



Pond planning & implementation: Plan correctly, right from the start

To make your garden dream a reality it needs to start with proper planning. You must take size, position and condition of the garden or the terrace into account. A few ground rules must be complied with to ensure long-term enjoyment of your very own garden pond!

Important prerequisites

Pond type: Garden ponds with fish should be constructed close to the terrace or patio for observation. If you prefer a natural pond to encourage wildlife, then use the space in your garden to your advantage. Design-orientated fountains and architectural ponds can be effectively integrated into the design of any garden.

Sunlight exposure: Four to six hours of direct sunlight per day are ideal for a pond. Extended deep water zones help prevent excessive warming of the water and algae formation in areas exposed to a lot of sunlight.

Trees and shrubbery: Deciduous trees and conifers, as well as plants that develop strong roots, should be far enough away from the pond. Root barriers offer containment possibilities for plants, such as bamboo, that develop strong, penetrating roots.

Minimum water depth: In winter to prevent the pond from completely freezing solid, OASE recommends a minimum water depth of 80 cm.

There are virtually no limits to the design possibilities of a liner pond. Before laying out the liner, a protective fleece that protects the liner from damage due to roots and small stones should always be used. Pond liner is best laid out on sunny days in warmer temperatures. Alternatively preformed ponds can be used for pond construction. The OASE Stonecor preformed ponds with natural look are easy to install.



Basic garden pond equipment includes:

- **Pond liner** (page 204) or **preformed pond** (starting on page 216)
- **Pond fleece** (page 204) to protect the pond liner
- **Pump** for operating a filter, a fountain or a watercourse (starting on page 40)
- **Filter** for biological-mechanical cleaning (starting on page 80)
- **Skimmer** for surface cleaning (starting on page 150)
- **Pond aeration** to supply the pond with oxygen (starting on page 138)



Extras

Power and water connections: Proximity of the pond to power and water connections can facilitate operation and control of the devices in and on the pond.

Hose diameter: When selecting hoses select a diameter that is as large as possible to avoid excessive friction losses.

The right pond technology: In addition to selecting the right combination of pump, filter, and UVC clarifier, the position of the pump in the pond also plays a role: A filter pump should be placed as deep as possible so that it can displace pond floor sediment. Fountain pumps are positioned closer to the surface for reduced maintenance.

Step-by-step instructions for pond construction are on the next page.

Recommendation

For selecting the right fountain pump the following applies:
 Maximum fountain height = minimum distance to the nearest edge of the pond!

To feed a higher-elevated watercourse the OASE pressure filters BioPress (page 92) and FiltoClear (page 94), as well as the matching AquaMax (from page 66) filter pump are suitable!

Rule of thumb for determining the right pump for a watercourse:
 Watercourse width (cm) x 1.5 = pump capacity in l/min.

Recommended supplemental products

Aquarius Fountain Set
 Fountain pumps set for effective water patterns (Page 48)

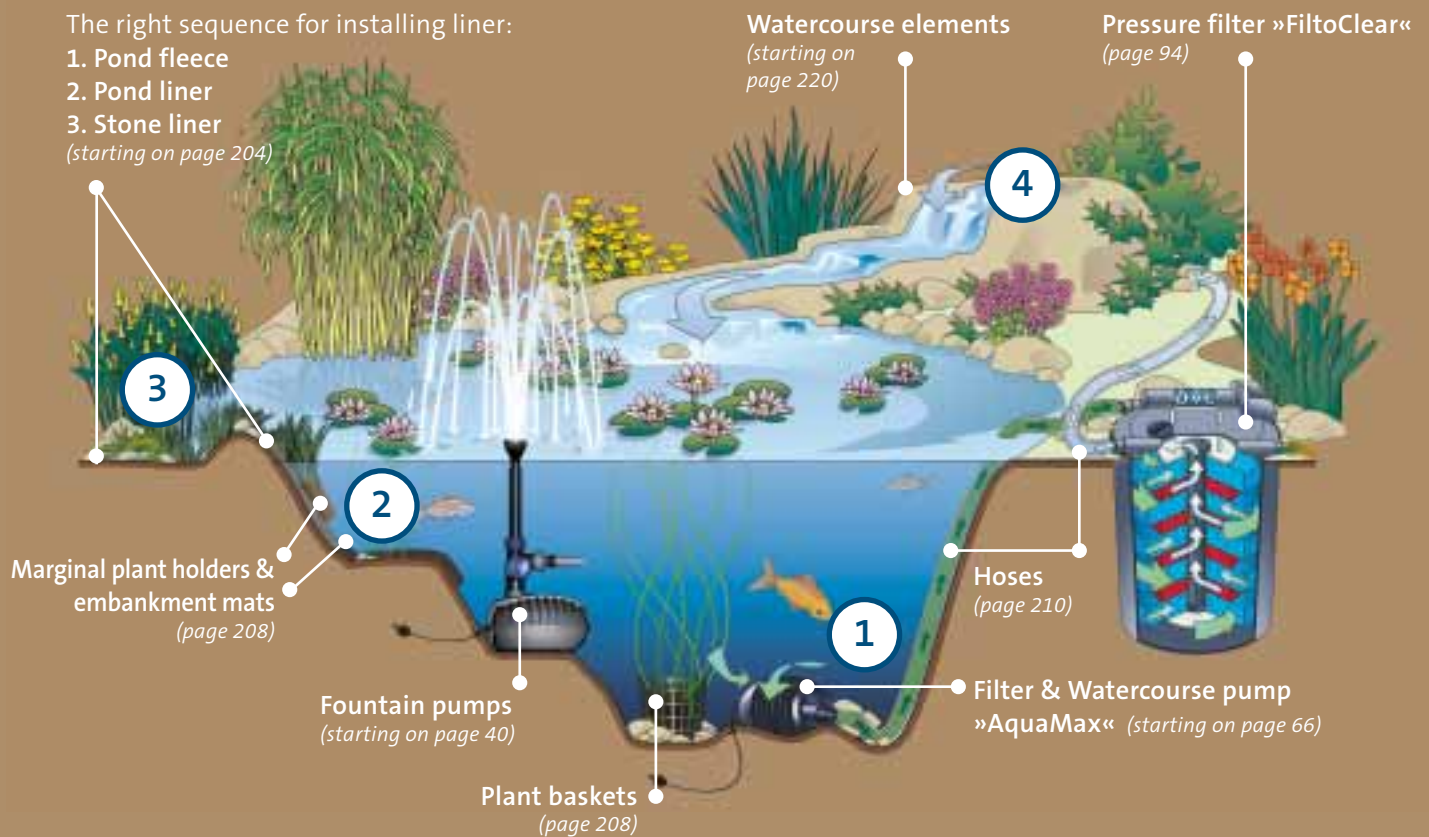


AquaMax
 Filter and Watercourse pump for feeding a pressure filter. (Starting on page 66)



FiltoClear Sets
 Pressure filter sets for supplying higher elevated watercourses. (Page 96)





EASY POND CONSTRUCTION

Step-by-step with products from OASE



1. Location

The right location for the garden pond should be half in shade; 4 – 6 hours of sun a day are ideal.



2. Pond contours

First mark out the pond contours with sand. The different deep zones should also be marked with sand.



3. Determine the dimensions of liner and fleece

Then use a cord to measure the necessary length of the fleece and the pond liner.



7. Planting on steep areas

Steeper sections are planted using marginal plant holders. Use large rocks to first weight the plant holders so that you can insert the plants.



8. Pond technology

Carefully read the instructions for installing the OASE pond technology (pumps, filters, lights) and follow these instructions precisely.



9. Gravel and water

After the gravel, at last it is time to put water in the pond: First fill the pond half-way full; completely fill the pond only after the liner has settled in place.

1

DEEP WATER ZONE

This is where the filter and watercourse pumps or possibly pond drains are placed.

2

MARSH ZONE

Offers space for plants and micro organisms and makes an important contribution to nutrient reduction in the pond. It is approx. 30 – 40 cm deep and should be laid out as wide as possible.

3

MOIST ZONE

Ideal for lush embankment plants.

4

WATERCOURSES (OPTIONAL)

When selecting the location for the watercourse, pay attention to damming stages, damming depths, as well as the overflows that are as large as possible so that additional movement and oxygen comes into the pond.

Extras

Recommendation

The movement of water through watercourses and waterfalls supplies the pond with necessary oxygen.

The topsoil you removed for the garden pond can be used to create a watercourse or waterfall.

Slopes for a watercourse should not be steeper than 40 %.



4. Fleece

After excavation, first clad the hole with fleece, to protect against root and rock penetration.



5. Liner and stone liner

Then carefully lay out the liner. Stone liner is particularly well suited for a natural-looking edge area.



6. Planting on level areas

Coconut mats are laid out for planting level areas. They provide an optimal opportunity for plants to take root.



10. Edge area décor

The final step is to fill the edge area with rock (pebbles or similar) and landscape it as you desire.



11. Lighting

For atmospheric ambiance in the evening hours we recommend considering the appropriate lighting from the outset.



That's it!

The result deserves to be seen: Living water landscapes with pond construction materials from OASE.



Extras

Liner information

PVC liner

- PVC liner is manufactured from plastic and can be welded or bonded.
- It is characterised by an outstanding price/performance ratio; minor damage, e.g. due to garden tools can be quickly and easily repaired.
- Temperatures above 10 Celsius are ideal for installation.
- PVC liner is suitable for all pond types, small reservoirs and rainwater retention basins.
- We recommend protecting the pond liner from rocks and roots through a pond fleece.
- We provide a 15-year guarantee*^G on our AlfaFol PVC pond liner.

EPDM liner

- Consists of a synthetic rubber material and is environmentally friendly.
- It is flexible, ductile, and easy to process. EPDM liner is UV-resistant and ozone-resistant.
- OaseFol EPDM is available in the standard thickness of 1.00 mm, as well as in thicknesses 1.14 mm or 1.52 mm (in container loads).
- EPDM is suitable for all pond types, small reservoirs and rainwater retention basins. We recommend protecting the liner from rocks and roots through a pond fleece.
- We provide a 20-year guarantee*^G on our OASEFol EPDM pond liner.

Calculation aid

How much liner is required for a pond?
There are two formulas for calculating liner requirements:

$Length + 2 \times depth$ (at the deepest point of the excavation) +
 $2 \times 50 \text{ cm} = \text{length of the liner}$

$Width + 2 \times depth$ (at the deepest point of the excavation) +
 $2 \times 50 \text{ cm} = \text{width of the liner}$

Recommendation

The pond liner can be damaged by strong root development, such as occurs with bamboo. Consequently ensure that strong rooting plants are always planted in the pond with root protection liner and root barrier. We recommend coordinating your planting ideas with your plant supplier beforehand.

FLEECE & LINER

Liner types and areas of implementation

Choosing Pond Liner

Constructing a pond with liner offers an infinite variety of design possibilities. The larger the pond or the more stress to which the pond is subjected, the thicker the liner should be. Single liner strips from the roll can be quickly and easily connected together with the appropriate OASE accessory (see page 203).

They are available in different versions:

Pond liner

- **OASEFol** rubber liner offers particular stretch capacity, it is particularly robust, flexible to lay out, and easy to work with.
- **AlfaFol** is a single-ply PVC liner; it is available in two thicknesses and colours.

Swim pond liners

- **SwimFol** is extremely tough and ideally suited for implementation in swim ponds.

Decorative liner

- **Stone liner** is a robust decorative liner with fleece coating that can be quickly and easily applied to the pond liner with PVC liner adhesive or UniFix+.

