Oase

PondJet Eco Premium

Operating instructions

Original manual.

Safety information

Electrical connection

- Special regulations apply for electrical installation in outdoor spaces. Only a qualified electrician may perform the electrical installation.
  - The qualified electrician has the necessary professional training, knowledge and experience to perform electrical installation in outdoor spaces. The electrician can detect potential dangers and knows how to adhere to regional and national standards, regulations and directives.
  - For your own safety, please consult a qualified electrician.
- Only connect the unit if the electrical data of the unit and the power supply match.
- Only plug the unit into a correctly installed outlet.
- The device is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.
- Extension cables and power distributors (e.g. outlet strips) must be suitable for outdoor use (splash-proof).
- Protect open plugs and sockets from moisture.

Safe operation

- Disconnect all electrical devices in the water from the power supply before reaching into the water. Otherwise there is a risk of severe injuries or death by electrocution.
- Only operate the unit if no persons are in the water.
- This unit can be used by children aged 8 and above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are supervised or have been instructed on how to use the unit in a safe way and they understand the hazards involved. Do not allow children to play with the unit. Cleaning and user maintenance shall not be carried out by children unless they are aged from 8 years and above and supervised.
- Do not use the unit, if electrical lines or the housing are damaged.
- The supply cord cannot be replaced. If the cord is damaged, the appliance should be scrapped.
- The impeller unit in the pump contains a magnet with a strong magnetic field that may affect the operation of pacemakers or implantable cardioverter defibrillators (ICDs). Keep a distance of at least 0.2 m between the implant and the magnet.
- Never pull on electric cables. In particular, never carry units on their cables.
- Route lines in such a way that they are protected from damage and do not present a tripping hazard.
- Never carry out technical changes to the unit.
- Only carry out work on the unit that is described in this manual.
- Only use original spare parts and accessories.
- Should problems occur, please contact the authorised customer service or OASE.

Intended use

Only use the product described in this manual as follows:

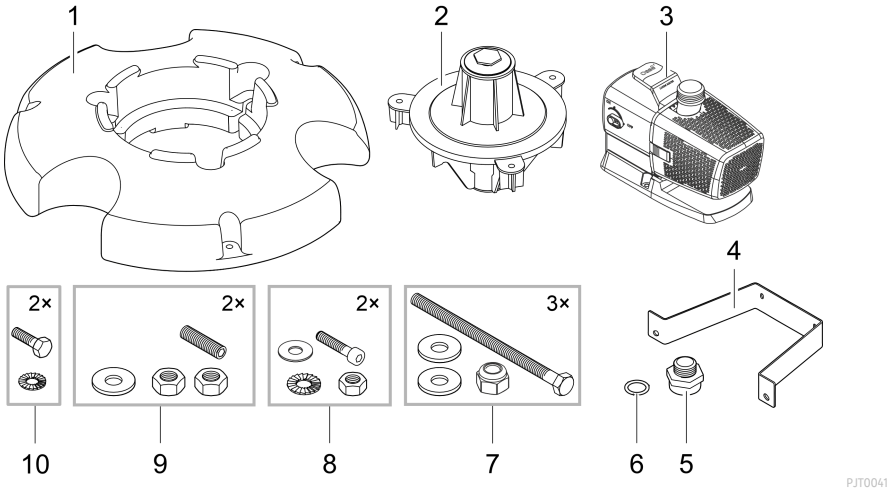
- For creating a water fountain in lakes or large ponds with or without fish.
- For aeration and supplying oxygen to garden ponds.
- While adhering to the technical specifications. (→ Technical data)
- Adherence to the permissible water quality. (→ Permissible water quality)
- For operation with clean water.

The following restrictions apply to the unit:

- Do not use in swimming ponds.
- Never use the unit with fluids other than water.
- Never run the unit without water.
- Do not use the unit together with chemicals, food, flammable, explosive substances or other liquids aside from water.
- Do not use for industrial purposes.

Product Description

Overview



1	Float
2	Nozzle body with integrated multifunctional nozzle (multifunctional nozzle is closed off with a cover disk and plug)
3	Pump
4	Retaining brace for pump
5	Adapter for connection of pump to nozzle body
6	Gasket 40 × 30 × 2 mm, positioned between adapter (5) and nozzle body (2)
7	M8 × 130 mm hexagon screws, washers and self-locking nuts
8	M6 × 35 mm Allen screws, serrated washers, washers and nuts
9	M8 × 40 mm threaded bolts, washers and nuts

Symbols on the unit

IP68 4.0 m	The unit is dust-tight and water-tight down to 4 m.
	Possible danger for persons with pacemakers.
	Protect the unit from direct sunlight.
	Do not dispose of the unit with normal household waste.
	Read the operating instructions.

OASE Control network

The pump can be integrated in an OASE Control network. This makes it possible to control all settings through the convenient OASE Control app and check the status data.

