



31000, 51000, 81000

DE Gebra	uchsanl	eitung
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- EN Operating instructions
- FR Notice d'emploi
- NL Gebruiksaanwijzing
- ES Instrucciones de uso
- PT Instruções de uso
- IT Istruzioni d'uso
- DA Brugsanvisning
- NO Bruksanvisning
- SV Bruksanvisning
- FI Käyttöohje

HU PL	Használati útmutató Instrukcja użytkowania	RC
CS	Návod k použití	
SK	Návod na použitie	BC
SL	Navodila za uporabo	
HR	Uputa o upotrebi	Uk
RO	Instrucțiuni de folosință	
BG	Упътване за употреба	RL
UK	Посібник з експлуатації	
RU	Руководство по эксплуатации	CN
CN	使用说明书	CI

FR NL ES PT IT DA NO SV FI HU

CS

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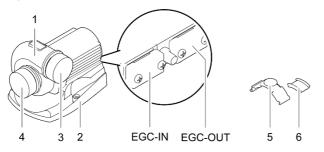
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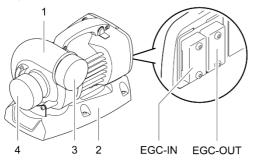
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AquaMax Eco Titanium 31000



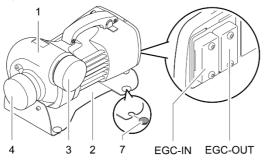
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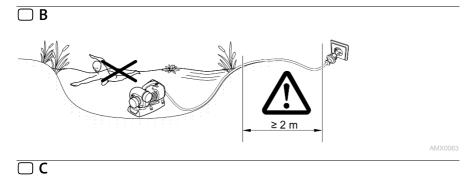
AquaMax Eco Titanium 51000

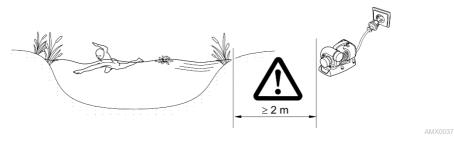


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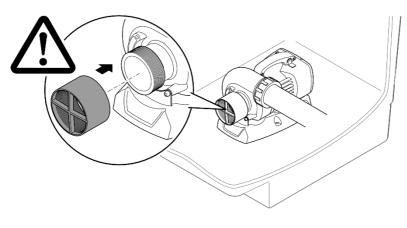
AquaMax Eco Titanium 81000

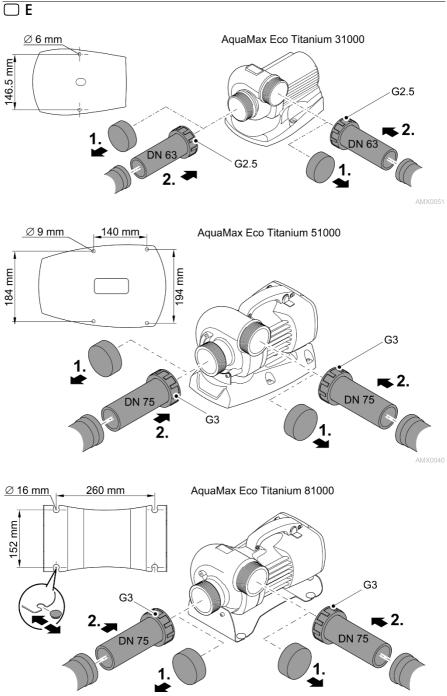












Original manual.

A WARNING

- 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.
- 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. Only allow children to carry out cleaning and user maintenance under supervision.

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. Ensure that the unit is fused for a rated fault current of max. 30 mA by means of a fault current protection device.
- 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

- Do not use the unit, if electrical lines or the housing are damaged.
- A damaged connection cable cannot be replaced. Dispose of the unit.
- 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.
- Do not carry or pull the unit by its power cable.
- 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.
- Route lines in such a way that they are protected from damage and do not present a tripping hazard.
- Should problems occur, please contact the authorised customer service or OASE.