POND FLEECE

Pond fleece		Description							
		<ul style="list-style-type: none"> Reliably protects the pond liner against rocks and root penetration (except bamboo) Material: PET synthetic fibre 							
Item no.	Dimensions (L x W) m	Grammage g/m ²	Roll weight kg	Core length m	Core diameter mm	Colour		Material	
Protective pond fleece 200 g/m ² / 2 x 50 m	50.00 x 2.00	200	30.00	2.00	76	weiß		PET	
Protective pond fleece 400 g/m ² / 2 x 50 m		400	50.00			grau			
Protective pond fleece 500 g/m ² / 2 x 40 m	40.00 x 2.00	500				weiß			

ALFAFOL POND LINER

AlfaFol pond liner		Description								
		<ul style="list-style-type: none"> Flexible, consequently easy to use Single-ply, black UV-resistant Weld-seam resistant Rot-resistant Fish compatible Cold-resistant in accordance with DIN 53361 Regenerate and cadmium-free PVC Return guarantee for recycling and specialised disposal Integrated tape measure Material: PVC Guarantee*G: 15 years 								
Item no.	Dimensions (L x W) m	Thickness (approx.) mm	Roll weight kg	Core length m	Core diameter mm	Colour				
AlfaFol 0.5 mm	50.00 x 2.00	0.50	65.00	2.10	76	Black				
	25.00 x 4.00		95.00							
	25.00 x 6.00									
	25.00 x 8.00									
AlfaFol 1.0 mm	50.00 x 2.00	1.00	130.00							
	25.00 x 4.00		200.00							
	25.00 x 6.00		265.00							
	25.00 x 8.00		260.00							
	20.00 x 10.00		235.00							
	15.00 x 12.00									
ALFAfol special dimensions	36916		–	–	–					
AlfaFol 1.0 mm	37205	25.00 x 4.00	130.00	2.10	76	Olive-green				
	37206	25.00 x 6.00	200.00							
	37207	25.00 x 8.00	265.00							
ALFAfol special dimensions	36913	–	–	–	–	Olive-green				
Item no.	Dimensions (L x W) m	Thickness (approx.) mm	Liner sections kg	Core length m	Core diameter mm	Colour				
AlfaFol Pre-Packed 0.5 mm	2.00 x 3.00	0.50	3.54	–	–	Black				
	4.00 x 3.00		7.08	–	–					
	5.00 x 4.00		11.8	–	–					
	4.00 x 6.00		14.16	–	–					
	5.00 x 6.00		17.70	–	–					
	6.00 x 6.00		21.24	–	–					
	6.00 x 8.00		28.32	–	–					

FLEECE & LINER


OASEFOL EPDM LINER

Description							
	<ul style="list-style-type: none"> • UV-resistant • Ozone resistant • Extremely durable • Ductile and flexible • Fish-compatible and plant-compatible in accordance with WRc • Environmentally-neutral, can be recycled • Integrated tape measure • Sections to 930 m² possible • Material: Rubber • Guarantee*^{CG}: 20 years 						
OaseFol pond liner	Item no.	Dimensions (L x W) m	Thickness (approx.) mm	Roll weight kg	Core length m	Core diameter mm	Colour
OaseFol EPDM 1.0 mm	36272	20.12 x 8.02	1.00	220.00	2.15	120	Black
	50668	30.48 x 3.05		120.85			
	50669	30.48 x 3.66		145.02			
	50859	30.48 x 3.96		158.11			
	50670	60.96 x 3.96		241.40			
	50671	30.48 x 4.27		169.19			
	50672	30.48 x 4.88		193.36			
	50673	30.48 x 5.49		217.53			
	50860	30.48 x 6.10		250.00			
	50675	60.96 x 6.10		483.41			
	50676	30.48 x 7.32		290.04			
	50861	30.48 x 8.02		320.22			
	50677	60.96 x 8.02	635.56				
	50678	30.48 x 10.06	366.62				
	50679	60.96 x 10.06	796.23				
	36906	30.48 x 12.20	1.00	484.00	3.35		
	36908	60.96 x 12.20		966.82			
	36910	30.48 x 15.25		600.00			
36912	60.96 x 15.25	1210.00					
OaseFol special dimensions	36914	on request	1.02	–	–	–	
	50725	on request	1.14	–	–	–	
	50726	on request	1.52	–	–	–	
OASE would be pleased to offer you your individual special liner dimensions. Ask us, we would be pleased to advise you. In addition we would be pleased to supply all who want larger quantities with product from the container. Contact us for your individual quotation! We would be pleased to offer you our classic OaseFol 1.0 mm, as well as the thicknesses 1.14 mm and 1.52 mm (the latter only from the container) as container business.							

SWIM POND LINERS

Swim pond liners	Item no.	Dimensions (L x W) m	Thickness (approx.) mm	Roll weight kg	Core length (m)	Core diameter mm	Colour	Description
	37246	15.00 x 2.00	1.50	60.00	2.10	76	Olive-green	<ul style="list-style-type: none"> • Swim pond liners • Extremely tough • Thickness: 1.5 mm • On the roll • Roll weight: 60 kg • Special dimensions on request 37345)
SwimFol special dimensions	37345		1.50	–	–	–	–	

STONE LINER

Stone liner	Item no.	Dimensions (L x W) m	Thickness (approx.) mm	Roll weight kg	Colour	Material	Description
	36290	25.00 x 0.40	0.50	35.00	Sand	PP	<ul style="list-style-type: none"> • Robust, decorative liner with fine, genuine pebbles • Fleece coating on the underside can be bonded with PVC liner • 3 year guarantee*^{CG}
Stone liner	36291	20.00 x 0.60		45.00			
	36292	12.00 x 1.00		50.00			
	36330	12.00 x 1.20		60.00			

POND CONSTRUCTION ACCESSORIES

				
		OaseFol Bonding Adhesive 5 l	OaseFol Primer 1 l	
Dimensions (L x W x H)	mm	190 x 190 x 230	110 x 110 x 160	
Net weight	kg	3.30	0.90	
Guarantee*G	Years	1	1	
Application		Neoprene contact adhesive for OaseFol	For cleaning and surface preparation of OaseFol	
Shelf life	Months	(12 seasonal product)	(12 seasonal product)	
Item no.		50849	50850	

					
		OaseFol SeamTape	OaseFol Flashing 180 x 230 mm	OaseFol Flashing 22.3 cm x 15.25 m	FixoFol 7 cm x 6 m
Dimensions (L x W x H)	mm	30500 x 762 x 250	230 x 180 x 2	15250 x 200 x 223	6000 x 160 x 110
Net weight	kg	3.50	0.20	8.00	1.30
Guarantee*G	Years	1	1	1	1
Application		Seam joining tape for OaseFol	SOS repair tape for OaseFol		Seam joining tape for EPDM and PVC pond liner
Item no.		50714	50845	50715	57149

					
		PVC-Liner repair kit	UniFix + 290 ml cartridge	PVC liner adhesive 250 ml can	PVC liner adhesive 1000 ml can
Dimensions (L x W x H)	mm	142 x 75 x 21	220 x 50 x 220	70 x 70 x 100	120 x 120 x 185
Net weight	kg	0.50	0.50	0.30	1.10
Guarantee*G	Years	2	1	1	1
Container size		75 g	290 ml	250 ml	1000 ml
Description		High-performance underwater adhesive, fish-compatible and plant-compatible, with adapter and PVC liner piece (20 x 40 cm). Shelf life: 2 years	High-performance universal adhesive for a wide variety of liners and substrates – even bonds underwater. Shelf life: 1 year	Quick and easy, bonds all PVC liners. Shelf life: 1 year For 1 m² area	Quick and easy, bonds all PVC liners. Shelf life: 1 year For 4 m² area
Item no.		50843	57148	36861	36862



Application example: Marginal plant holders



Application example: Plant island round



Application example: Plant island round



Application example: Embankment mat

POND PLANT ACCESSORIES

EMBANKMENT MATS



Embankment mat	Item no.	Dimensions (L x W) m	Roll weight kg	Colour	Material	Description
Coconut embankment mats	53762	20.00 x 1.00	15.00	Brown	Coconut	<ul style="list-style-type: none"> • On the roll • Mesh width: 20 x 20 mm

MARGINAL PLANT HOLDERS



Marginal plant holders	Item no.	Dimensions (L x W) cm	Plant holder dimensions	Colour	Material	Description
Marginal plant holder, Jute	36296	60 x 100	20 x 50 cm	Sand	Jute	<ul style="list-style-type: none"> • Incl. 4 fastening hooks • Jute mesh with plastic fabric • PU 5

KOI PLANT ISLANDS

NEW



Plant islands	Item no.	Dimensions (L x W x H) cm	Net weight kg	Material	Colour	Description
Plant island round 45	51215	45 x 45 x 3	0.50	Plastic	Green	<ul style="list-style-type: none"> • Ideal shade and concealment possibilities for koi & other fish • Decorative element that promotes pond biology • Non-rotting, low maintenance • Incl. planting instructions
Plant island round 60	51220	60 x 60 x 3	0.80			
Plant island rectangular	51222	115 x 40 x 3	1.20			



Application example: Plant baskets textile



PLANT BASKETS



	Item no.	Dimensions (L x W x H) cm	Volume in l	Pallet content UNIT	Description
Plant basket display (filled)	53758	45 x 18 x 15		665	• Contains 665 plant baskets, note pallet content
One display pallet contains:					
Plant basket, round 13	52630	13 x 13 x 10	1	70	
Plant basket, round 22	52632	22 x 22 x 12	5	85	
Plant basket water lilies, round 40	54318	40 x 40 x 28	35	–	
Plant basket, rectangular 11	53754	11 x 11 x 11	1	75	
Plant basket, rectangular 19	52631	19 x 19 x 9	3	115	
Plant basket, rectangular 23	52633	23 x 23 x 13	7	110	
Plant basket, rectangular 28	53755	28 x 28 x 18	14	80	
Plant basket, rectangular 35	54313	35 x 35 x 26	32	70	
Plant basket, oval 45	53756	45 x 18 x 15	12	60	

PLANT BASKETS TEXTILE



	Item no.	Dimensions (L x W x H) cm	Volume in l	Contents display box UNIT	Description
Plant baskets textile					
Plant basket, textile round 15	51189	15 x 15 x 15	3	50	• Rot-resistant plant baskets of robust textile
Plant basket, textile round 25	51190	25 x 25 x 25	12	50	
Plant basket, textile rectangular 18	51191	18 x 18 x 18	6	50	
Plant basket, textile rectangular 25	51201	25 x 25 x 25	16	50	
Plant basket, textile rectangular 30	51203	30 x 30 x 30	27	50	

HOSES & CONNECTORS

SPIRAL HOSES



	Spiral hose, black					Spiral hose, green				
	¾"	1"	1 ¼"	1 ½"		¾"	1"	1 ¼"	1 ½"	2"
Diameter	mm	19	25	32	38	19	25	32	38	51
Length	m	25.00				25.00				20.00
Guarantee* ^G	Years	2				2				
Description		<ul style="list-style-type: none"> • UV-resistant • Good sinking characteristics • Temperature resistant from 15° to + 50 °C • Heavy-metal free – guaranteed • Very smooth, flow-optimised inner wall design • Pressure: 1 bar 				<ul style="list-style-type: none"> • Green with black spirals • UV-resistant • Good sinking characteristics • Temperature resistant from 15° to + 50 °C • Heavy-metal free – guaranteed • Pressure: 6 bar 				
Colour		Black				Green				
Material		PVC				PVC				
Max. operating pressure	bar	1.00				6.00				
Item no.		37175	37176	37177	37178	53470	52883	52980	52981	36500

FABRIC HOSES



	Fabric hose, black			
	½"	¾"	1"	
Diameter	mm	13	19	25
Length	m	30.00		
Guarantee* ^G	Years	2		
Description		<ul style="list-style-type: none"> • UV-resistant • Good sinking characteristics • Temperature resistant from 20° to + 60 °C • Heavy-metal free – guaranteed • Pressure: 10 bar 		
Colour		Black		
Material		PVC		
Max. operating pressure	bar	10.00		
Item no.		52731	52732	52733

SWIMFLEX



	SwimFlex		
	DA 50	DA 63	
Diameter	mm	50	63
Length	m	25.00	
Guarantee* ^G	Years	2	
Description		<ul style="list-style-type: none"> • Flexible PVC line • Extremely tough • For easy installation of pipelines in SwimPonds • Can be bonded with PVC connection fittings • On the roll • Temperature resistant from 20° to + 60 °C • Pressure: 7 bar 	
Colour		Black	
Material		PVC	
Max. operating pressure	bar	7.00	
Item no.		37288	37287

HOSE CONNECTOR



Universal hose connectors	Item no.	Hose connections	Diameter mm	Material	Description
1/2"	55362	1/2", 3/4", 1"	12	PP	• For connecting different hose diameters
1"	55361	3/4", 1", 1 1/4", 1 1/2"	25		
1 1/2"	55360	3/4", 1", 1 1/4", 1 1/2"	38		
T-piece 1 1/2"	54800	3 x 3/4", 1", 1 1/4", 1 1/2"	38	PP/ABS	

HOSE CLAMPS FOR FIXING HOSE AND ADAPTER IN PLACE



Stainless steel hose clamps	Item no.	Hose connections	Diameter mm	Material	Description
Hose clamps 1/2" – 3/4"	51206	1/2" – 3/4"	16–27	Stainless steel	• Bound in pairs • In a colourful display box
Hose clamp 1"	51207	1"	20–32		
Hose clamp 1 1/4" – 1 1/2"	51208	1 1/4" – 1 1/2"	35–50		
Hose clamp 1 1/2" – 2"	55690	1 1/2" – 2"	40–60		