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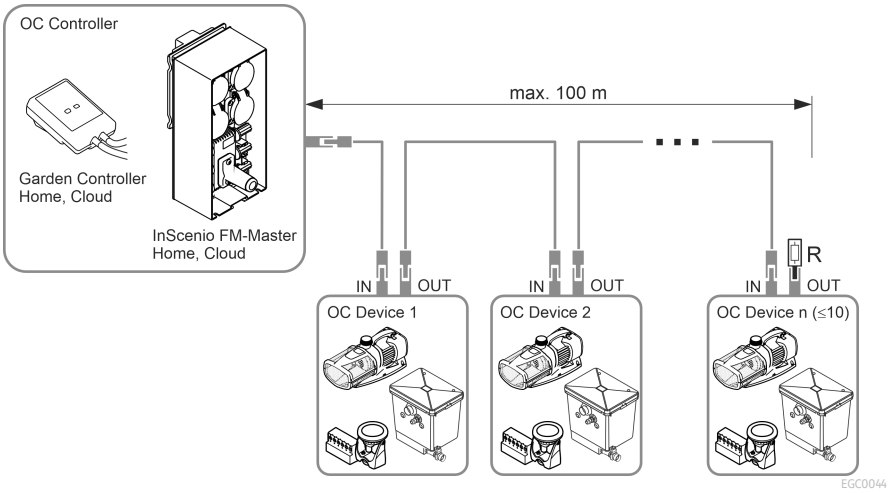
Prerequisites for an OASE Control (OC) network:

- The network consists of an OC control system and max. 10 OC units.
- It must end at the last unit with the OC terminal resistor (R). The terminal resistor is included with the OC control system.
- The network may be max. 100 m long..

OASE Control accessories:

- Connecting cable 2.5 m, article number 47038
- Connecting cable 10 m, article number 47040
- Connecting cable 30 m, article number 72713
- Cable connector, article number 47788



ⓘ More information on OASE Control is available at www.oase.com in the “Smart garden controls and lighting” section.

Assembling the device

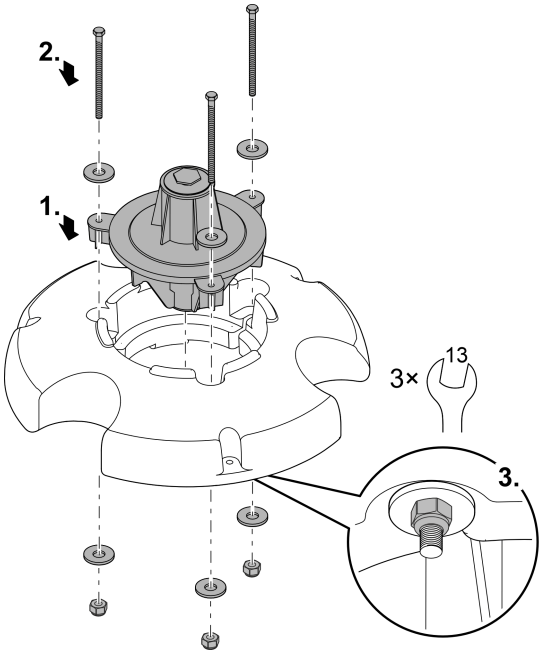
The unit must be completely assembled before it can be placed in the pond. Individual assembly steps:

- Fitting the nozzle body
- Fitting the pump
- Fitting the nozzle

Fitting the nozzle body

How to proceed:

1. Insert the nozzle body into the float.
2. Insert the screws with washers through the holes in the nozzle body.
   – Ensure that the screws protrude from the bottom of the float.
3. Screw the self-locking nuts with washers onto the screws and tighten.
   – Only tighten the screws until the nozzle body is fixed without play (do not overtighten).