Product Description

Overview

\Box A	AquaMax Eco Titanium					
	31000	51000	81000	Description		
1	•	•	•	Pump casing The pump casing can be turned by 90°.		
2	٠	•	•	Stand Ensures a stable position. Screwing the stand to the ground is possible.		
3	•	•	•	Outlet (pressure socket)	Keep the protective caps. To prevent serious injury while the	
4	•	•	•	Inlet (suction socket)	pump is running, immediately attach the protective cap after you have re- moved a connected pipe.	
5	•	_	-	Clip attachment for fastening the OASE Eco Control		
6	•	-	-	Rubber element for the clip attachment		
7	_	_	•	Rubber foot Removable if the stand is to be screwed to the ground		
EGC- IN	٠	•	•	EGC connection Connection for the OASE Eco Control or for integration in an EGC network.		
EGC- OUT				 Important: Moisture in the EGC connection will damage the pump. Always close the connection (with a protective cap or the EGC plug). Ensure that the rubber seal is clean and fits exactly. Replace the rubber seal if it is damaged. 		

Easy Garden Control System (EGC)

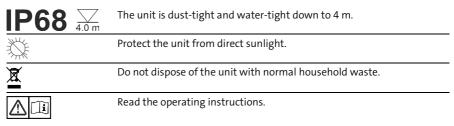
This product can communicate with the Easy Garden Control-System (EGC). EGC allows convenient control in the garden and pond via smartphone or tablet, and ensures maximum convenience and reliability. Information about EGC and the possibilities it offers can be found at www.oase.com/egc-start.

Seasonal Flow Control (SFC)

With the SFC function activated, the pump automatically optimises the water quantity and head height, and reduces the amount of water and the delivery head by up to 50%. Thanks to the SFC function the pump adapts to the individual pond ecology throughout the year and supports the pond biology through temperature-dependent circulation (winter mode, transition mode and summer mode).

The SFC function is switched on and off by the Eco Control or an EGC compatible controller (optionally available accessory). The SFC function reduces the power consumption of the pump; without SFC, the pump permanently operates at maximum throughput. The seasonal flow control does not function when the pump is installed on land (dry installation). If a skimmer, satellite filter or Oase InScenio control unit is used, we recommend deactivating the SFC function depending on the unit.

Symbols on the unit



Intended use

Only use the product described in this manual as follows:

- For pumping normal pond water for filter systems, waterfall systems and water course systems.
- Operate the product in compliance with the technical data. (\rightarrow Technical data)
- Adherence to the permissible water quality. (\rightarrow Technical data)

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 in conjunction with chemicals, foodstuff, easily flammable or explosive substances.
- Do not connect to the domestic water supply.
- Do not use for commercial or industrial purposes.

Installation and connection

Submerged installation of the pump

🛦 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.

A WARNING

The impeller unit rotates very fast. Do not reach into the openings of the suction socket or pressure socket as there is a risk of severe injury such as loss of limb.

- Secure the suction socket/pressure socket with a hand guard if no pipe is connected. The hand guard is available as an accessory (AquaMax Eco Titanium 31000: 48597, AquaMax Eco Titanium 51000, 81000: 73658).
- ▶ Place the pump in a pump chamber and secure access to the pump chamber (use a padlock or screws to secure the access point).

🗆 B, D

- Ensure that the power cables and mains sockets are at least 2 m from the water.
- For installation of the pump in a pump chamber (recommended):
 - For a swimming pond or pool frequented by swimming people, install the pump chamber at least 2 m from the water.
 - Install the pump horizontally.
 - Screw the stand to the floor of the pump chamber to ensure the stability of the pump.
- For installation of the pump without a pump chamber:
 - Place the pump horizontally on a stable, mud-free surface.
 - Ensure secure and stable positioning of the pump.
- Only operate the pump when it is fully submerged.
- Pool water or salt water can impair the appearance of the unit. Such impairments are excluded from the guarantee.

