosless (PU 15)	43
57057	BT 11.0-100-4	121	57478	Bitron 550	50
57060	BT 15.0-125-4	121	57479	Aqua Air 250	36
57075	Pond Jet Floating Fountain Classic 70	63	57480	Skimmer 250	41
57083	Illumination Set Pond Jet Classic 70	62	57485	Junction Box 4/M32	152
57091	Optimax 10000	112	57486	Junction Box 8/M20	152
57092	Optimax 15000	112	58960	Clear Lake System CLS 20000	58
57093	Optimax 20000	112	58960	Clear Lake System CLS 500	58
57094	Proficlear Screendrive	52	58960	Clear Lake System CLS 5000	58
57129	Biotec 36 Screenmatic	49	70703	Halogen bulb 20 W	78
57134	Profiskim 100	40			
57141	Lunaqua 3 Solo	78			
57143	Swimpond 20	28			
57144	Swimpond 32	28			
57284	Swimpond 20 without liner relocation	28			
57285	Swimpond 32 without liner relocation	28			
57288	UWS K 300	84			
57427	Lunaqua 5.1	79			
57435	Vario-Switch 015a/24V	108			
57462	Plug S 100 T	134			
57463	Overflow/drain armature UA 100 / 1000 T	136			





## ABBREVIATIONS

A . . . . .Area	MA . . . . .Material
AF . . . . .Filter area	MBD . . . . .Minimum pool diameter
ASW . . . . .Beam angle	n . . . . .Speed
b, b1, b2, b3 . . . . .Width	O . . . . .Surface
d, d1, d2, d3 . . . . .Diameter	p . . . . .pressure
Da . . . . .Diameter external	P . . . . .Power
DAS . . . . .Nozzle delivery jet diameter	PH . . . . .Parabola height
DD . . . . .Diameter pressure connection	PH% . . . . .Parabola height in percent
DDB . . . . .Nozzle pressure requirement	PN . . . . .Nominal pressure
DDG . . . . .Nozzle diameter (greatest)	PW . . . . .Parabola width
Di . . . . .Diameter interior	Q . . . . .Flow, volume flow
DID . . . . .Nozzle injector diameter	r . . . . .Radius
DN . . . . .Nominal diameter	R . . . . .Electrical resistance
DNa . . . . .Nominal diameter output	RRW . . . . .Pipe frictional resistance
DNe . . . . .Nominal diameter input	SB . . . . .Slot width
DS . . . . .Diameter suction connection	SL . . . . .Slot length
DAW . . . . .Nozzle adjustment angle	SPB . . . . .Spray width
DSD . . . . .Nozzle spray diameter	s . . . . .Thickness
DWB . . . . .Nozzle water requirement	t . . . . .Time, time-frame, duration
E . . . . .Luminous intensity	U . . . . .Voltage
FH . . . . .Fountain height	v . . . . .Flow velocity
FL . . . . .Flange	V= . . . . .Direct current
G . . . . .Thread	w . . . . .Distance to water level
GW . . . . .Weight	x, x1, x2, x3 . . . . .Distance general
h, h1, h2, h3 . . . . .Height	z . . . . .Quantity general
H . . . . .Pump delivery head	za . . . . .Number of outlets
I . . . . .Current strength	zd . . . . .Number of nozzles
I . . . . .Light intensity	ze . . . . .Number of inlets
l, l1, l2, l3 . . . . .Length	zl . . . . .Number of holes
KD . . . . .Calyx diameter	zp . . . . .Number of pumps
KH . . . . .Calyx height	zs . . . . .Number of spotlights
LW . . . . .Clear opening	

## CONVERSION TABLES

Liter			
1,0	l (Liter)	=	0,2642 US Gal (gallon)
1,0	US Gal (gallon)	=	3,7851 l (Liter)
1,0	l (Liter)	=	0,2200 UK Gal
1,0	UK Gal	=	4,5460 l (Liter)
Liter pro minute			
1,0	l (Liter)/ min	=	15,8520 US Gph (gallons per hour)
1,0	US Gph (gallon per hour)	=	0,0631 l (Liter)/ min
1,0	l (Liter) / min	=	13,2000 UK Gph (gallons per hour)
1,0	UK Gph (gallon per hour)	=	0,0758 l (Liter) / min
Meter/Kilometer			
1,0	m (Meter)	=	3,2810 ft (feet)
1,0	ft (foot)	=	0,3048 m (Meter)
1,0	m (Meter)	=	39,3700 in. (Inch)
1,0	in. (Inch)	=	0,0254 m (Meter)
1,0	m (Meter)	=	1,0936 yd (Yard)
1,0	yd (Yard)	=	0,9144 m (Meter)
1,0	km (Kilometer)	=	0,5310 nmi (Nautic Miles (Int))
1,0	nmi (Nautic Mile (Int))	=	1,8520 km (Kilometer)
Quadratmeter			
1,0	m <sup>2</sup> (Quadratmeter)	=	10,7527 sq.ft (square feet)
1,0	sq.ft (square foot)	=	0,0930 m <sup>2</sup> (Quadratmeter)
1,0	ha = 10000 m <sup>2</sup>	=	2,4691 acres
1,0	acre	=	0,4050 ha (Hektar)
Kilogramm			
1,0	kg (Kilogramm)	=	2,2046 lb. (pound) avdp
1,0	avdo. lb.	=	0,4536 kg (Kilogramm)
Kilowatt			
1,0	kW (Kilowatt)	=	1,3410 hp (horsepower)
1,0	hp (horsepower)	=	0,7457 kW (Kilowatt)
Grad			
0,0	°C (Grad Celsius)	=	32 °F (Grad Fahrenheit)
20,0	°C (Grad Celsius)	=	68 °F (Grad Fahrenheit)
0,0	°F (Grad Fahrenheit)	=	-17,8 °C (Grad Celsius)
50,0	°F (Grad Fahrenheit)	=	10,0 °C (Grad Celsius)
<b>A</b>	<b>To compute Fahrenheit:</b>	Multiply Centigrade by 1,8 and add 32	
<b>B</b>	<b>To compute Centigrade:</b>	Subtract 32 from Fahrenheit and divide by 1,8	



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