LINER SHEET FOR CLEAN POND EDGES



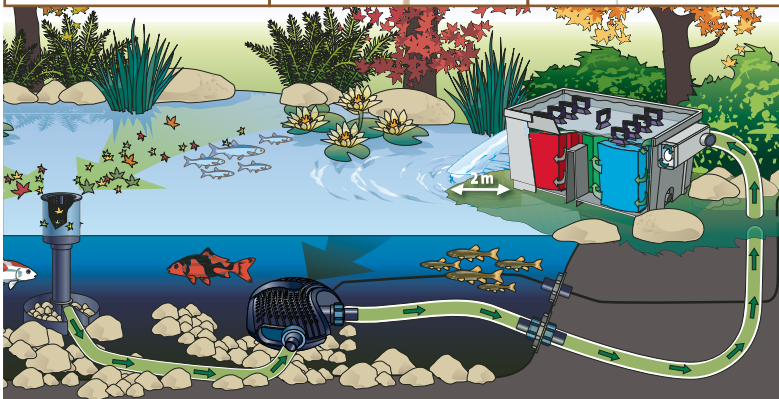
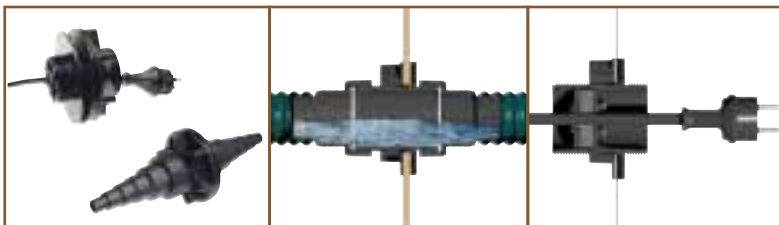
SwimPond	Item no.	Dimensions L x W	Thickness mm	Material	Base price €	Description
SwimPond liner sheet	37249	2.00 m x 0.10 m	1.2	Steel/PVC	7.00	<ul style="list-style-type: none"> • Sheet metal coated on one side with PVC liner • The liner is thermally welded to the sheet and forms a solid composite • Sheet metal thickness: 0.6 mm • Liner thickness: 0.6 mm

LINER CONNECTIONS AND TRANSITIONS



SwimFol	Item no.	Execution	Diameter mm	Description
Liner connection DN 50	37252	Single-side sleeve and liner sheeting	50	<ul style="list-style-type: none"> • Adhesive pipe unions with liner sleeve • For sealing with the liner • High load-bearing capacity
Liner transition DN 50	37254	Dual-side sleeve and liner sheeting	50	
Liner transition DN 63	37255	Dual-side sleeve and liner sheeting	63	
KG liner transition DN 100	37256	Liner flange including pipe section with sleeve	100	

WALL AND LINER TRANSITION TRADUX



		Tradux
Dimensions (Ø x H)	mm	115 x 335
Guarantee*G	Years	2
Connections, inlet		3/4", 1", 1 1/4", 1 1/2", 2"
Cable cross section	mm²	3,00 – 9,00
Material		Plastic
Description		<ul style="list-style-type: none"> • Suitable for pond liner, PE basins, GRP or Stonecor preformed ponds • Easy installation due to handy screw connections • For either cable or water, to do both, 2 units are required
Item no.		57154

PUMP ACCESSORIES

WATER DISTRIBUTORS



	Water distributors			Flow regulator	Y-distributor
	Multi WD ½"	Multi WD ¾"	Multi WD 1"	1 ½"	1 ½"
Number of inlets	1	1	1	1	1
Quantity outlets	3	3	3	1	2
Connections, inlet	1 ½" thread and stepped hose adapter ¾" – 2"			½" thread and stepped hose adapter 1" – 1 ½"	2" thread and stepped hose adapter ¾" – 2"
Connections, outlet	½"	¾"	1"	½" thread and stepped hose adapter 1" – 1 ½"	1 ½" with stepped hose adapter 1" – 1 ½"
Description	For optimal interaction between pump, hoses, and water outlet. With double distributor function: Use the included sealing cap to completely seal one of the three distributor openings if necessary. Each inlet has 1" external thread or ½" internal thread.			For adjustment of water flow rates with 2 stepped hose adapters 1" – ½"	Water distributor with 1 inlet and 2 outlets. Both outlets are individually adjustable. Not suitable for dry installation
Item no.	37101	37158	37159	56630	56668

SPARE PARTS CASE



Spare parts case	
O-ring PN 48 x 4 SH75	40 units
O-ring NBR 330 x 8 SH40	5 units
Flat seal NBR 40 for discharge 70	20 units
O-ring Viton 32 x 4 SH70	40 units
Stepped hose adapter Biotec off. m. thread	5 units
Flat seal NBR 60 x 47 x 3 SH40	40 units
Stepped hose adapter 1 ½" black	10 units
Stepped hose adapter 1 ½" black	10 units
Threaded collar 1 ½"	5 units
Flat seal adapter 1 ½"	40 units
Stepped hose adapter 2"	10 units
Threaded collar 2"	5 units
Flat seal adapter 2" D = 56.3 x 3	40 units
Item no.	57239

EXTENSIONS



	Telescopic nozzle extension	
	TE 5 K	TE 10 K
Connection	½"	1"
Length mm	200 – 300	280 – 510
Description	<ul style="list-style-type: none"> • For extending the fountain attachment • For fountain attachments with ½" thread (TE 5 K) • For fountain attachments with 1" thread (TE 10 K) 	
Item no.	54277	52270

REPLACEMENT BULBS UVC

	Item no.	Bitron C 9 W	Bitron C 11 W	Bitron 15	Bitron C 18 W	Bitron C 24 W	Bitron 25	Bitron C 36 W	Bitron C 55 W	Bitron C 72 W	Bitron C 110 W	FiltoClear 3000	FiltoClear 6000	FiltoClear 11000	FiltoClear 12000	FiltoClear 15000	FiltoClear 16000	FiltoClear 20000	FiltoClear 30000	Filtral UVC 2500	Filtral UVC 5000	FiltoMatic CWS 3000/7000	FiltoMatic CWS 6000	FiltoMatic CWS 12000 / 14000/25000	BioPress 4000	BioPress 6000	BioPress 10000	BioSmart UVC 16000		
Replacement bulb UVC 5 W	57110																													
Replacement bulb UVC 7 W	57111																													
Replacement bulb UVC 9 W	54984	•										•																		
Replacement bulb UVC 11 W	56112		•										•	•		•						•	•						•	•
Replacement bulb UVC 15 W	53770			•																										
Replacement bulb UVC 18 W	56236				•										•										•					
Replacement bulb UVC 24 W	56237					•											•								•					
Replacement bulb UVC 25 W	53969						•																							
Replacement bulb UVC 36 W	55432							•		•								•												
Replacement bulb UVC 55 W	56636								•		•									•										



REPLACEMENT FILTER SETS / REPLACEMENT FOAM SETS / REPLACEMENT FOAMS



Filters	Item no.	Description			
Underwater filters					
Filtral UVC 2500	13705	Replacement filter set			
Filtral UVC 5000	35836	Replacement filter set			
Pressure filters					
BioPress Set 4000	15558	Replacement Foam Set			
BioPress Set 6000 / 8000	15564	Replacement Foam Set			
BioPress Set 10000 / 12000	15564	Replacement Foam Set			
FiltoClear 3000	56109	Replacement Foam Set			
FiltoClear 6000	56110	Replacement Foam Set			
FiltoClear 11000	56111	Replacement Foam Set			
FiltoClear 12000	51255	Replacement Foam Set			
FiltoClear 15000	56884	Replacement Foam Set			
FiltoClear 16000	51258	Replacement Foam Set			
FiltoClear 20000 / 30000	51290	Replacement Foam Set			
Flow-through filters					
BioSmart 5000 / 7000 / 8000	35791	Replacement foam red			
BioSmart 5000 / 7000 / 8000	35792	Replacement foam blue			
BioSmart 14000 / 16000	35791	Replacement foam red			
BioSmart 14000 / 16000	35792	Replacement foam blue			
BioSmart 30000 / BioTec 10.1	56677	Replacement foam red			
BioSmart 30000 / BioTec 10.1	56678	Replacement foam blue			
BioSmart 30000 / BioTec 10.1	56679	Replacement foam green			
BioTec ScreenMatic 12	56738	Replacement foam blue			
BioTec ScreenMatic 12	56739	Replacement foam red			
BioTec ScreenMatic 18 / 36	56736	Replacement foam red			
BioTec ScreenMatic 18 / 36	56737	Replacement foam blue			
BioTec 5 / 10 / 30	54030	Replacement foam red			
BioTec 5 / 10 / 30	54031	Replacement foam blue			
BioTec 5.1	56677	Replacement foam red			
BioTec 5.1	56678	Replacement foam blue			
BioTec 5.1	56679	Replacement foam green			
FiltoMatic CWS 3000 / 7000	50901	Filter cartridge set			
FiltoMatic CWS 6000, 12000 / 14000, 25000	50904	Filter cartridge set			
Module filters					
ProfiClear filter foam module	26983	Replacement foam blue, wide			
ProfiClear filter foam module	26984	Replacement foam blue, narrow			
ProfiClear filter foam module	27295	Replacement foam red			
ProfiClear phosphate binder module	27296	Replacement foam black, narrow			
ProfiClear phosphate binder module	27297	Replacement foam black, wide			

Extras

**Recommendation**

Fluctuations in the water level can be optimally compensated with an automatic water top up system. Thanks to a conductive sensor, ProfiClear Guard ensures trouble-free level detection and is available as a complete set, incl. ½" solenoid valve.

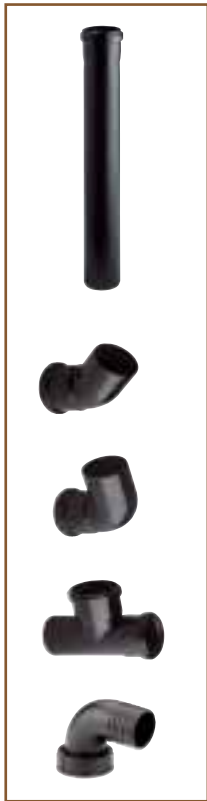
PROFICLEAR ACCESSORIES

	Bottom drain	Item no.	Diameter mm	Guarantee*G years	Connection	Description
	BD 100	37143	380	3	DN 100 (inner diameter 110)	<ul style="list-style-type: none"> For secure connection of pond and ProfiClear modules Is flanged or bonded to liner
	ProfiClear Screendrive	Item no.	Rated voltage (primary, secondary)	Power consumption W	Power cable length m	Description
	Automatic cleaning	57094	230 V / 50 Hz, 12 V	10	7.00	<ul style="list-style-type: none"> Performs regular and automatic cleaning of the coarse debris separator in the ProfiClear module M 2
	ProfiClear Guard	Item no.	Dimensions (L x W x H) mm	Rated voltage	Connection	Description
	Automatic water replenishment system	50951	120 x 55 x 111	230 V / 50 / 60 Hz	½"	<ul style="list-style-type: none"> Servo-controlled solenoid valve, 230 V, brass Measurement principle conductive (2 measure points) Power consumption 3 W Power cable length 2.00 m Cable length sensor 20.00 m Cable length valve 3.00 m Switching differential 20 mm

HALOGEN ILLUMINANT

	Item no.	Power consumption W	Rated voltage (V)	Description
	5 watt	52662	5	<ul style="list-style-type: none"> Underwater and above-water implementation
	20 watt	70703	20	
	35 watt	54035	35	
	50 watt	54036	50	
	75 watt	54037	75	
			12	<ul style="list-style-type: none"> Can only be implemented underwater

DISCHARGE / DISCHARGE EXTENSIONS / CONNECTION ELBOW



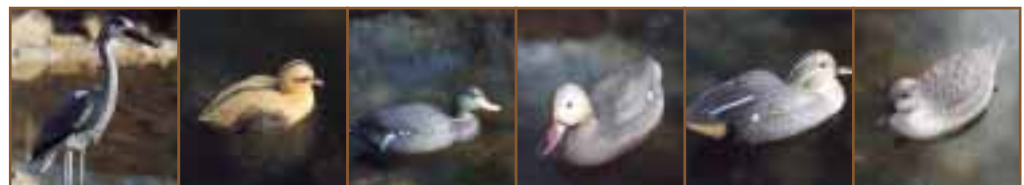
	Item no.	Diameter mm	Length mm	Tilt angle°		
Discharge pipe DN 40 / 480 mm	50307	40	480	–		
Discharge pipe DN 50 / 480 mm	50829	50		–		
Discharge pipe DN 75 / 480 mm	55043	70		–		
Discharge pipe DN 110 / 480 mm	50427	105		–		
Connection elbow DN 40 / 45°	50308	40	–	45		
Connection elbow DN 50 / 45°	50833	50	–			
Connection elbow DN 75 / 45°	55044	70	–			
Connection elbow DN 110 / 45°	50430	105	–			
Connection elbow DN 75 / 87°	55045	70	–	87		
T-piece DN 75	55046	70	–	–		
Connection elbow 2" / 90° (for Bitron C 36 W – 110 W)	50540	2"	–	90		

