



EGO WB

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2 Safety instructions

2.1 General

These installation and operating instructions are a part of the product, and contain basic information that must be observed during installation, operation and maintenance. For this reason it must be read by the installer and the responsible qualified personnel or the operator before performing assembly works. Not only the general safety instructions mentioned in point 2 must be observed, but also the special safety instructions mentioned in the other sections.

A copy of the EU Declaration of Conformity is provided with these instructions. In case of modification, which has not been agreed with us beforehand, the declaration loses its validity.

2.2 Labelling of symbols in the operating instructions



General danger symbol

Warning! Danger of personal injury!
The existing regulations for accident prevention must be observed.



Warning! Danger due to electrical voltage! Danger due to electrical energy must be excluded. Observe the instructions in local or general regulations (e.g. IEC, VDE etc.) and those of the local energy suppliers.

Note

This symbol indicates useful information on handling the product. They draw attention to possible difficulties and are intended to ensure safe operation.

Notes attached directly to the product, such as:

- direction of rotation arrow
- type plate
- marking of connections

must be strictly observed and kept in an easily legible state.

2.3 Personnel qualification

The personnel, who is carrying out assembly, operation and maintenance works must provide appropriate qualifications.

The area of responsibility, competence and supervision of the personnel must be ensured by the operator. If personnel do not provide the required know-how, they must be trained or instructed accordingly.



This device can be used by **children** aged from 8 years and above, as well as by persons with reduced physical, sensory or mental capabilities or lack of experience and know-how, only if they have been given supervision or instruction concerning use of the device in a safe way and if they understand the hazards involved. **Children** must not play with the device. Cleaning and **user maintenance works** must not be carried out by **children** without supervision.

2.4 Dangers, if safety instructions are not observed

Failure to observe the safety instructions may endanger persons, the environment and the system. Failure to comply with the safety instructions will result in the loss of any claims for damages.

Potential dangers include:

- dangers to persons due to electrical and mechanical effects
- failure of important functions of the system
- danger to the environment due to -leakage of liquids as result of a leak
- failure of prescribed repair and maintenance works

2.5 Safety-conscious work

Observe the safety instructions detailed in this manual, along with the current national accident prevention regulations. Should the system operator also have their own internal regulations, these must also be observed.

2.6 Safety instructions for the operator

- Any protection against contact with moving parts must not be removed or disabled, while the system is in operation.
- If liquids leak out, they must be collected or diverted in such a way, that no danger to persons or environment can arise.
- Hazards due to electrical energy must be excluded.
- For this purpose observe the instructions in local or general regulations (e.g. VDE etc.) and those of the local energy suppliers.



- If hazards should occur in the system due to hot or cold parts, these must be provided with a touch guard.
- Highly flammable substances must be kept away from the product.

2.7 Safety instructions for assembly and maintenance works

The system operator is responsible for ensuring that all assembly and maintenance works are carried out by qualified personnel. They must have previously familiarised themselves with the product, using the operating instructions. Conduction of works on the pump is only permitted when the system is shut down.

Ensure that the device is securely disconnected from the power supply. Disconnect the device plug to achieve this.

Prescribed instructions for shutting down the device can be found in the operating instructions. After completion of the works, all protective devices, such as touch guard, must be refitted in accordance with the regulations.

2.8 Unauthorised modification and use of spare parts

Modifications or alterations of the product are only permitted after prior consultation with the manufacturer. Only use original spare parts for repairs. Only accessories approved by the manufacturer can be used. If other parts are used, any liability of the manufacturer for the resulting consequences is excluded.

2.9 Inadmissible operating modes

If the pump is disconnected from the power supply, wait at least 1 minute before switching on again. Otherwise, the pump inrush current limit has no effect, which can lead to functional errors or damage to any connected heating controller. The pump's operational safety can only be ensured if it is used as intended. Point 4 of these installation and operating instructions must be observed. Ensure compliance with the limit values detailed in the technical data.



3 Transport and storage

After receiving the product, inspect it immediately for damage caused in transport. If any transport damage is found, this must be claimed by the carrier.

Incorrect transport and storage can lead to personal injuries or damages to the product.



- Protect the product against frost, moisture and damage during transport and storage.
- Only carry the pump by the pump housing, and never by the connection cable or terminal box.
- If the packaging has been softened by moisture, the pump may fall out and cause several injuries.