Dry installation of the pump

 \Box C

- Ensure that the power cables and mains sockets are at least 2 m from the water.
- For a swimming pond or pool frequented by swimming people, install the pump at least 2 m from the water.
- Place the pump horizontally on a stable surface.
- Ensure secure and stable positioning of the pump. If necessary, screw the stand to the ground.
- Protect the pump from direct sunlight.
- Adhere to the maximum permissible ambient temperature. If necessary, provide forced cooling. (→ Technical data)

Connecting the pressure side/suction side

□ E

- Only remove the protective cap just before you connect the pipe or hand guard.
- The position of the pump outlet can be changed. The pump casing can be turned to achieve a different position.(→ Turning the pump casing to achieve a different position)

Turning the pump casing to achieve a different position

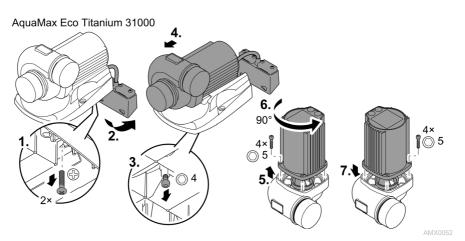
NOTE

If the pump housing jams when it is removed and pushes against the impeller unit, this will damage the impeller unit.

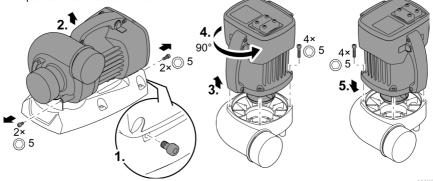
- ▶ Position the pump vertically before removing the pump housing. This ensures that the weight of the pump housing can no longer push against the impeller unit.
- ► Carefully pull the motor block off the pump housing, ensuring that it is kept straight.
- ▶ Proceed equally carefully during assembly.

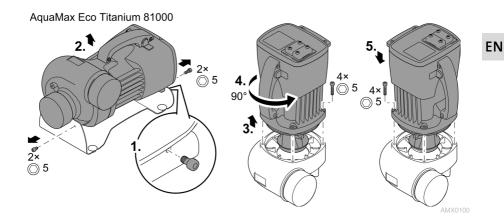
If necessary, the pump casing can be turned to change the position of the pump outlet by 90°.

- The pump casing can only be mounted in the two positions indicated.
- Reassemble the pump in the reverse order.
 - Tightening torque for all loosened screws: 3 Nm



AquaMax Eco Titanium 51000

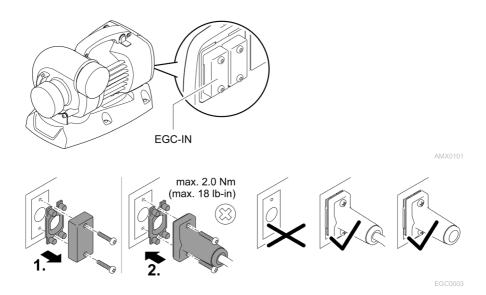




Eco Control Connecting

You can control the pump using the OASE Eco Control system.

- The control unit Eco Control (47673) is available as an accessory for Eco Expert pumps.
- Connect the OASE Eco Control system to EGC-IN on the pump.
- Tor information on connection and operation, refer to the operating manual of the OASE Eco Control system.

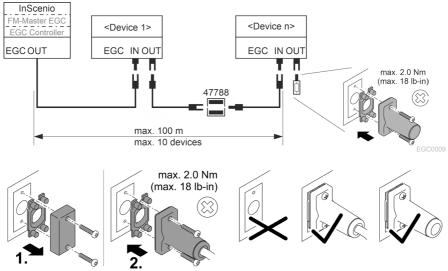


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Integrating the pump in the EGC network

You can integrate the pump in an EGC network. In an EGC network, the control system InScenio FM-Master EGC or InScenio EGC-Controller and all EGC-compatible units are connected with each other via Connection Cable EGC.

- The EGC connection cable is available as an accessory in the lengths 2.5 m (47038), 5 m (47039) and 10 m (47040).
- If the pump is integrated in an EGC network, connecting Eco Control is not possible.
- For information on connection and operation, refer to the operating manual of the OASE InScenio FM-Master EGC or InScenio EGC Controller system.