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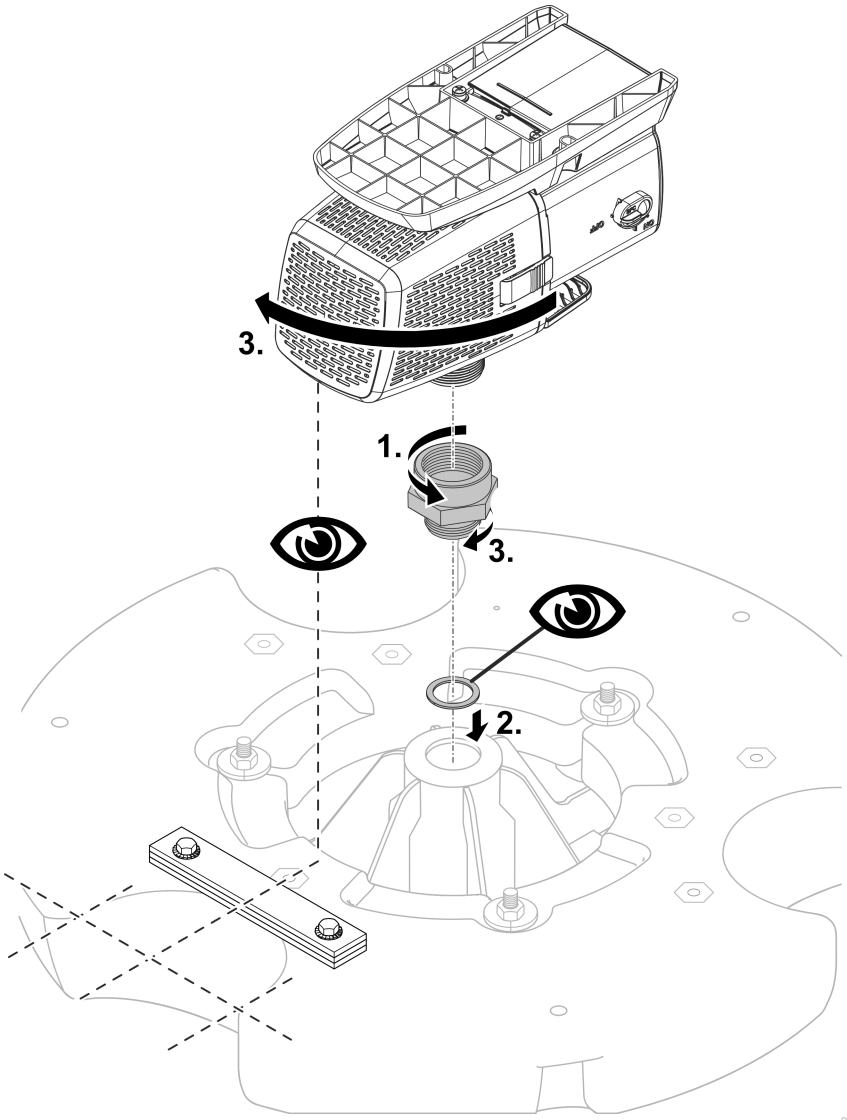
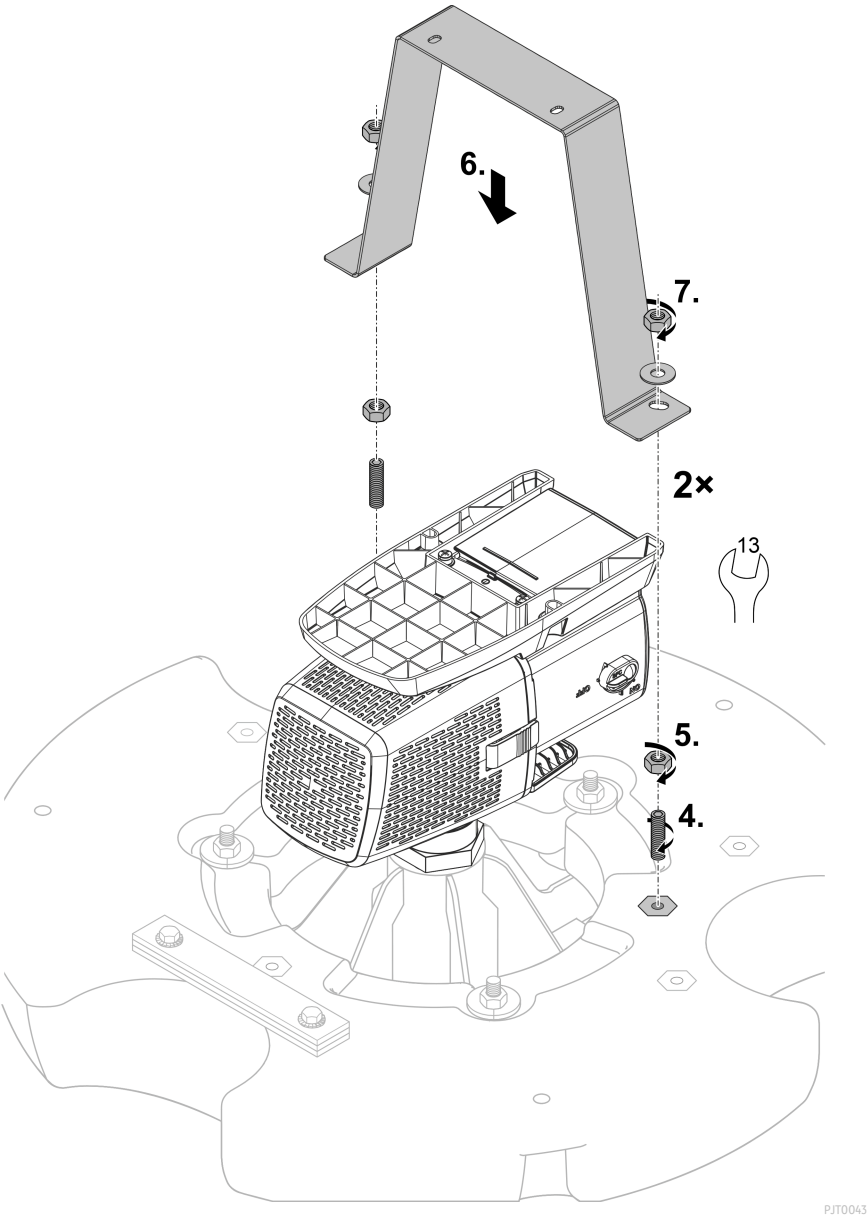
Fitting the pump

How to proceed:

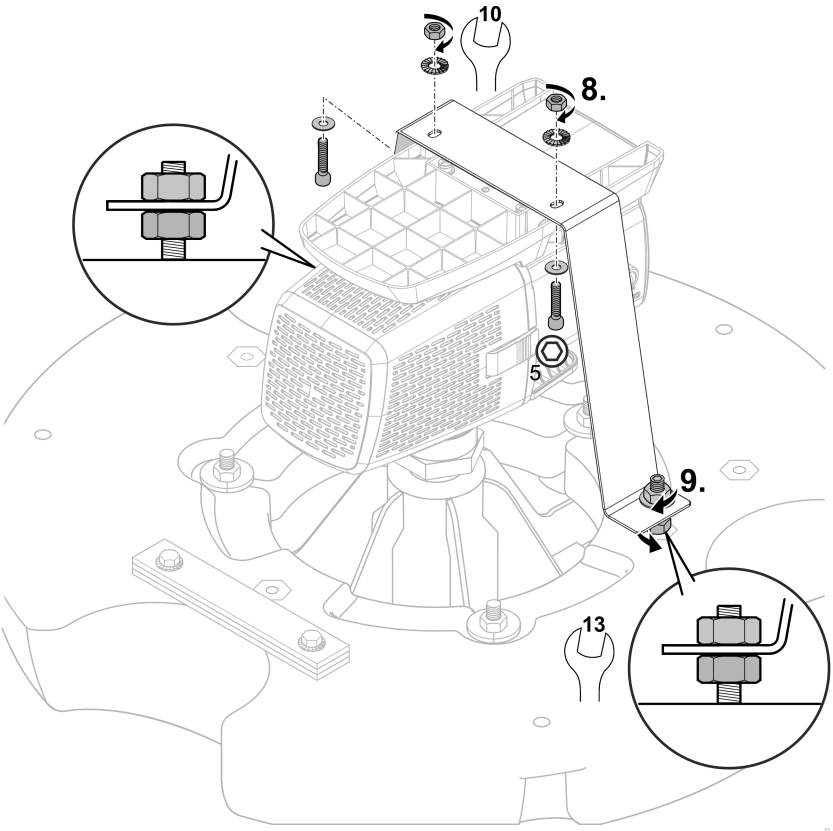
1. Screw the adapter onto the pump outlet up to the stop.
2. Place the gasket on the opening on the nozzle body.
3. Carefully screw the pump with the adapter onto the nozzle body.
   - Ensure that the filter cage points toward the compensation weight.
   - Turn in the adapter thread as far as possible but avoid overwinding. If necessary, turn the pump back by one revolution.



4. Turn the two threaded bolts into the threaded sockets on the float.
5. Turn the nuts onto the threaded bolts.
   — The nuts serve as a support for the retaining brace.
6. Place the retaining brace on the two threaded rods.
7. First loosely fasten the retaining brace using the washers and nuts.



8. Screw the pump foot and the retaining brace in place using two Allen screws, washers, serrated washers and nuts.
   – If necessary, adjust the position of the bottom nuts on the threaded rods of the retaining brace-float connection.
9. Firmly tighten the top nuts on the threaded rods of the retaining brace-float connection.
   – Ensure that the retaining brace is tension-free and not warped. If necessary, correct the bottom nuts.

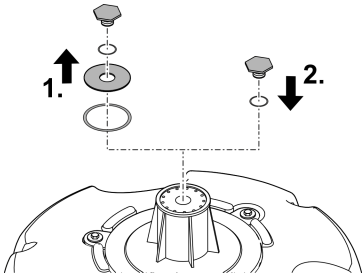


Fitting the nozzle

Multifunctional nozzle

How to proceed:

1. Undo the plug and remove it together with the cover disc and the two O-rings.
2. Screw the plug with the O-ring back in again and tighten it.
   — The outlets of the multifunctional nozzle are now uncovered.



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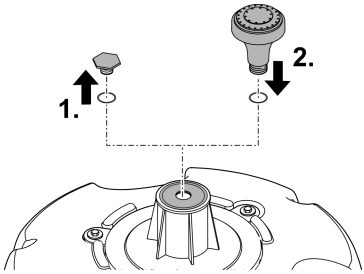
Optional nozzle

Connection: 25 mm (1 ")

How to proceed:

1. Undo the plug and remove it with the O-ring.
   — The cover disc with the O-ring beneath it remains in position. It closes the openings of the multifunctional nozzle.
2. Screw in the optional nozzle with the O-ring and tighten it.
   — The nozzle is now ready for operation.



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Installation and connection

The use of the pump is only permitted with observance of the specified water quality.
(→ Permissible water quality)

⚠ WARNING

Severe injuries or death due to operation of this unit in a swimming pond. Defective electrical components will electrify the water with dangerous electrical voltage.

▶ Never operate the unit in a swimming pond.

⚠ CAUTION

Rotating components in the intake and pressure socket area. Risk of injury when reaching into the sockets.

In particular, observe the following: A unit that has stopped due to overload can start up unexpectedly!

▶ Do not reach into the opening of the intake socket or pressure socket while the power plug is plugged in.

▶ If the sockets are freely accessible during operation, e.g. if no hoses are connected, use a hand guard to secure the sockets. The hand guard is available as an accessory.

ⓘ For soiled water, we recommend using a filter bag (available in specialist stores). This will reduce the number of dirt particles that can enter the pump housing.
– Wrap the filter bag around the filter cage of the pump and fasten it securely.