4 Intended use

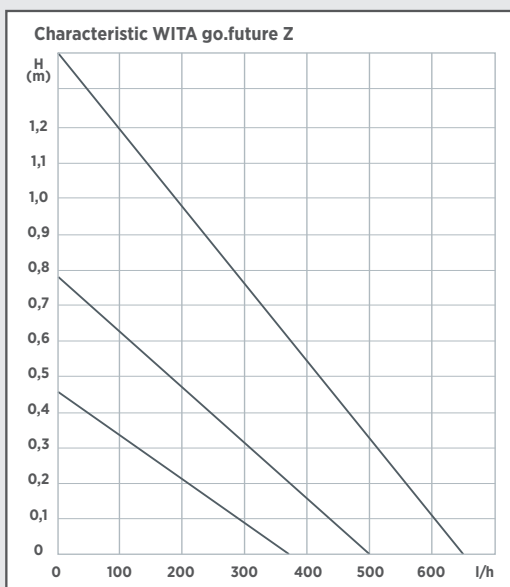
The service water pump is used for circulation in detached and semi-detached houses with a pipe length of up to 50m.



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5 Product data

5.1 Technical data go.future Z



Maximum delivery head	1,4 m
Maximum flow rate	650 l/h
Power consumption P1 (W)	2,5 - 7,0
Supply voltage	1 x 230V 50Hz
Emission sound pressure level	< 40dB(A)
Protection rating	IP 44
Thermal class	TF 60
Ambient temperature	0°C to 40°C
Media temperature	+5 to 65°C
Max. system pressure	10 bar (1MPa)
Permitted pumped media	drinking water to < 20° dH

Caution!

Unpermitted pumped media can destroy the pump and cause personal injuries.

Always observe the manufacturer's instructions and safety data sheets!

Note**5.2 Delivery range**

- Original installation and operating instructions
- Pump
- 2 flat gaskets
- Insulation
- Power plug

6 Pump description

In an average household, around 10 to 20% of electricity consumption is caused by conventional standard pumps. By using the go.future Z, energy consumption can be reduced by up to approx. 80% compared to a conventional circulation pump. The hydraulic performance could be kept at almost the same level as in the case of standard pumps.

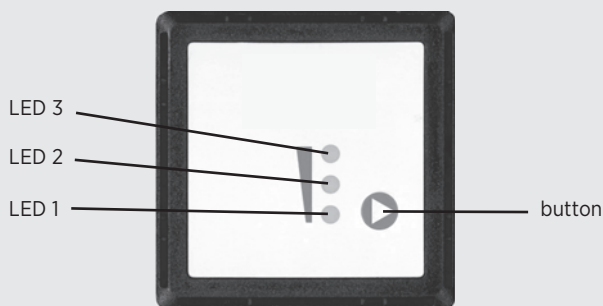
7 Operation

As soon as the pump is connected to the supply voltage, the LEDs in the control panel indicate which level is set.

For level 1 – the first LED lights up, for level 2 – the first and the second LED light up, for level 3 – all three LED's light up.

By pressing the button, the levels are switched through continuously.

The pump can be optimally adapted to the system by selecting of the most suitable characteristic curve. Flashing LEDs signal a fault.



8 Assembly

The circulation pump is installed in the pipe, usually directly in front of the service water storage tank, and in such a way that the water is pumped back from the central tapping point into the storage tank via the circulation pipe. A check valve must be installed on the pump's discharge side (primary side) to prevent pump backflow when the tap is opened. A shut-off valve is installed at the suction point (secondary side) of the pump to simplify maintenance.

A voltage-free assembly must be carried out with the horizontally positioned pump motor (the direction arrow on the pump body indicates the flow direction).

When carrying out thermal insulation works, make sure that the pump motor and the electronics housing are not insulated.