EGC0003

Commissioning/start-up

NOTE

Never connect the pump to a dimmer. Otherwise the pump will be destroyed.

Switching ON/OFF

- Switching on: Plug the power plug into the outlet. – The unit switches on immediately.
- Switching off: Pull the power plug from the outlet.

Environmental Function Control (EFC)

When started up, the pump automatically performs a pre-programmed self-test (Environmental Function Control (EFC)). The pump detects if it is running dry / blocked or submerged. The pump switches off automatically after approx. 90 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.

Maintenance and cleaning

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.

▶ Only use clear water and a soft brush to clean the unit.

Cleaning the device

Recommendation regarding cleaning:

- Clean the unit as required, but at least twice a year.
- When cleaning the pump, pay particular attention to the impeller unit and the pump housing.
- Pool water or salt water can impair the appearance of the unit. Such impairments are excluded from the guarantee.
- 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

A WARNING

The impeller unit rotates very fast. Do not reach into the openings of the suction socket or pressure socket as there is a risk of severe injury such as loss of limb.

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

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.

NOTE

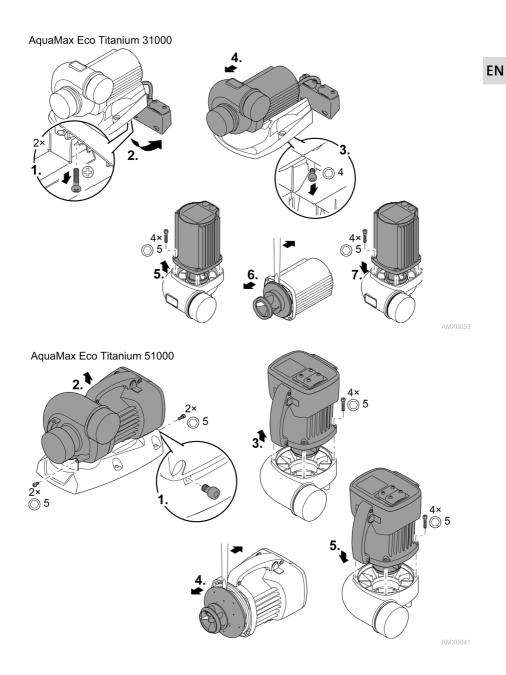
The impeller unit is guided in the motor block by a bearing. This bearing is a wear part and should be changed at the same time as the impeller unit.

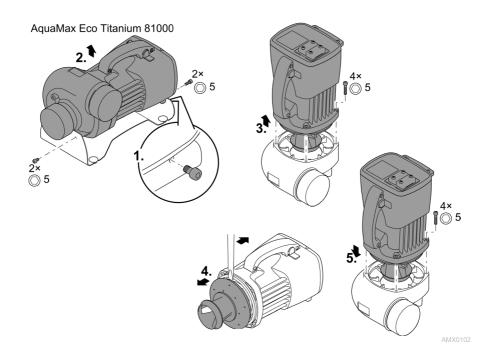
► Changing the bearing requires specialist knowledge and tools. Have the bearing changed by the OASE specialist dealer or send the pump to OASE.

NOTE

If the pump housing jams when it is removed and pushes against the impeller unit, this will damage the impeller unit.

- Position the pump vertically before removing the pump housing. This ensures that the weight of the pump housing can no longer push against the impeller unit.
- ► Carefully pull the motor block off the pump housing, ensuring that it is kept straight.
- ► Proceed equally carefully during assembly.
- Remove the pipes on the suction side and on the pressure side.
- Use a wide-blade screwdriver to carefully lever out the impeller unit if necessary.
- After removing the impeller unit, clean all parts under running tap water.
 Replace a worn or damaged impeller unit.
- Assemble the pump in the reverse order.
 - Tightening torque for all loosened screws: 3 Nm.





Storage/winter protection

The unit is not frost-proof and has to be removed and put into storage if minus temperatures are expected.