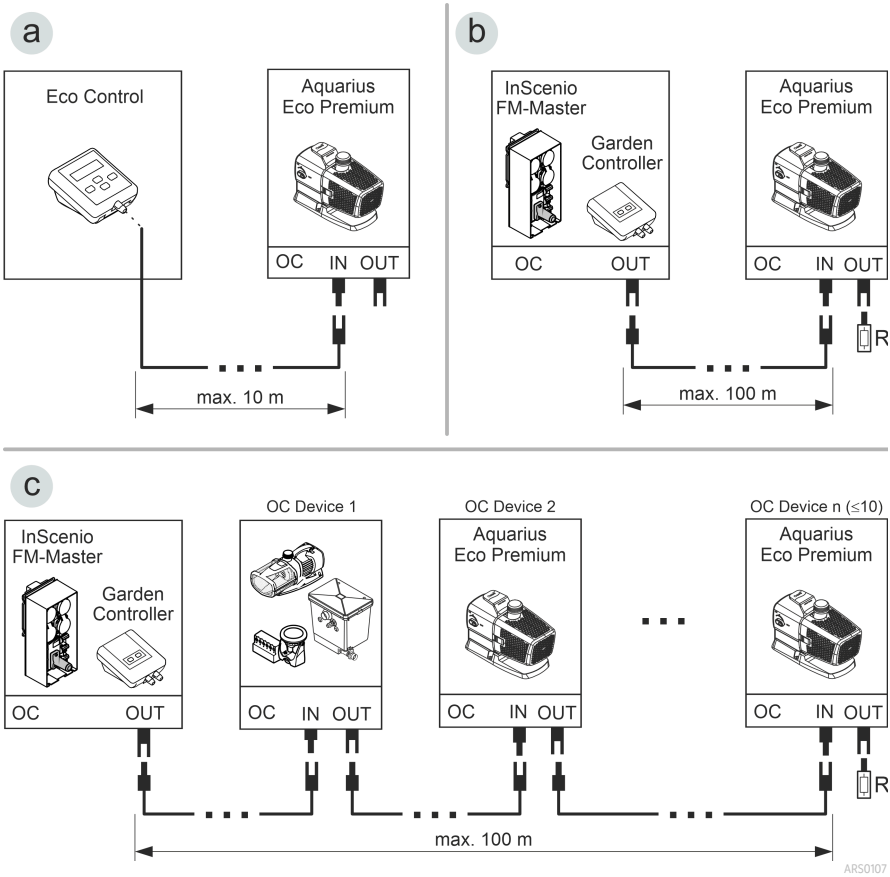
Connecting the control system

The pump can be operated with or without the control system.

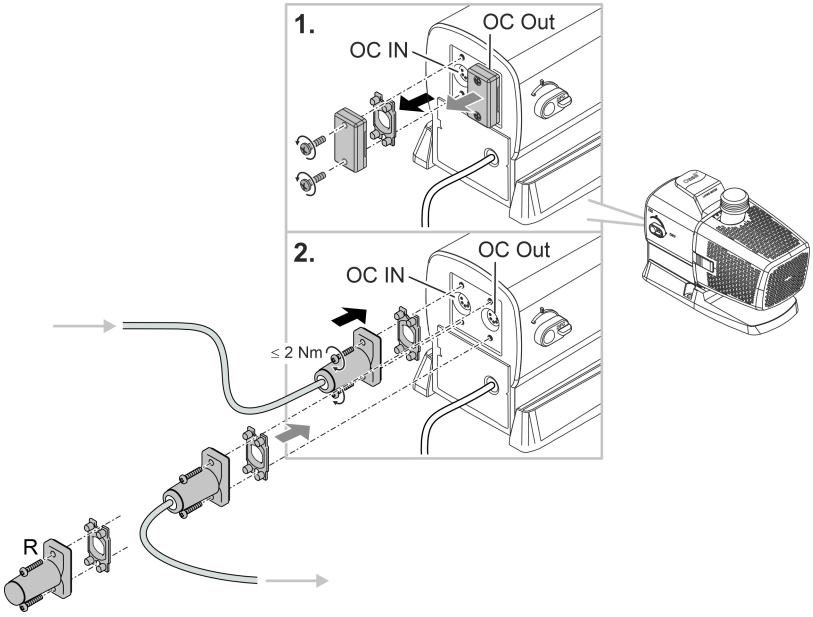
- The control system makes it possible to regulate the pump power.
- Without the control system, the pump runs permanently at full power.

Compatible control systems (accessories):

- Eco Control
  Intelligent control system for one pump.
- Incenio FM-Master Cloud
  Garden Controller Cloud
  Up to 10 OASE Control-compatible units (pumps, filters, lights) can be controlled using the "OASE Control" app.
  For information on this topic, visit www.oase.com and navigate to the section “Smart garden controls and lighting”.



- An OASE Control network (variant B, C) must end with a terminal resistor R. The terminal resistor is included with the InSenio FM-Master or Garden Controller.

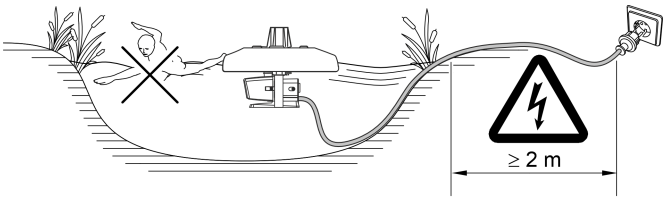


NOTE

The unit will be damaged, if water enters the plug connector.

- ▶ Connect the plug connector or place the protective cap on it.
- ▶ Ensure that the rubber seal is clean and fits exactly.
- ▶ If the rubber seal is damaged, it must be replaced. When the plug connector is disconnected, the rubber seal must be replaced if it is older than 2 years.
- ▶ Always secure the plug connector or the protective cap with the two screws.

Installing the unit



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The unit floats on the water and therefore has to be moored to the edge or base of the pond (e.g. with nylon ropes).