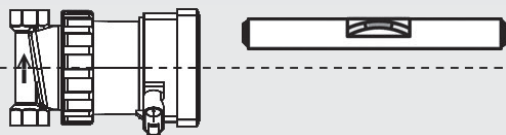
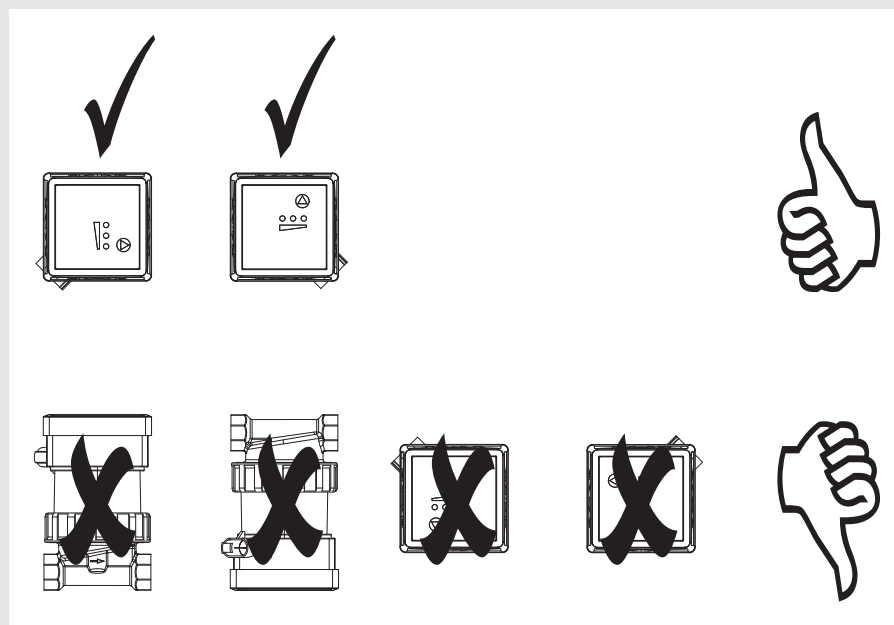


Fig. 1

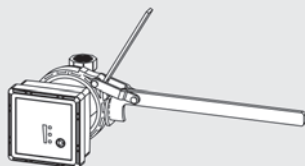
A voltage-free assembly must be carried out with the horizontally positioned pump motor (the direction arrow on the pump body indicates the flow direction).

When carrying out thermal insulation works, make sure that the pump motor and the electronics housing are not insulated.

Observe the permissible assembly positions:



Please note:



Tighten the union nut with 30 Nm torque.
Use filter wrench.

9 Electrical connection

Caution! Danger to life!

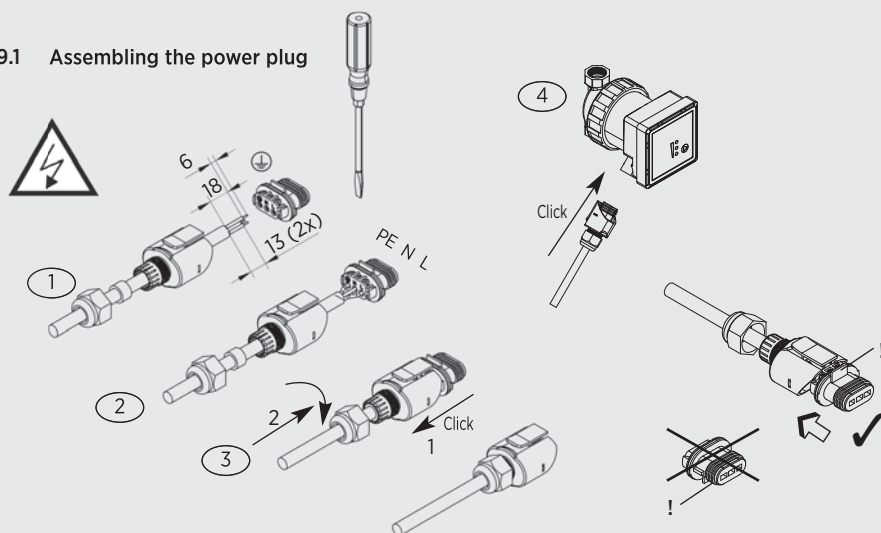


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Improper assembly and improper electrical connection can be life-threatening. Hazards due to electrical energy must be excluded.

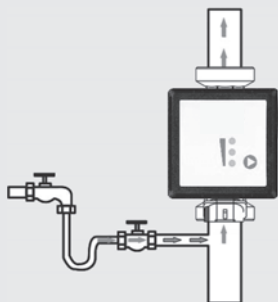
- Assembly and electrical connection may only be performed by qualified personnel and in accordance with the applicable regulations (e.g. IEC, VDE etc.)!
- The type of current and voltage must comply with the specifications on the type plate.
- Observe the regulations of the local energy suppliers!
- Observe the accident prevention regulations!
- Never pull on the mains cable.
- Do not bend the cable.
- Do not place any objects on the cable
- When using the pump in systems with temperature above 90°C, an appropriately heat-resistant connection cable must be used.
- There is a danger of personal injuries due to sharp edges or burrs during performing of assembly works
- Never transport the pump by carrying it by the mains cable.
- There is a danger of personal injuries due to dropping the pump.