WATER SPOUTS



		Fish	Frog	Duck	Turtle
Dimensions (L x W x H)	mm	240 x 130 x 155	250 x 190 x 100	290 x 150 x 190	230 x 170 x 125
Description	<ul style="list-style-type: none"> Made of weather-resistant polyresin Supplemental oxygen supply for your pond 13 mm brass hose connection 				
Item no.		36777	36774	36775	36778

POND FIGURES



		Heron	Duckling	Mallard duck drake	Mallard duck female	Teal drake	Teal female
Dimensions (L x W x H)	mm	500 x 170 x 760	130 x 70 x 75	400 x 150 x 170		260 x 115 x 105	
Description	<ul style="list-style-type: none"> Lifelike decoys The heron model is an effective protection against raiding herons 						
Item no.		36868	36863	36864	36865	36866	36867



PREFORMED PONDS PE

					
		Preformed pond PE 380 x 750 x 450 mm	Preformed pond PE 750 x 750 x 450 mm	Preformed pond PE 1150 x 750 x 450 mm	Preformed pond PE 1150 x 1550 x 450 mm
Dimensions (L x W x H)	m	0.38 x 0.75 x 0.45	0.75 x 0.75 x 0.45	1.15 x 0.75 x 0.45	1.15 x 1.55 x 0.45
Net weight	kg	2.00	4.50	7.00	14.00
Guarantee* ^G	years	15			
Volume in l	l	80	180	280	600
Description	<ul style="list-style-type: none"> • Robust HDPE pool • Modern, rectangular design • High-strength walls • Stable edge (45 cm high) • Installation only recessed in the ground For above-ground installation a stabilising frame must be used				
Item no.		50758	50759	50760	50761

						
		Preformed pond PE 150	Preformed pond PE 250	Preformed pond PE 500	Preformed pond PE 750	Preformed pond PE 1000
Dimensions (L x W x H)	m	1.20 x 0.80 x 0.45	1.35 x 0.92 x 0.54	1.78 x 1.26 x 0.56	2.10 x 1.40 x 0.60	2.40 x 1.40 x 0.62
Net weight	kg	2.50	3.60	8.80	17.10	19.00
Guarantee* ^G	years	15				
Volume in l	l	150	250	500	750	1000
Description	<ul style="list-style-type: none"> • Preformed plastic ponds for pond sizes up to 1 m³ • Fast and easy planting due to marsh zones and plant zones already integrated in the preformed pond • Easy installation of pumps 					
Item no.		36790	36767	36768	36769	36770

Extras

Top 3 product characteristics

- Natural design of well-known lakes
- Extremely robust, long service life
- Easy installation with preformed pond zones

Recommendation

Plants in and on the pond not only look nice, but they also offer their own contribution to maintaining the biological balance. Speak with your OASE dealer about optimal planting.

PREFORMED PONDS STONECOR

Easy to mistake for nature

- Incomparable material: Durable, abrasion resistant, impact resistant, as well as weather-resistant; made of linear high-pressure polyethylene LLD-PE
- Grained surface offers ideal conditions for settlement of pond biology
- Perfectly matches nature in form and material
- Unique design – topographically based on the most beautiful lakes in the world
- High inherent stability
- Uniform density of material in the entire preformed pond
- Frost-proof
- Environmentally friendly
- 100 % recyclable
- 15 year guarantee*^G

The deep zones

	Small pond T 60–93 cm	Large pond T 100–110 cm
1	10 cm	12 cm
2	20 cm	25 cm
3	35 cm	35 cm
4	60 cm	80 cm
5	83 cm	110 cm

TECHNICAL DATA

		Preformed pond Aral Sea		Preformed pond Lake Constance		Preformed pond Chiemsee		Preformed pond Lake Titicaca	
		Sand	Basalt	Sand	Basalt	Sand	Basalt	Sand	Basalt
Dimensions (L x W x H)	m	2.30 x 1.83 x 0.87		2.82 x 1.72 x 0.96		2.70 x 2.17 x 1.17		3.04 x 2.30 x 1.17	
Net weight	kg	68.00		86.00		115.00		144.00	
Guarantee* ^G	Years	15							
Volume in l	l	1000		1300		2000		2500	
Colour		Sand	Basalt	Sand	Basalt	Sand	Basalt	Sand	Basalt
Item no.		36994	36995	36998	36999	37002	37003	36988	36989

PLANT TABLE

	Wild calla lily	Creeping Jenny	Watercress	Monkey flower	Hanging sedge	Northern bearded sedge	Marsh marigold	Marsh fern	Swamp spurge	Water forget-me-not	Small broad-leafed cat-tail	March gentian	Meadow sweet	Tall bearded iris	Water horsetail	Hemp agrimony	Firecandle	Bogbean	Water plantain	Branched bur weed	Sweet flag	Cattail	Mare's tail	Watermint	Arrow head
Bank zone	•	•	•	•	•	•	•	•	•	•															
1 10 – 12 cm				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 20 – 25 cm										•							•	•	•	•	•	•	•	•	•
3 35 cm																									•
4 60 – 80 cm																									
5 83 – 110 cm																									
Floating plants																									

Our Stonecor® preformed ponds offer a lot of living space for a wide variety of plant life with their pronounced deep zones – planting is easy with this table.

INSTALL IT YOURSELF

Easy step-by-step!



1. Location

The ideal pond location is away from deciduous trees and conifers and enjoys approximately 4 – 6 hours of sunlight daily.



2. Tools

For installation you require: Spade, shovel, filler sand, level, yardstick, and a garden hose with water connection.



3. Marking

First, position the preformed pond in the desired location, then mark the contours with sand.



7. Fill-in

Adjust the different depths with filler sand until the finished excavation looks like this.



8. Levelling

The preformed pond is inserted and levelled out in length and width. Then fill with water to approximately 1/3 of the total volume.



9. Backfilling

All around the perimeter wet sand is backfilled under the edge of the preformed pond to fill any cavities.



Extras

Tips for correct watercourse calculation

- Use the pump performance curve to identify the required pump capacity (page 228). To deliver the desired water quantity from the pump to the source of the watercourse, minimum hose diameters are required, e.g. to 20 l/min = 1" or from 50 l/min 1 ½", etc.
- In addition, it is important for the watercourse to pay attention to the pressure loss of the water supply line. Generally this is considered with 0.4 mWc.

Here is a rule of thumb for determining the right pump for a watercourse:

Width of watercourse in cm x 1.5 l/min. = capacity l/min.

WATERCOURSE ELEMENTS

The classics for custom watercourses

- Near-natural elements fit perfectly in the environment
- 3 different elements for individual routes of the watercourse
- Long service life, robust GRP material

TECHNICAL DATA

				
		Watercourse element GRP Straight	Watercourse element GRP Left curve	Watercourse element GRP Right curve
Dimensions (L x W x H)	mm	860 x 420 x 110	680 x 600 x 110	
Net weight	kg	2.15	2.25	2.05
Guarantee*G	Years	2		
Max. flow rate	l/h	3000		
Item no.		36771	36772	36773



Extras

Top 3 product characteristics

- Natural sandstone look
- Robust, weather-resistant polyresin material
- Can be used modularly

Recommendation





Watercourse elements are outstanding for enabling creation of a flowing body of water with a natural effect in the garden. Each element can be used as a spring: Simply bore at the right point – that's it!

WATERCOURSE ELEMENTS

Near natural and variable

- Elements are fitted with 1 ¼" thread, plug, and stepped hose adapter
- Natural sandstone look
- Each element can be used as a spring
- Can be used modularly

TECHNICAL DATA

					
		Watercourse element, sand Spring	Watercourse element, sand Straight	Watercourse element, sand Left curve	Watercourse element, sand Right curve
Dimensions (L x W x H)	mm	600 x 470 x 180	750 x 470 x 180	750 x 500 x 180	
Net weight	kg	3.04	3.26	3.34	2.64
Guarantee* ^G	Years	2			
Max. flow rate	l/h	1500			
Item no.		50416	50413	50414	50415



Extras

Top 3 product characteristics

- Natural sandstone look
- Robust and weather-resistant
- Convenient maintenance of the pond technology is possible

DECORATIVE ROCK COVERS

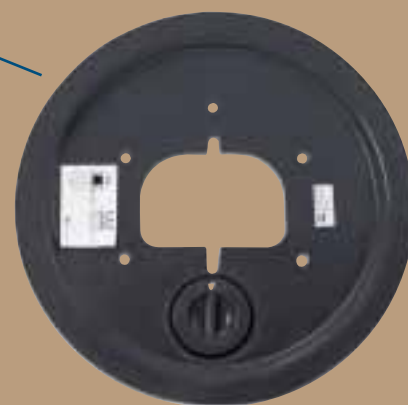
Splash guard in natural stone look

- Made of weather-resistant, robust material
- Custom-tailored for the OASE products FiltoMatic CWS, BioPress, FiltoClear, as well as InScenio FM-Master
- Natural sandstone look that can be optimally integrated in the pond landscape
- Perfect match for the new sand-coloured pre-formed watercourses (page 221)

TECHNICAL DATA



	FiltoMatic Cap CWS		FiltoCap sand	InScenio Rock
	Size L	Size XL		
Dimensions (L x W x H)	mm 450 x 450 x 350	450 x 650 x 350	570 x 570 x 350	300 x 300 x 400
Net weight	kg 4.60	5.26	2.84	2.32
Guarantee*G				
For covering	FiltoMatic 7000, FiltoMatic 14000	FiltoMatic 25000	FiltoClear 3000–30000 (all sizes)	AquaOxy CWS 4800, InScenio
Colour	Stone-grey		Sand	
Item no.	50268	50269	50420	50417



WATER RESERVOIRS

4	Water reservoir covers					Description
	WR-T 60	WR-T 80	WR-T 100	WR-T 125	Trio/Quintett	
Suitable for water reservoir	WR 60	WR 80	WR 100	WR 125	WR 100	<ul style="list-style-type: none"> • GRP • Load-optimised composite of both pond components • Centred openings for hose passage • Service opening with cover (except T 60) • A groove has been incorporated for proper cable routing • 10 year guarantee**G
Service opening with cover	No	Yes				
Load capacity	kg 300					
Colour	Stone-grey					
Item no.	37115	37116	37117	37118	50327	
3	Sealing sleeve TT ½"		Sealing sleeve TT ¾"		Description	
Dimensions (Ø x H)	mm 40 x 38		45 x 39		<ul style="list-style-type: none"> • Prevent escaping water from flowing back into the bore of bubbling stones • Made of EDPM (rubber) • Silicon sealing is not necessary • Simply fitted over the hose 	
Connection for hoses	½"		¾"			
For water column	m 6.00		9.00			
Item no.	37122		37123			
2	Support element U-base				Description	
Dimensions	mm 365 x 385 x 360				<ul style="list-style-type: none"> • GRP • Open form for simple handling of pump, water distributors, and hoses • Can be used from water reservoir WR 80 	
Load capacity	kg 700					
Item no.	37234					
1	Water reservoir				Description	
	WR 60	WR 80	WR 100	WR 125	<ul style="list-style-type: none"> • LLD-PE for bubbling stones and watercourses • Manufactured in a state-of-the-art rotation process and meets the most rigorous requirements • Weather resistant against heat and frost • Resistant to roots • Optimal distribution of edge load and material tensions • 10 year guarantee**G 	
Dimensions (Ø x H)	mm 600 x 400	800 x 406	1000 x 406	1250 x 406		
Volume	l 66	137	210	340		
Max. edge width	mm 80					
Item no.	37110	37111	37112	37113		

WORTH KNOWING

Additional information

- 226 OASE Clear Water Guarantee
- 227 OASE Guarantee
- 228 Pump characteristic curves – overview
- 230 Watercourse diagrams
- 232 Pictograms / icons
- 240 Notes

ADDITIONAL INFORMATION: SO THAT YOU CAN ENJOY YOUR GARDEN

On the following pages you will find important supplemental information.

Read all about our Clear Water Guarantee and the associated tips on improving the visual depth and water quality. And our detailed pump and watercourse diagrams will help you select the best product.