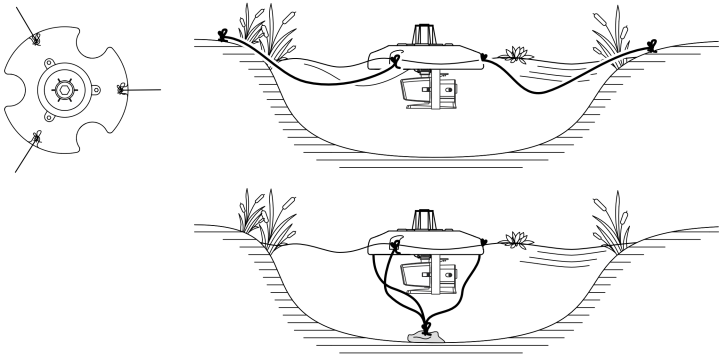
- **Necessary minimum depth of water: 0.5** m

Mooring to the edge of the pond

- Attach the ends of the nylon ropes to the three holes in the float.
- Position the unit in the water and attach the other ends of the nylon ropes to the edge of the pond, ensuring that they are uniformly distributed around the edge of the pond.
- Only moderately tension the nylon ropes to allow for fluctuations in the water level.
- If the nylon ropes present a hazard, secure the entire area around the unit.
- The connection cable must be provided with strain relief.

Mooring to the bottom of the pond

- Determine the depth of the water and cut three nylon ropes to length (depth of the water plus 1 m).
- Attach the ends of the nylon ropes to the three holes in the float.
- Attach the other ends of the nylon ropes to a weight (approx. 20 kg).
- Position the unit in the water and lower the weight to the bottom of the pond.
- Ensure that the nylon ropes are not tensioned in order to allow for fluctuations in the water level.
- The connection cable must be provided with strain relief.



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Commissioning/start-up

NOTE

The unit will be destroyed if it is operated with a dimmer. It contains sensitive electrical components.

▶ Do not connect the unit to a dimmable power supply.

NOTE

Never allow the pump to run dry. Otherwise the pump may be destroyed.

▶ Only operate the pump when it is submerged or flooded.

Switching ON/OFF

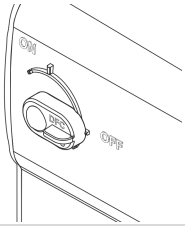
- **Switching on:** Plug the power plug into the outlet.
  – The unit is switched on after a brief starting phase.
- **Switching off:** Pull the power plug from the outlet.

Environmental Function Control (EFC)

When started up and then every 20 ... 40 minutes the pump automatically performs a pre-programmed self-test (**Environmental Function Control (EFC)**). The pump detects if it is running dry / clogged or submerged. The pump shuts down automatically after 60 to 120 seconds if it runs dry/is blocked. In the event of a malfunction, disconnect the power supply and “flood the pump” or remove the obstacle. Afterwards, the unit can be restarted.

Dynamic Function Control (DFC)

If the dynamic function is activated, the pump flow rate changes continuously based on the programmed values. This creates a dynamic fountain pattern.

	Switching the dynamic function and off ON: DFC is switched on. OFF: DFC is switched off.

ⓘ You can also operate the dynamic function using the Eco Control control system or in a OASE Control network via the app “OASE Control”. In this case you can choose from 12 scenes featuring different dynamic fountain patterns. Without a control system / without a network, the first scene is always active when the dynamic function is activated.

NOTE

If the Dynamic Function is active, the EFC (Environmental Function Control) function is limited.

▶ The unit is not protected from running dry.

Maintenance and cleaning

⚠ CAUTION

Risk of injury due to unexpected start-up. Internal monitoring functions may switch off the unit and automatically reactivate it.

▶ Disconnect the power plug before carrying out any work on the unit.

NOTE

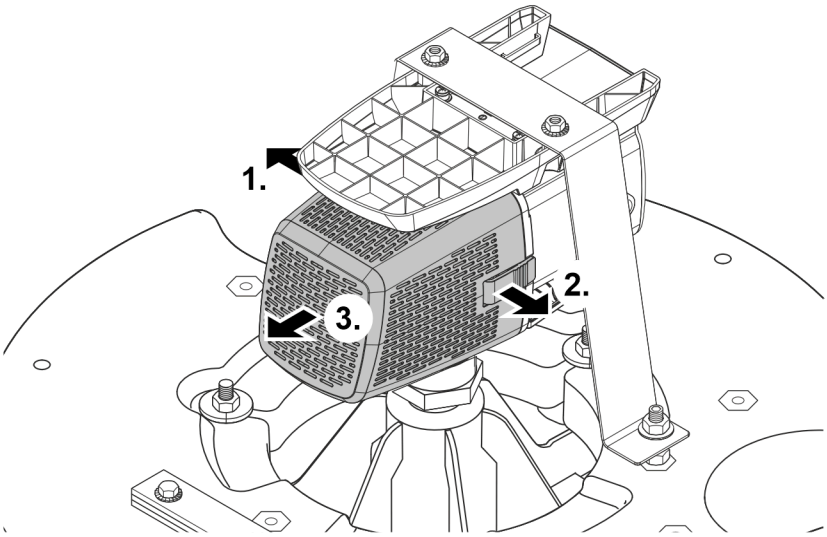
Do not use aggressive cleaning agents or chemical solutions. These agents can damage the housing, impair the function of the device and harm animals, plants and the environment.

▶ If possible, clean the unit with clear water and a soft brush or a sponge; remove stubborn dirt with the aid of the recommended cleaning agents.

Cleaning the device

ⓘ Clean the unit as required but at least twiceper year.