How to correctly store the unit:

- Thoroughly clean the unit and renew any damaged parts.
- Store the pump submerged and in a frost-free environment.
- Protect open plug connections from moisture and dirt.

Malfunction remedy

Malfunction	Possible cause	Remedy	
Pump does not start	No mains voltage	 Check the mains voltage. Check supply lines. Switch on the pump. 	
Pump does not transport fluid	Excessively soiled water	Clean the pump. The pump automat- ically switches on again once the mo- tor has cooled down.	
	The impeller unit is blocked	Disconnect the power supply and re- move obstacle. Then switch the pump on again.	
Insufficient delivered quantity	Impeller unit is running slug- gishly	Clean the impeller unit	
	Excessive loss in the pipes due to friction	 Select a larger pipe diameter. Reduce pipe length to the necessary minimum. Avoid unnecessary bends and connection elements. 	
Pump switches off af- ter operating briefly	Excessively soiled water	Clean the pump. The pump automat- ically switches on again once the mo- tor has cooled down.	
	Water temperature too high	Note maximum water temperature of +35°C. The pump automatically switches on again once the motor has cooled down.	
	Ambient temperature too high	Adhere to the maximum permissible ambient temperature. The pump au- tomatically switches on again once the motor has cooled down.	
	The impeller unit is blocked	Disconnect the power supply and re- move obstacle. Then switch the pump on again.	
	Pump has run dry.	Flood the pump. Fully submerge the pump for operation in the pond.	

Technical data

Unit data

Description			AquaMax Eco Titanium		
			31000	51000	81000
Connection voltage		V AC	220 240	220 240	220 240
Mains frequer	псу	Hz	50/60	50/60	50/60
Power consun	nption	W	35 170	70 320	100 730
Control using			EGC	EGC	EGC
Inlet	Connection thread		G2½	G3	G3
	for pipe		DN63	DN75	DN75
Outlet	Connection thread		G2½	G3	G3
	for pipe		DN63	DN75	DN75
Permissible water temperature range (im- mersed installation)		°C	+4 +35	+4 +35	+4 +35
Max. permissible ambient temperature with natural convection (dry installation)		°C	+30	+30	+30
Max. permissible ambient temperature with forced cooling (dry installation)		°C	+40	+40	+40
Max. pump capacity		l/h	31500	51000	81000
Max. pump head		m	3.3	4	5.5
Max. particle size, coarse dirt particles		mm	6	6	6
Max. immersion depth		m	≤4	≤4	≤4
Cable length		m	10	10	10
Dimensions	Length	mm	275	350	390
	Width	mm	175	220	235
	Height	mm	200	245	245
Weight		kg	9.2	16.5	17.5
Weight		kg	9.2	16.5	17.5

Permissible water values

Туре		Fresh water	Pool water	Salt water
pH value		6.8 8.5	7.2 8.3	7.5 8.5
Hardness	DH	8 15	8 15	20 30
Free chlorine	mg/l	<0.3	<0.6	<0.3
Chloride content	mg/l	<250	<250	<22000
Salt content	%	<0.4	<0.4	<4
Overall dry residue	mg/l	<50	<50	<50
Temperature	°C	+4 +35	+4 +30	+4 +28

Wear parts

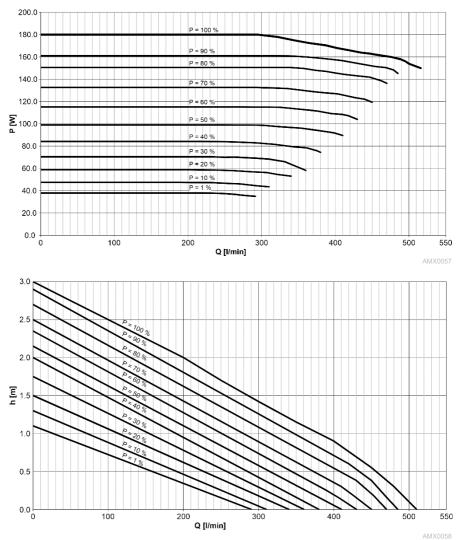
- Impeller unit
- Bearing in the motor block