*»For me there are no
unanswered questions!«*



Our OASE Service

On the **OASE website** you will find everything about our products, much inspiration, downloads, pond construction tips, answers to frequently asked questions, current topics and much more!

www.oase-livingwater.com
www.oase-gardenworlds.com



CLEAR WATER GUARANTEE

*C

Clear Water Guarantee conditions from OASE:

OASE guarantees clear water in the pond to all purchasers of an OASE filter system designated with the “*C” suffix, based on proper system use in accordance with the selection table, if the system is set up properly in accordance with the set up instructions/and in compliance with the instructions in the operating manual, and in compliance with the achievement of clear water through the addition of OASE Filter Starter bacteria as defined in the instructions.

Clear water means that fish, plants, or rocks on the pond floor are recognizable to a pond depth of 1 m below the pond surface. Ponds with string algae are not considered to be unclear, as scarcely any suspended substances are formed. Pond water is not tap water. Turbidity and colouration are always present and are also natural, and these conditions exclude a guarantee case.

The Clear Water Guarantee is granted exclusively for ponds in the conventional sense of the term. A pond is an artificially created body of water made of liner or a preformed pond, with minimum planting of 1/3 of the water surface and is exposed to sunlight for 4 to 6 hours a day. The location of the pond is 4 m away from deciduous trees and/or conifers.

For the first use and every new use in the spring, the application of OASE filter starter bacteria is prerequisite. It can take up to 6 weeks until the pond is clear, depending on the burden of the pond. The filter works mechanically and biologically. Settlement of microorganisms is required for biological cleaning. Consequently the clear water guarantee assumes that the pump, and thus the filter system, is in 24 hour operation during the pond season (approximately from March to September). Too much cleaning prevents adequate formation of microorganisms in the filter foam. If not cleaned regularly enough the filter foams cannot absorb any more pollutants. Only if the flow rate is significantly reduced.

The guarantee applies for the period of unlimited operational use in accordance with the provisions of the OASE use instructions, which however is a maximum of 3 years from the date of purchase from the OASE stockist (first purchase, not resale of the new product). A directory of OASE stockists is available at www.oase-livingwater.com.

The Clear Water Guarantee is obtained by registering with OASE within 3 months from the initial purchase date. Registration is executed by sending the registration card to OASE together with a copy of the purchase receipt (date/stockist name) or alternatively via the Internet (www.livingwater.com).

Prior to submitting a guarantee claim the customer is obligated to report the deficiencies determined on the OASE Service Hotline (see below). After logging the fault, OASE will provide assistance for correction of the fault. If help cannot be provided on-site or if the help does not bring the desired success, the customer must then inform the Hotline specified above of this situation. If OASE cannot suggest any other remedy possibility that should be particularly attempted, the customer has a claim for processing of the guarantee through the stockist, if in all other aspects the stockist affirms/determines that prerequisites of the guarantee are satisfied. Otherwise the stockist has a last opportunity to attempt to implement the consulting. In the case of a guarantee claim the stockist refunds the purchase price to the customer, against submission of the original purchase receipt, if OASE has previously accepted the guarantee claim. More extensive claims arising from the Clear Water Guarantee do not exist.

The legal guarantee rights of the purchaser remain unaffected through the Clear Water Guarantee.

The guarantee is invalidated if the installation instructions in the operating instructions are not complied with, and/or in the case of wrong system selection or if pond care products from other manufacturers are used, particularly if pond care products containing copper are used or if the customer's behaviour otherwise is in violation of the customer's obligations.

Other frequent causes for unclear water

- Failure to replace parts subject to wear, e. g. UVC bulbs or filter foams
- The height difference between the water surface and the highest point in the pressure system is greater than 1 m (assumed value in the OASE selection tables)
- Pressure losses due to excessive hose lengths or a hose diameter that is too narrow
- Missing inlet barrier (capillary barrier). Surface water flushes mud and/or fertiliser (nitrogen, lawn fertiliser etc.) into the pond from the garden
- Over-intensive feeding of fish generates nutrient loads in the pond
- Incorrect placement of the pond results in imbalance (e. g. excessive sun, excessive shade)
- Faulty mixing of the pond water, i.e. deficient circulation

GUARANTEE

*G Guarantee

For the device designated with the “*G” suffix, OASE GmbH grants a manufacturer’s guarantee under the conditions cited below; the guarantee period is designated on product-specific basis. It is provided in the form of supplemental text with the product.

The designated guarantee period starts with the first-time new product purchase from an OASE stockist. In the event of subsequent sale the guarantee period does not start over again from the beginning. The guarantee period is neither extended nor restarted through guarantee performances.

If the content of the guarantee is not otherwise specified separately, OASE grants a guarantee in the scope of the legal guarantee performance. Defects or damage that are due to faulty installation or operating errors, as well as insufficient care, or for example, due to the use of unsuitable cleaning agents or omitted maintenance, non-intended use, damage, impact, the effects of freezing, etc. cutting off the plug, shortening the cable, calcium deposits or improper repair attempts, do not fall under the protection of the guarantee. With regard to intended use we refer you to the use instructions, compliance with which is the basic prerequisite for a guarantee claim. Parts subject to wear : Bulbs are expressly not part of the guarantees. See the use instructions of the respective product for the wear parts.

We provide guarantee performances at our discretion, through no-charge repair or no-charge delivery of spare

parts or of a replacement device of comparable value. If the type in question is no longer manufactured, we reserve the right, at our discretion to deliver a replacement device from our product line that most nearly approaches the type that is the object of the guarantee claim.

Reimbursement of expenses for removal and installation, inspection, claims for lost profit and compensation for damages are not covered by the guarantee, nor are more extensive claims for damages and losses, regardless of type, that have been caused by the device or its use.

The guarantee only applies for the country in which the product was purchased from an OASE stockist. German law applies for this guarantee; with exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG).

The legal rights of the purchaser, particularly from the warranty, continue in effect and are not limited by this guarantee.

If there is a guarantee case please contact your OASE stockist that sold the product to you. If this possibility does not exist, claims arising from the guarantee can also be made binding directly against OASE GmbH & Co. KG Tecklenburger Strasse 161, 48477 Hörstel, Germany, by shipping the device or the parts in question with the original to us at your expense with the purchase receipt of the OASE stockist, the guarantee certificate, as well as written information about the claimed defect.

A directory of OASE stockists is available at www.oase-livingwater.com.

FRICITION LOSS IN PIPELINES AND HOSE LINES:

Flow rate (liter/min.)	Clear widths (mm/inch)	Pressure loss per running meter (m/water column)
30 50	20 mm – ¾"	0,12 mWS 0,32 mWS
50 75 100	25 mm – 1"	0,08 mWS 0,19 mWS 0,34 mWS
100 150	32 mm – 1¼"	0,11 mWS 0,21 mWS
100 150 200 250	40 mm – 1½"	0,03 mWS 0,07 mWS 0,12 mWS 0,15 mWS
200 250 300 350 400 450	50 mm – 2"	0,04 mWS 0,06 mWS 0,08 mWS 0,10 mWS 0,14 mWS 0,17 mWS

To get the most out of the pump, select the largest hose diameter possible.

Inadequate hose diameters or angled hose joints and flow-through obstructions through hose connections impact the flow-rate!

PUMP PERFORMANCE CURVES

What is the pump performance curve used for?

The pump performance curve, also referred to as performance data, helps you in correctly advising customers. It shows the relationship between the flow-rate (Q) and the delivery head (H) of a pump.

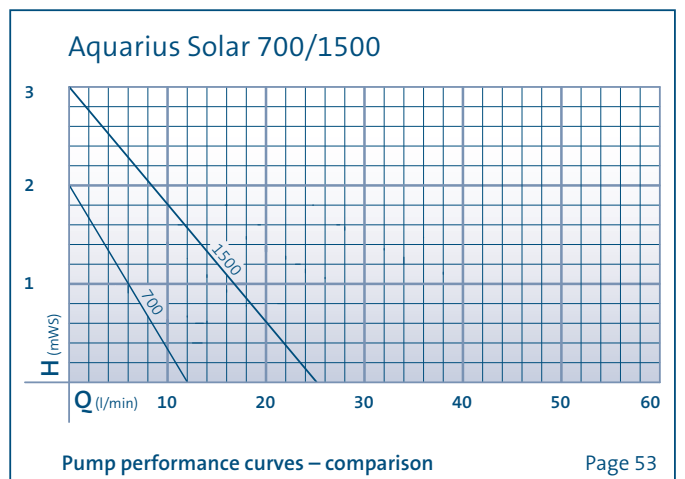
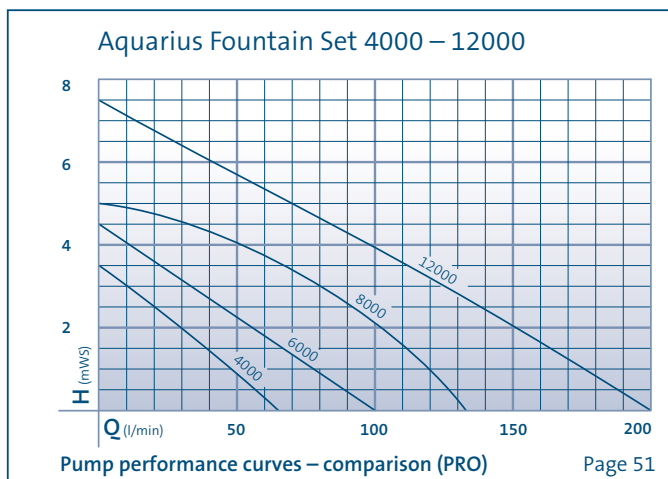
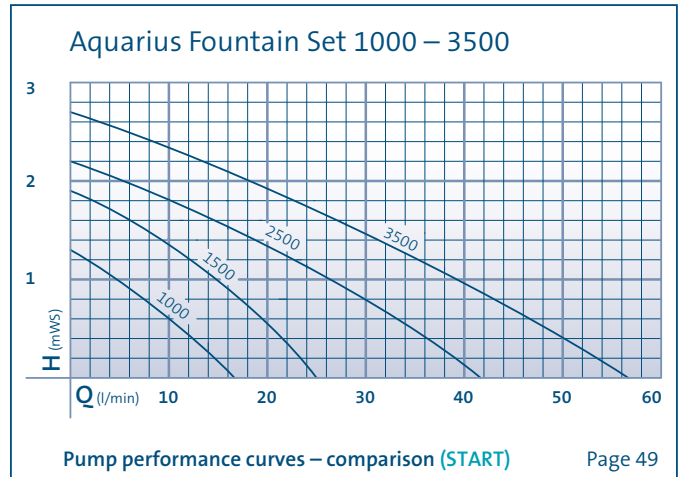
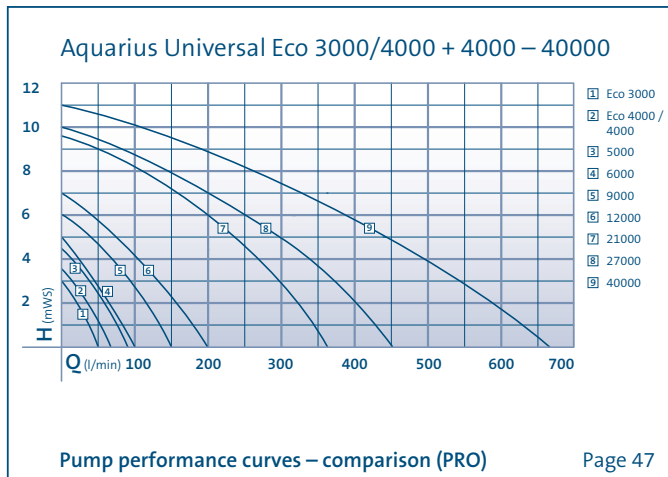
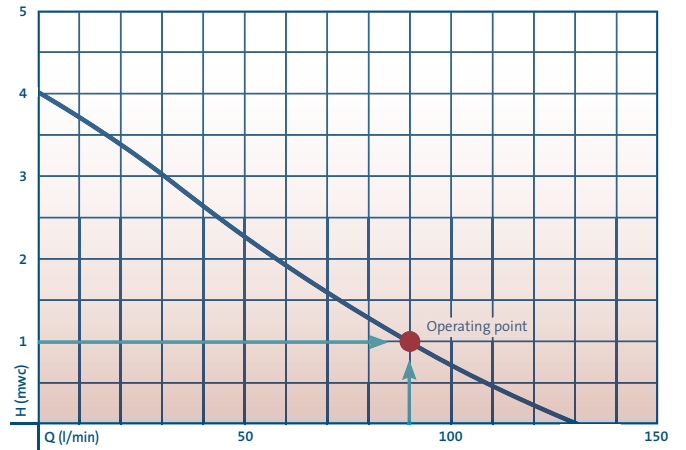
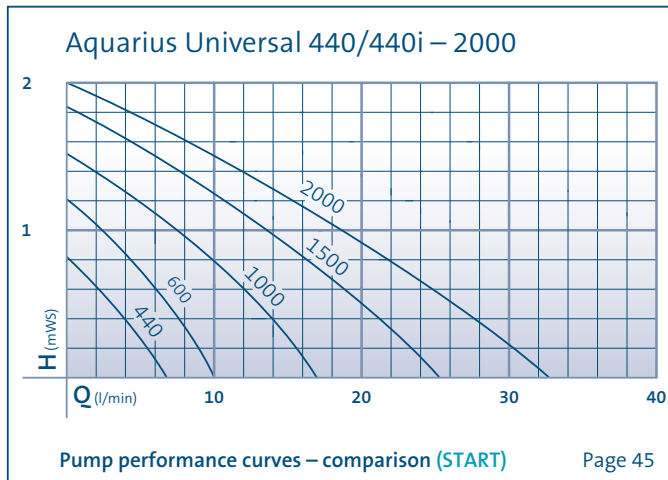
Determining the operating point (example)