- Recommended cleaning agent for removing stubborn limescale deposits:
  - Pump cleaning agent PumpClean from OASE.
  - Vinegar- and chlorine-free household cleaning agent.
- After cleaning, thoroughly rinse all parts in clean water.



Cleaning/replacing the impeller unit

NOTE

The impeller unit is guided in the motor block by a bearing. This bearing is a wear part and should be changed at the same time as the impeller unit.

▶ Changing the bearing requires specialist knowledge and tools. Have the bearing changed by the OASE specialist dealer or send the pump to OASE.

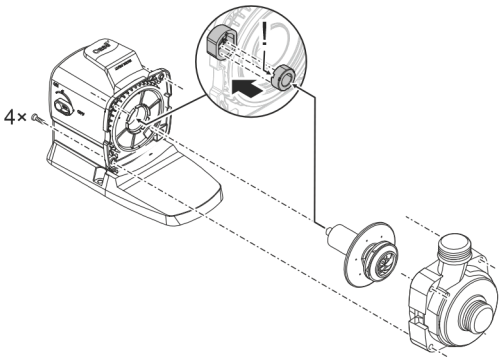
NOTE

The impeller unit contains strong magnets that attract magnetic particles (e.g. iron filings). Any remaining particles can cause irreparable damage to the impeller unit and motor block.

▶ Carefully remove any adhering particles from the impeller unit prior to installation.

- Dismantle the motor block as shown in the figure.
- Use a brush under clear water to clean the components.
- Check all components for damage. Replace damaged or worn components.
- Reassemble the motor block in reverse order.

ⓘ When the impeller is pulled out, the bearing in the motor block may come loose. During re-assembly, check that it is positioned correctly. If necessary, push the bearing into the motor block with the wide grooves first.



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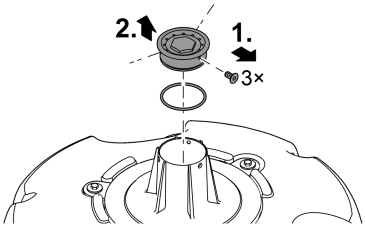
Cleaning the multifunctional nozzle

How to proceed:

1. Remove three screws.
2. Remove the multifunctional nozzle.
   – An O-ring is seated in a groove on the multifunctional nozzle.
3. Clean the multifunctional nozzle together with the O-ring using clean water.
   – Use a soft brush as an aid.
   – Ensure that the O-ring fits cleanly into the groove on the multifunctional nozzle.
4. Reassemble the unit in the reverse order.



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Storage/winter protection

The unit is frost resistant to minus 20 °C. Should you store the unit outside of the pond, clean it thoroughly with a soft brush and water, check it for damage, then store immersed in water or filled with water. Do not immerse the power plug in water!

Malfunction remedy

Malfunction	Cause	Remedy
Pump does not start	No mains voltage	Check the mains voltage.
	No control voltage (only with optional external controls)	Check connection to OASE Eco Control or OASE Control network; if necessary switch on pump via these networks
	Supply lines kinked	Route the supply lines without kinks
	Supply lines blocked.	Check/clean the supply lines
	Impeller unit is blocked	Remove blockage, check impeller unit for ease of movement
Pump does not transport fluid Insufficient delivered quantity	Filter housing clogged	Clean strainer casings
	Excessive loss in the supply lines	Reduce hose length to the necessary minimum, remove unnecessary connection parts, use larger hose diameters
	Impeller unit is running sluggishly	Check impeller unit for ease of movement
Pump switches off after operating briefly	Water heavily soiled	Clean pump
	Impeller unit is blocked	Remove blockage, check impeller unit for ease of movement
	Pump has run dry	Check/clean supply lines, increase immersion depth (min. 10 cm under water surface)
	Water temperature too high	Adhere to the maximum permissible water temperature. (→ Technical data)

Wear parts

- Impeller unit
- Bearing in the motor block

Spare parts

(→ Ersatzteile, 📖 442)

Technical data

Unit data

PondJet Eco Premium			
Connection voltage		V AC	220 ... 240
Mains frequency		Hz	50/60
Max. power consumption		W	150
Max. pump capacity		l/h	13500
Max. pump head		m	7.5
Max. fountain height		m	3.75
Min. water depth		m	0.5
Protection type			IP68
Max. immersion depth		m	4
Connection, pressure side	without adapter		G1½
	with adapter		G1
Filter supply surface area		cm²	535
Water temperature	During operation	°C	+4 ... +35
	Out of operation	°C	-20 ... +35
Dimensions	Diameter	mm	670
	Height	mm	520
Connection cable length		m	20
Weight		kg	15.5