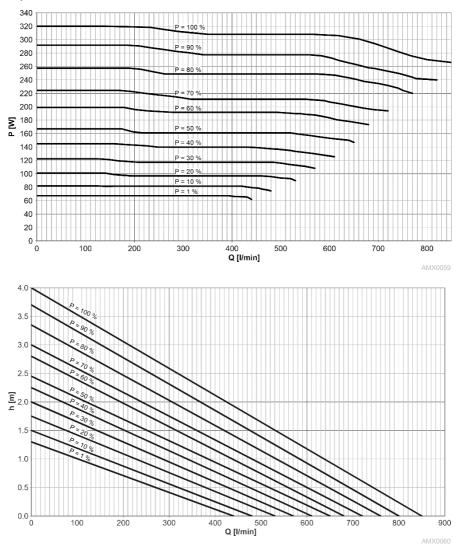
Disposal

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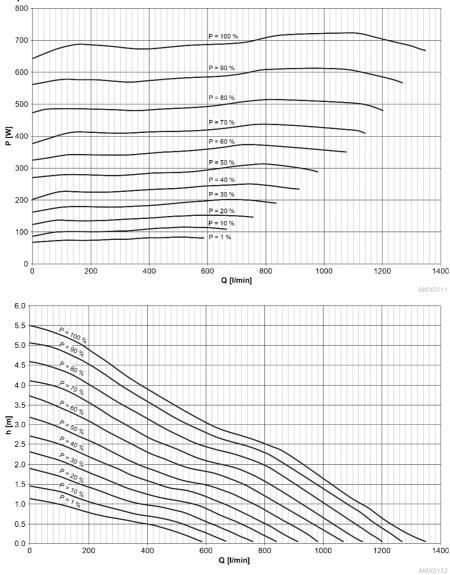
NOTE

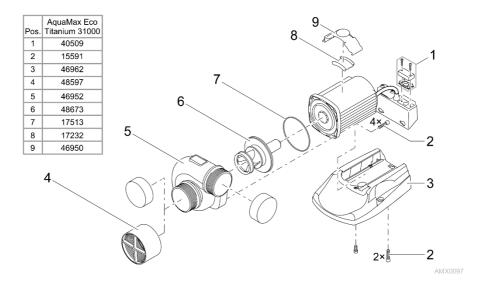
- Do not dispose of this unit with household waste.
- ► Dispose of the unit by using the return system provided for this purpose.
- ▶ Render the unit unusable by cutting the cables.

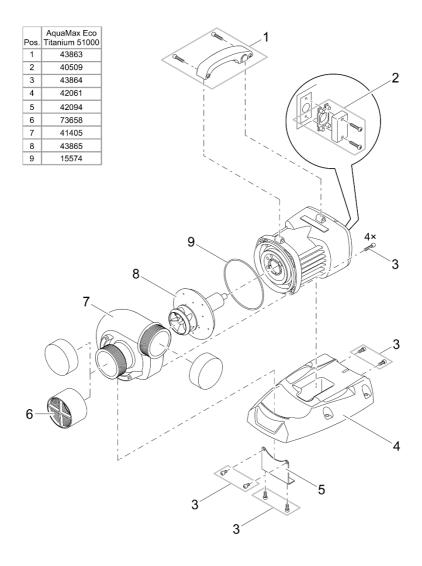


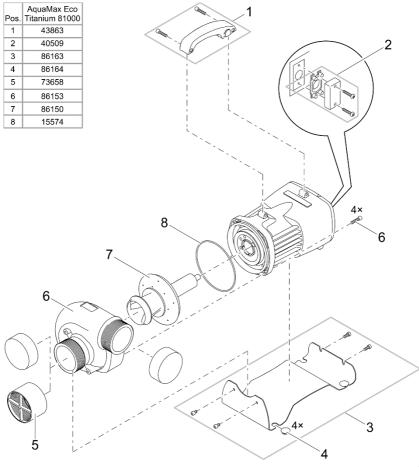


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