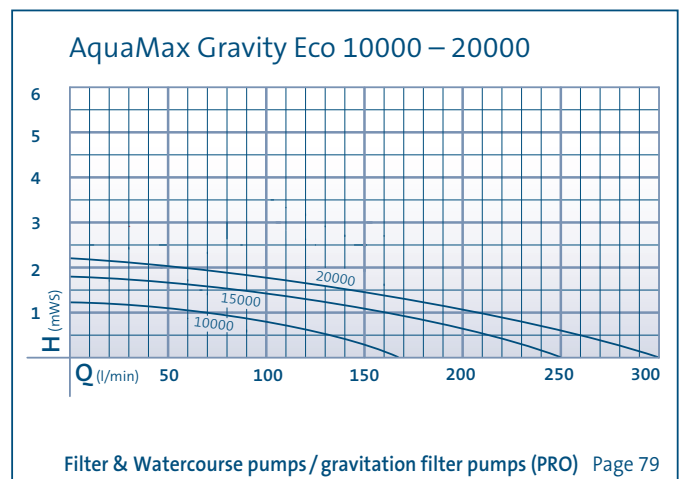
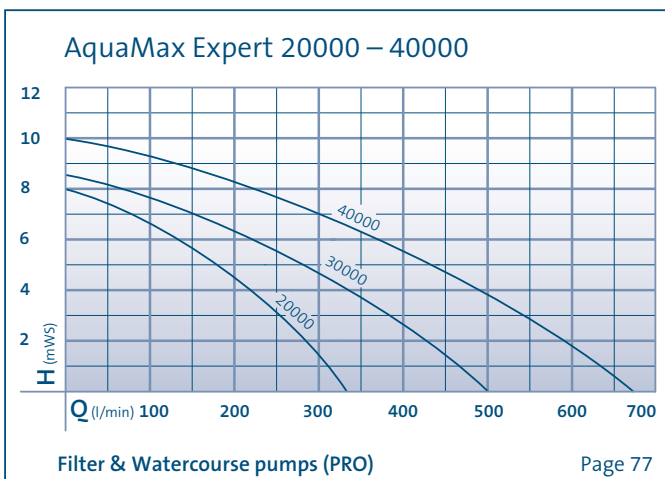
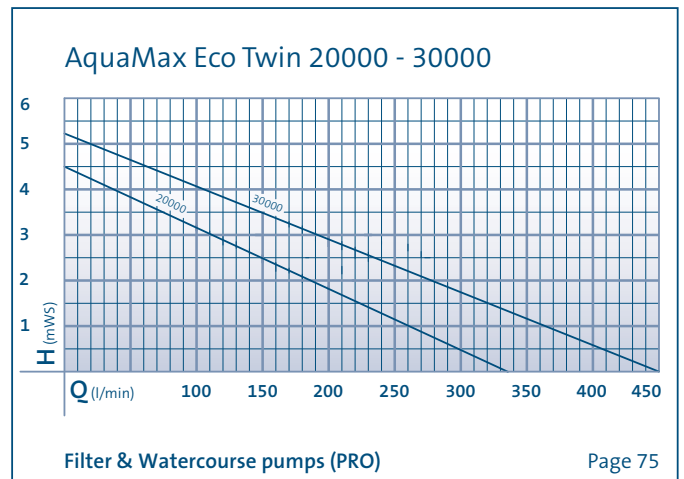
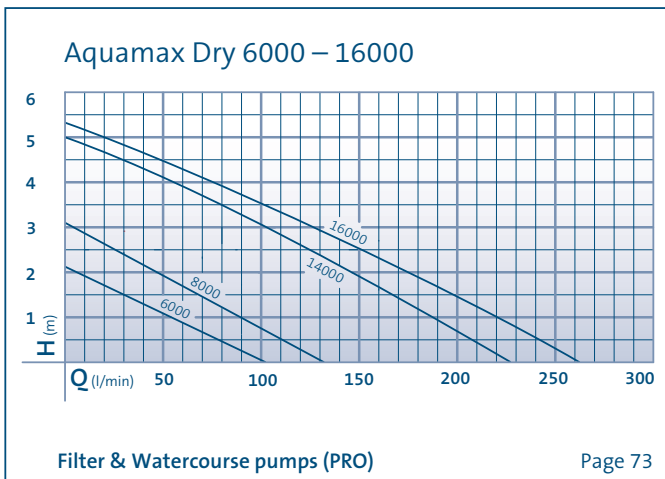
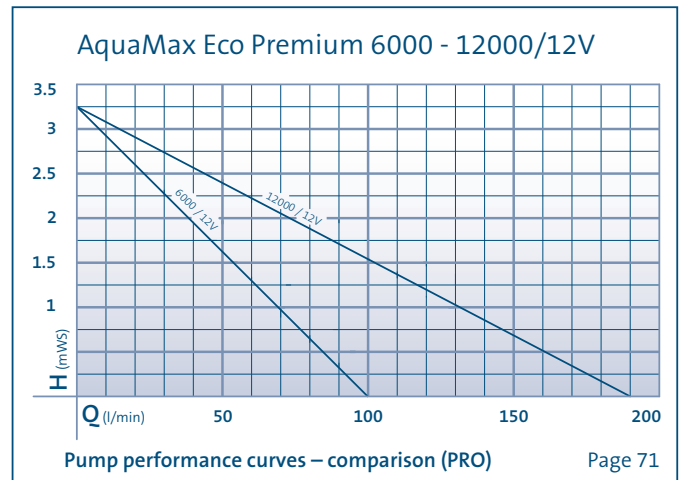
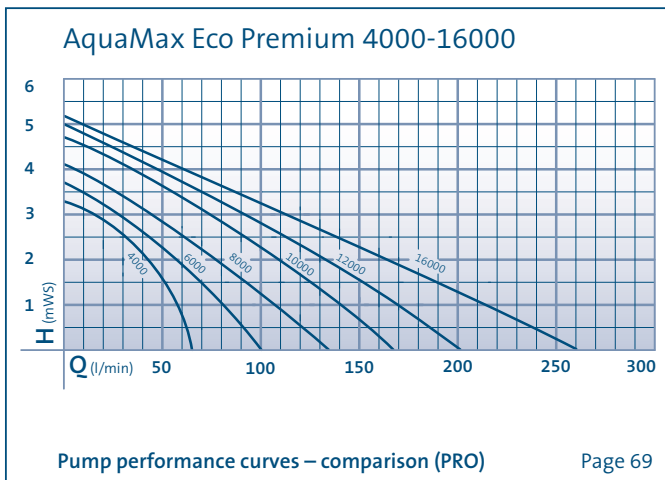
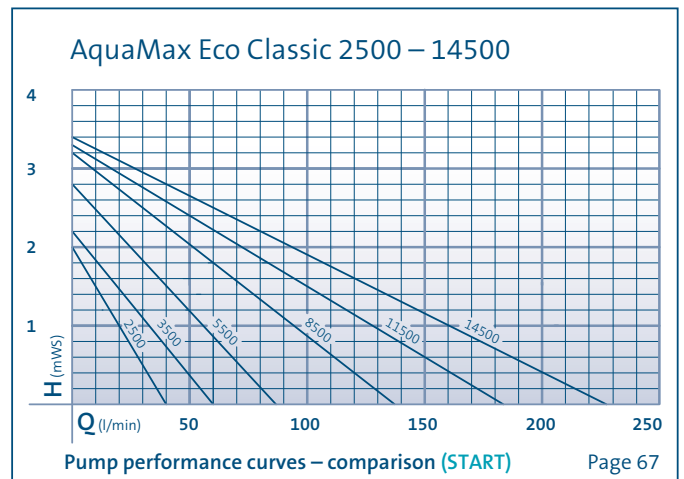
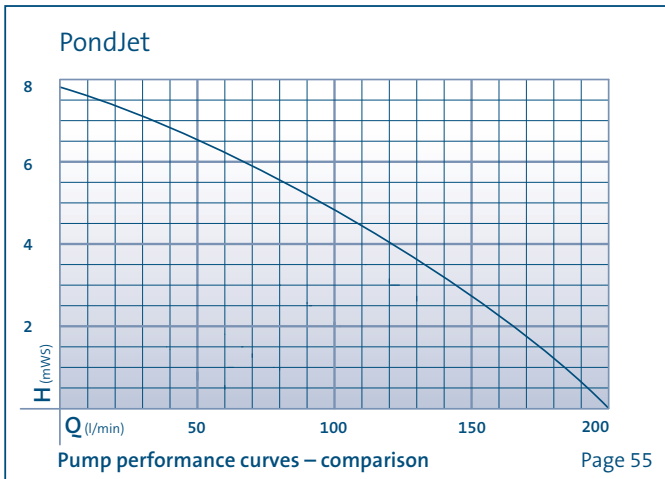
The pump should displace water 1 m above the water surface. At the operating point you can read out that approx. 90 l/min are displaced (determined theoretically). Small hose diameter, the hose length and built in curvature can change the value in the extreme.

The delivery head is specified in mwc (metre water column).
1 mwc ~ 0.1 bar

Explanation of the performance curve below

At the maximum flow rate (Q) of 133 litres per minute, measured directly on the pressure duct of the pump, the delivery head equals 0 cm. At maximum delivery head (H) of 400 cm the flow-rate equals 0 litres.





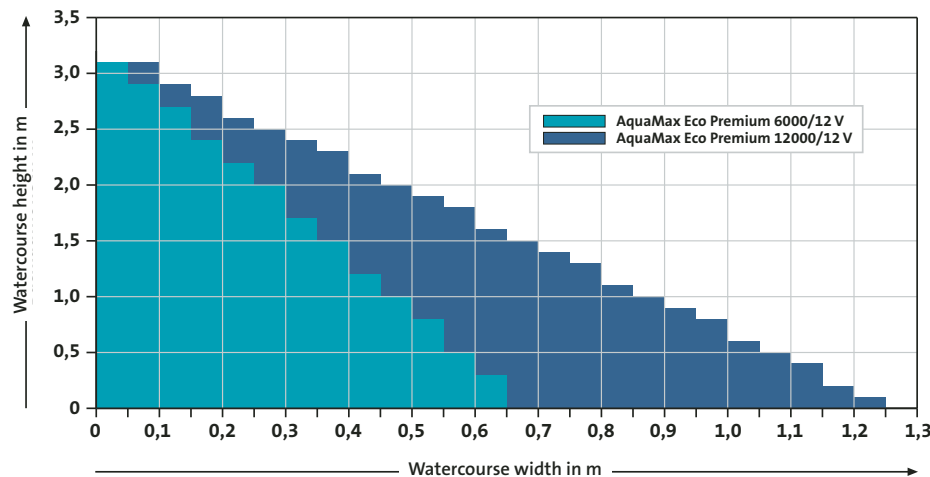
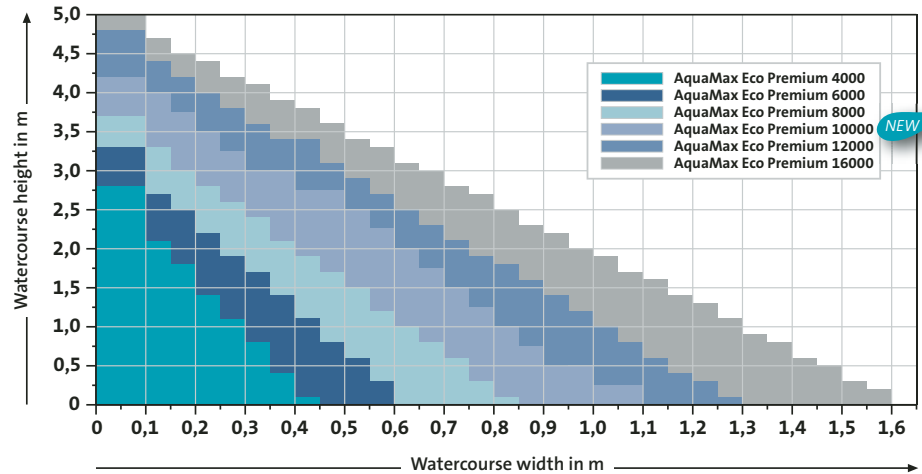
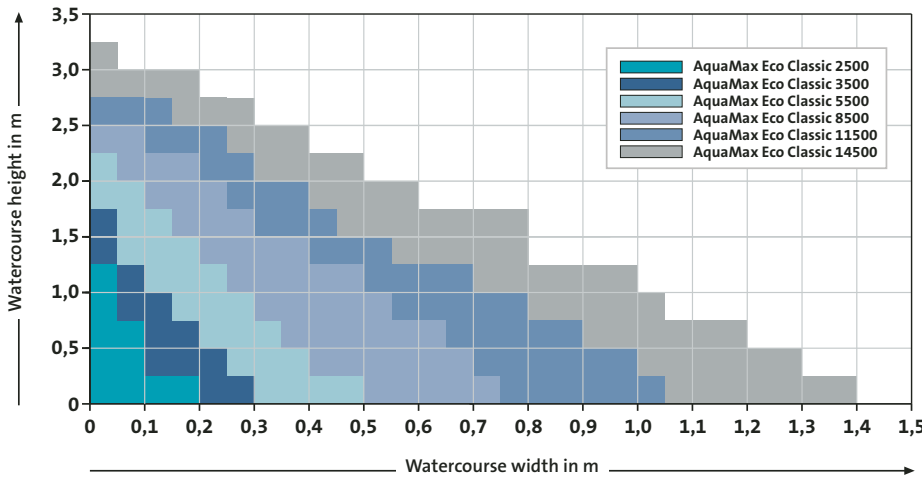
WATERCOURSE DIAGRAMS