Permissible water quality

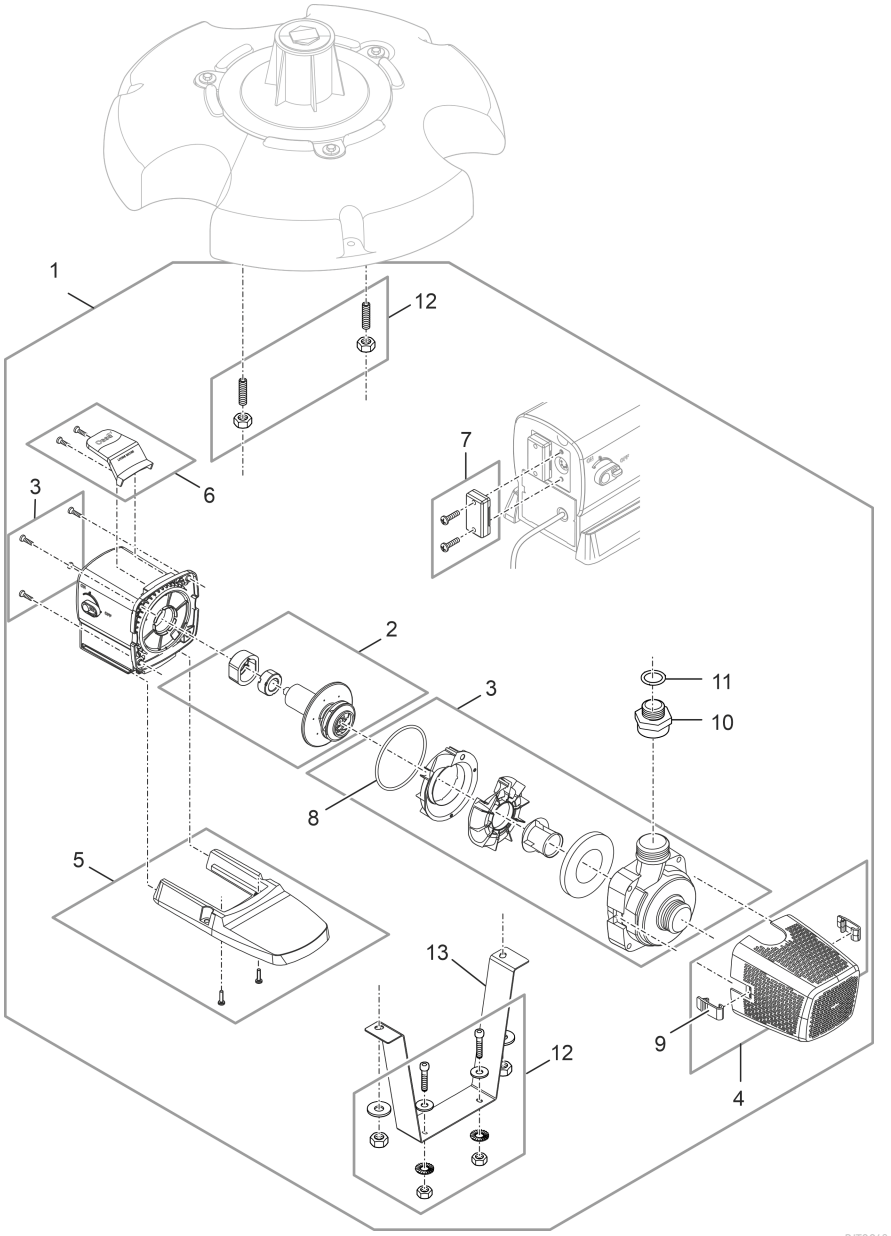
pH value		6.5 ... 8.5
Hardness	DH	8 ... 15
Free chlorine	mg/l	<0.5
Salt content (max. 14 days per year)	%	<0.5
Permissible water temperature	°C	+4 ... +35

Disposal

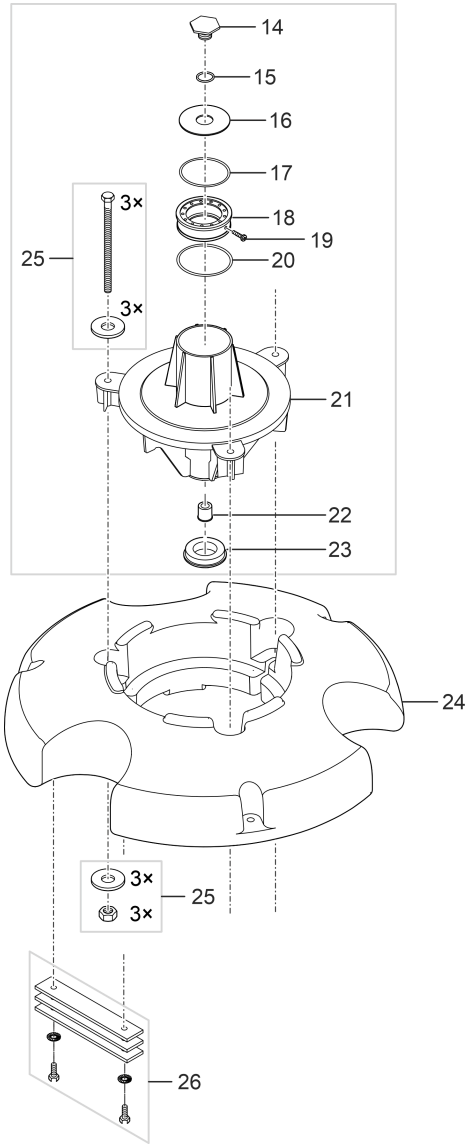
NOTE

Do not dispose of this unit with household waste.

- ▶ Dispose of the unit by using the return system provided for this purpose.
- ▶ Should you have questions, please contact your local disposal company. They will give you information on how to correctly dispose of the unit.
- ▶ Render the unit unusable by cutting the cables.



1	97706	2	97200	3	97203	4	97206
5	97208	6	97209	7	97110	8	90949
9	30983	10	40596	11	22279	12	97705
13	96663						



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14	19544	15	13290	16	19545	17	3578
18	19282	19	16663	20	3579	21	19279
22	10035	23	19280	24	17939	25	97704
26	47934						

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