9.1 Assembling the power plug



Connect the mains cable to the pump as shown in the figure. **Caution! Mains voltage!** Always observe the necessary safety measures, VDE regulations and local regulations. The cross section of the cable must not be smaller than 0,75 mm². When using fine-wire cables, use wire-end ferrules.

10 Filling and venting the system



Before putting the pump into operation, the system must be thoroughly flushed to ensure that no impurities or foreign bodies remain in the system. Fill and vent the system properly.

To vent the system, the pump must run at its maximum speed. Incomplete venting will result in increased noise during operation of the pump and the system.

Note

Warning! Danger of burns!
Depending on the operating status of the system, the entire pump can become very hot.



11 Service and maintenance

The pump is almost maintenance-free.

If the pump has not been in operation for a long time or if the system is heavily contaminated, the rotor may block. This is indicated by the upper LED flashing.



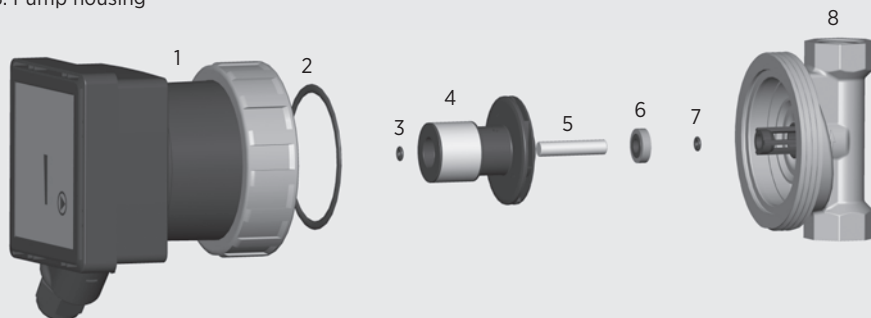
By removing the pump head (loosen the union nut and remove the pump head), the impeller is accessible and can be removed. This allows a blockage to be released and/or the pump to be cleaned. Then tighten the union nut with a torque of 30 Nm.

Before carrying out maintenance, cleaning and repair works, disconnect the system from the power supply and secure it against being switched on again by unauthorized persons.

At high water temperatures and system pressures, wait for the pump to cool down beforehand.

There is a danger of burns!

1. Motor unit
2. O-rings motor unit/pump housing
3. O-ring motor unit/ceramic shaft
4. Rotor unit
5. Ceramic shaft
6. Thrust washer with rubber support! Note assembly direction!
7. O-ring ceramic shaft/pump housing
8. Pump housing



12 Faults, causes and remedies

Maintenance works or repair attempts may only be performed by qualified personnel. Before carrying out maintenance, cleaning and repair works, disconnect the system from the power supply and secure it against being switched on again by unauthorized persons. At high water temperatures and system pressures, wait for the pump to cool down beforehand.

There is a danger of burns!

Error pattern or pump error code	Possible cause	Remedy
The pump does not deliver, the display does not light up	Error in the power supply	Check the mains voltage at the pump. If necessary, switch on the circuit breaker again. Perform a voltage reset (switch off the power supply, wait 1 minute and switch on again). If the error persists, the pump must be replaced.
The pump works but delivers no water	Air in the system	Vent the system (see chapter 10 in operating instructions)
	Slide valve closed	Open the slide valve
Noise in the system	Air in the system	Vent the system (see chapter 10 in operating instructions)
	Pump performance is too high	Check pump settings
The upper LED flashes 5 times and then the pump tries to start again.	Rotor block	Carry out maintenance works (see chapter 11 in operating instructions). If the error persists, the pump must be replaced.
All three LED's flash	Overtemperature	Lower system temperature. Press any key or disconnect the pump from the mains for at least 1 minute. If the error persists, the pump must be replaced.
	Electronic fault	Replace the pump

If the fault cannot be remedied, please contact your specialist dealer.

13 Disposal

Note

The pump and its individual parts does not belong in household waste, but must be disposed of in an environmentally friendly manner! Please use the services of public or private waste management companies for this purpose. A list of materials used in our products can be found in the download area of our homepage (www.wita.de).



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