Easy, if you know how: Which pump is right for your watercourse?

These diagrams serve as recommendations for selecting the right pump for your watercourse (average watercourse application). In this regard, approx. 5 m of a 1 1/2" hose are considered (with a pressure loss of approx. 0.15 head height).

Here is a rule of thumb for determining the right pump for a watercourse:

Wide watercourse in cm x 1.5 l/min. = capacity l/min.



AquaMax Eco Classic (START)

See page 66



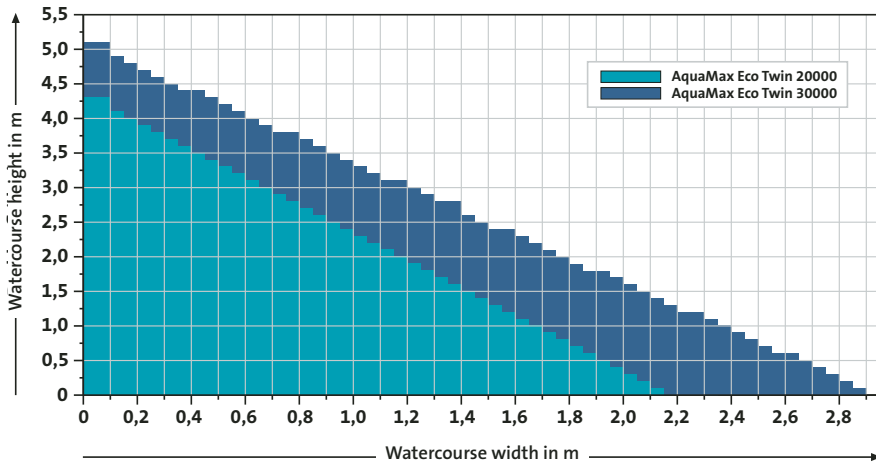
AquaMax Eco Premium (PRO)

See page 68



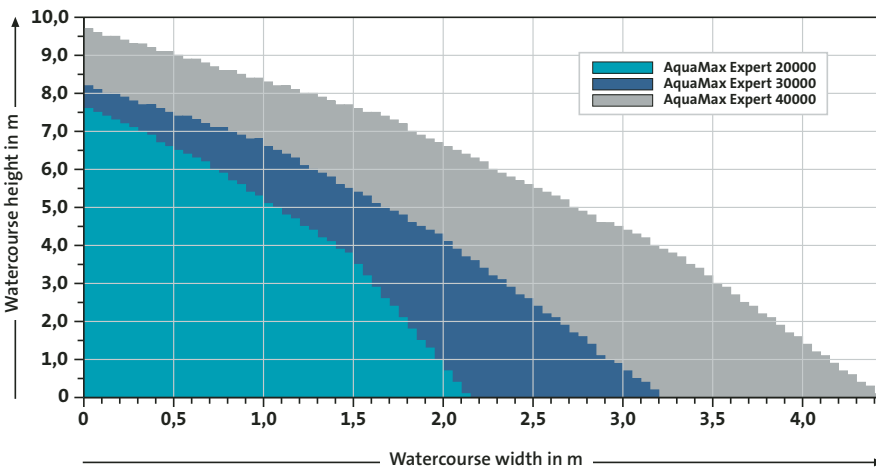
AquaMax Eco Premium /12V (PRO)

See page 70



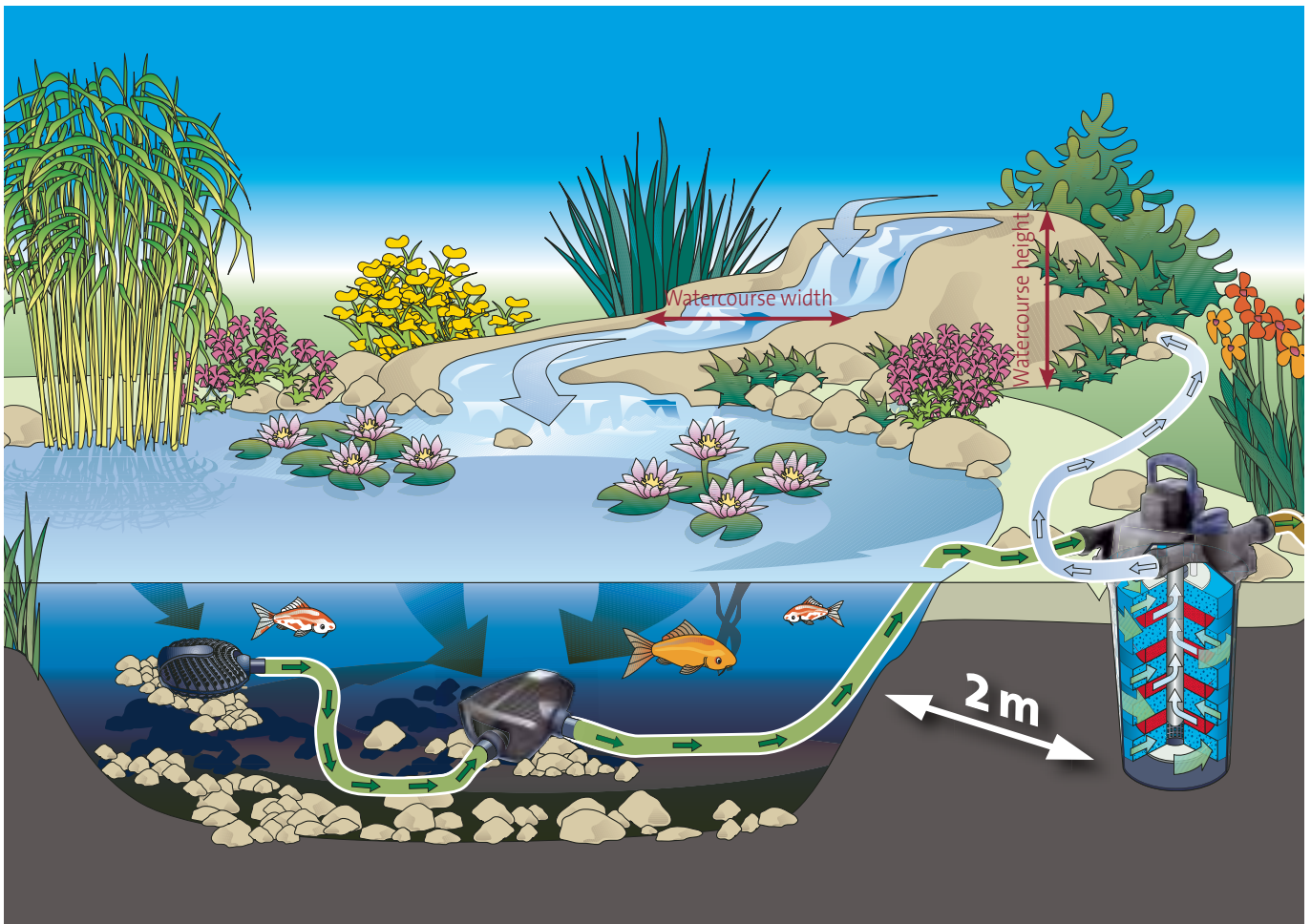
AquaMax Eco Twin (PRO)

See page 74



AquaMax Expert (PRO)

See page 76



PICTOGRAMS, ICONS, ETC.



Icon example
Guarantee:
2 years or 3 years



Icon example
Request guarantee:
3 years or 5 years



Can be installed submersed
and dry
(pumps must be below the water level)



Dry installation only
(pumps must be below the water level)



The product can float



Water level can vary by
as much as xx cm



Remote control



Coloured, alternating light
in the jet



JumpingJet Set:
Permanently programmed
combinations can be selected



JumpingJet Set:
A point of light runs through
the jet



A maximum of 2 JumpingJets
can be connected to the pump



Easy installation



Patent applied for



Patented



Can be used for spray fountains



Fountain height



Product offers protection
against overheating



Product is particularly energy
efficient and cost-efficient
in operation



Icon example
Energy savings up to:
25 %, 40 % or 60 %



Icon example
Power in watt



Product can be operated
with 12 V



Power supply



Fountain pump offers
a second outlet
(e.g. for water spouts)



Adjustable telescopic fountain



Second adjustable suction inlet



Second suction inlet



Pump installation below the
water surface



Suitable for swim ponds with
separate pump chamber



Suitable for swim ponds



Can be used for watercourses



Can be used for waterfalls



Low-noise function



Product set:
Consists of pump, filter,
UVC clarifier



»Seasonal Flow Control«
Adapts to the respective pond
biology throughout the year



Suitable for ponds to xx m²
pond surface



Ponds with plants, without
fish stock



Ponds with plants and
fish stock to 1 kg/1000 l



Ponds with plants and fish stock
to 1 – 3 kg/1000 l (koi ponds)



Clear Water Guarantee
(Please note the conditions, page 226)



»Clear Water System«
Belongs to the family of
CWS devices



Belongs to the BioSys program



EASY CLEAN
easy cleaning



EASY CLEAN PLUS
extremely easy with active
cleaning function



Automatic self-cleaning



Automatic silt discharge



Whirlpool function



Skimmer adjusts to the
pond surface



Icon example
Minimum water depth for
faultless function



Filter can be used for higher positioned watercourses



Illuminants can be used above the water surface and below the water surface



Product dimensions



Easily concealed filter



AquaActiv 3-step plan
Product belongs to category A, B or C



Maximum flow capacity for pumps



Can be operated from the edge of the pond



Tested regularly by OASE to -20 Degrees Celsius



Maximum delivery head



With integrated bottom drain



Winterproof



Particle size of the filter basket



Maximum flow rate for filters



Thermal protection, e.g. in the event of dryrun or blocking



Product belongs to the OASE Solar range



A UVC clarifier is integrated in the product



Device is only designed for indoor use



Power consumption



Bulb power in watt



Integrated LED display



Stainless steel has been used



Long service life of 8000 h for OASE UVC bulbs



Pressure specification



Manufacturer's declaration that the device corresponds to the European guidelines.



Function check for UVC devices



Caution for persons with pacemakers



Tested safety, certified by the TÜV Nord (German Technical Monitoring Association)



Protection against eye injuries through UV radiation



Diameter



Tested safety, certified by VDE (Association of German Engineers), includes monitoring of the manufacturing facilities.



Maximum air displacement quantity



Cable length in m



Maximum insertion depth



Hose length



Maximum circulation in m³/h



Length of the discharge hose



Device must be set up where it is protected against splashing water



Length of the discharge hose



Maximum suction depth



Length of the suction hose



Pond vacuum cleans without interruption



Weight [in kg]

Explanations:

An overview of all icons and their meanings is provided on the Internet at: www.oase-livingwater.com/icons

All specified values for the fountain attachments are approximate values.

H = height in cm

Ø = diameter of the spray water in cm

Spray diameters and spray heights can vary through individual installation and different water qualities.

Note: Electrical connection points must be at least 2 m from the edge of the pond; they must be dry and secured with a max. 30 mA residual current protection circuit.

The products listed in this catalogue are designed for the respective described application and have been tested accordingly by OASE. OASE assumes no liability for damage to the product that occurs through non-intended use. We reserve the right to deviate slightly from the text and illustrations in this catalogue in the interest of technical progress. With publication of this catalogue all other catalogues are no longer valid. Use of the image data only after obtaining express approval from OASE.





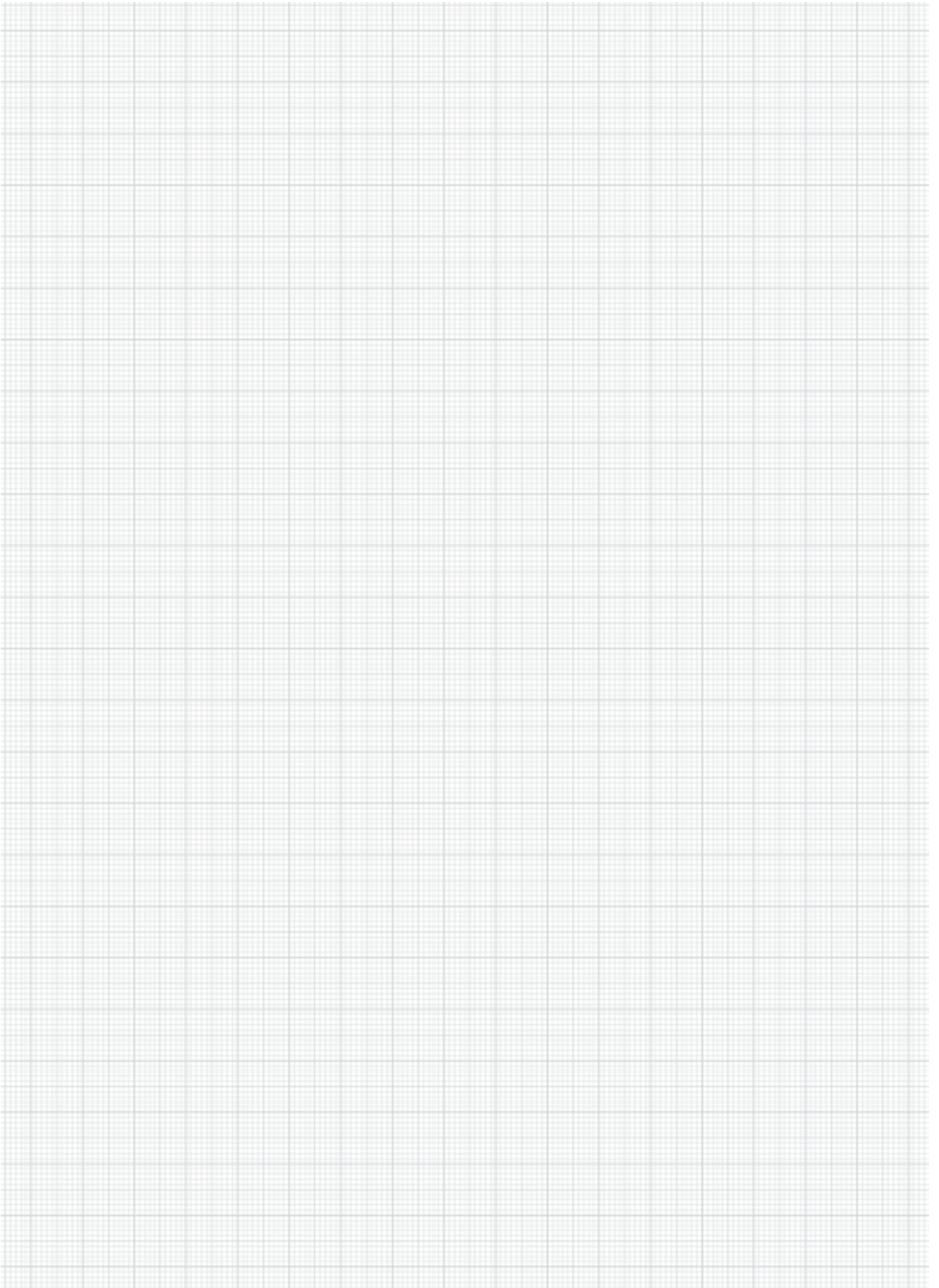




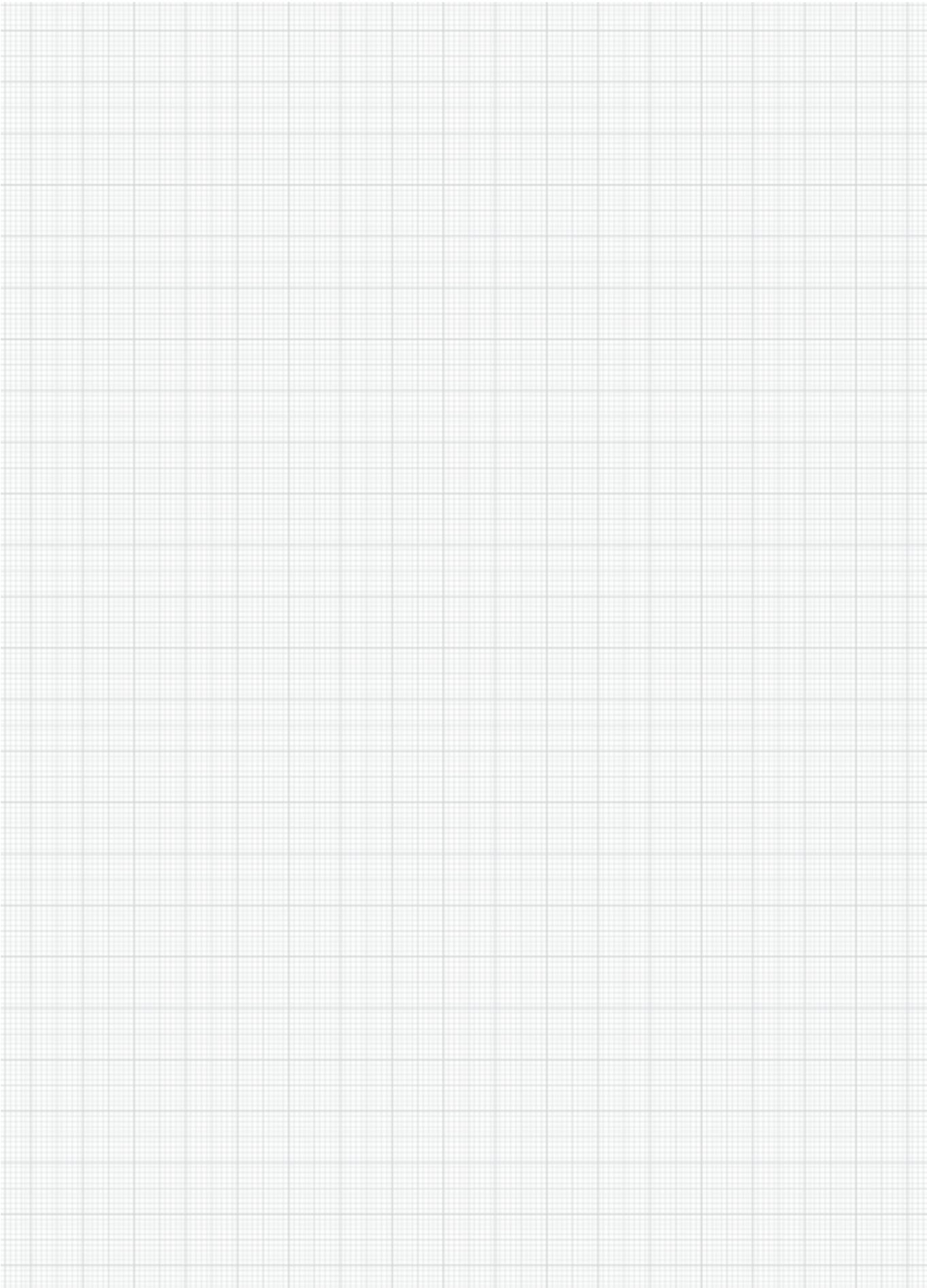




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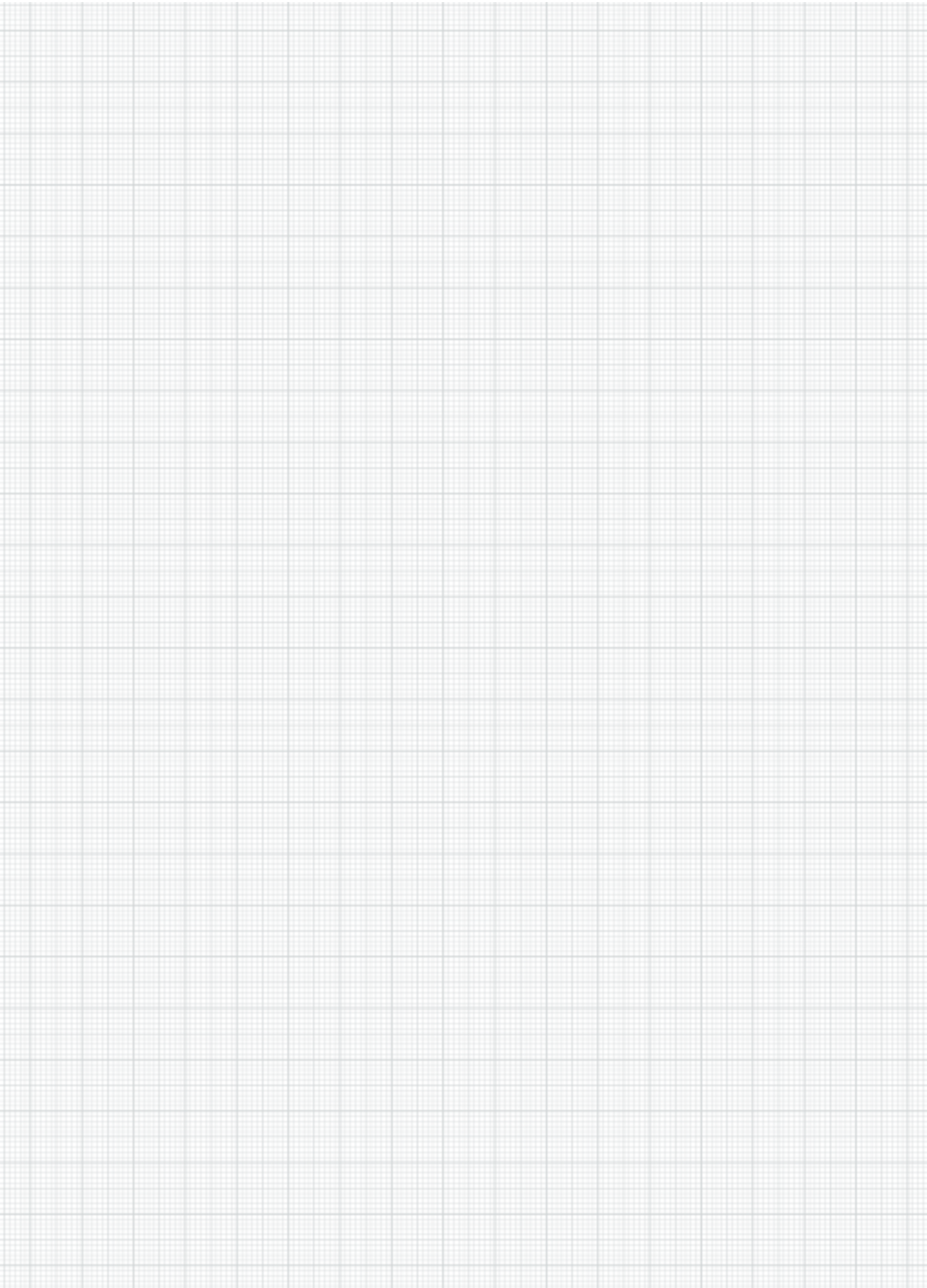
NOTES



NOTES

WORTH KNOWING

NOTES





»THE PATH TO MY GARDEN«

Make it a relaxing experience: With water ideas from OASE

Whether the garden is small or large, romantic, classic or modern, with the OASE Garden Worlds concept water and light become particularly fascinating and individual.

With OASE products you and your customers can implement attractive garden worlds. Be inspired:
www.oase-gardenworlds.com



Modern life



Natural romantic



Timeless classic

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CATALOGUE 2013

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»Enjoy your garden.«

WATER GARDENS · CATALOGUE 2013

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