ALPHA1 model D

Installation and operating instructions

GRUNDFOS

ALPHA1 model D

English (GB)

Installation and operating instructions 4

Original installation and operating instructions

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1. General information

Read this document before you install the product. Installation and operation must comply with local regulations and accepted codes of good practice.

1.1 Hazard statements

The symbols and hazard statements below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.

DANGER
Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.

WARNING
Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.

CAUTION
Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The hazard statements are structured in the following way:

SIGNAL WORD
Description of the hazard
Consequence of ignoring the warning

- Action to avoid the hazard.

1.2 Notes

The symbols and notes below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.

Observe these instructions for explosion-proof products.

A blue or grey circle with a white graphical symbol indicates that an action must be taken.

A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.

If these instructions are not observed, it may result in malfunction or damage to the equipment.

Tips and advice that make the work easier.

1.3 Recommended safety equipment

We recommend the following safety equipment, when handling this product.

Wear safety shoes.

Wear protective gloves.

Wear safety glasses.

2. Product introduction

2.1 Product description

ALPHA1 is a high-efficiency circulator pump fitted with an electronically commutated motor and designed for circulating liquids in heating and air conditioning systems.

ALPHA1 is equipped with intelligent controls and offers three control modes:

- constant pressure
- proportional pressure
- constant curve.

Each mode has three adjustable speed settings.

The toolless installer plug enables a fast and easy electrical connection.

The automatic self-venting ability and dry-running protection ensure quiet operation and reliability of the pump.

The product features robust startup which reduces the risk of blockages from dirt, magnetite and limescale build-up. In the unlikely case of a blocked pump, the motor continuously attempts to start at the highest possible torque, ensuring startup in tough conditions.

The ceramic shaft and bearings experience minimal wear, resulting in a longer lifespan and a reduced likelihood of noise in the system due to increased bearing clearance from wear.

Fault finding is fast and easy by using the error symbols on the pump operating panel.

2.2 Intended use

The pump is designed for circulating liquids in the following:

- **heat production:** boilers, heat pumps and district heating systems.
- **distribution systems:** space heating, for example, radiators, underfloor-heating systems and air-conditioning.

This pump is only for indoor use.

Related information

2.4 Pumped liquids

2.3 Foreseeable misuse

Do not use the pump for flammable, combustible or explosive liquids such as diesel oil, gasoline or similar liquids.

The pump is not a safety component and cannot be used to ensure functional safety in the final appliance.

Do not use the pump in swimming pools or marine areas.

The pump is not suitable for drinking-water applications.

2.4 Pumped liquids

The product is suitable for the following liquids:

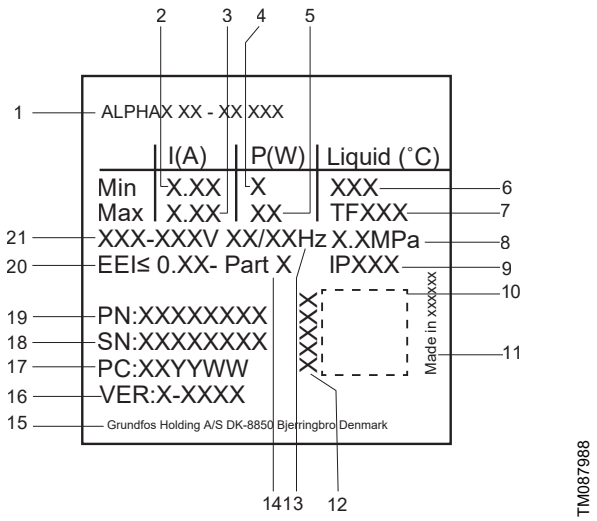
- Clean, thin, non-aggressive and non-explosive liquids, not containing solid particles or fibres.
- In heating systems, the water must meet the requirements of accepted standards on water quality in heating systems, for example the German standard VDI 2035.
- The pH must be between 8.2 and 9.5. The minimum value depends on the water hardness and must not be below 7.4 at 4 °dH (0.712 mmol/l).
- The electrical conductivity at 25 °C must be equal to or larger than 10 µS/cm.
- Mixtures of water with antifreeze media such as glycol or ethanol with a kinematic viscosity lower than 15 mm^2/s (15 cSt).

Related information

2.2 Intended use

2.5 Identification

2.5.1 Nameplate



Nameplate

Pos.	Description
1	Product name
2	Min. current consumption
3	Max. current consumption
4	Min. power consumption
5	Max. power consumption
6	Min. liquid temperature
7	Max. liquid temperature (TF class)
8	Max. operating pressure
9	Enclosure class
10	Data matrix
11	Country of production
12	Combined legal product code
13	Frequency
14	Part of energy efficiency standard
15	Grundfos address
16	Version (model letter + number)
17	Factory code and production code (year and week)
18	Serial number
19	Product number
20	Energy efficiency index (EEI)
21	Rated voltage

Related information

3.1 Inspecting the product

5. Electrical connection

12. Technical data

2.5.2 Type key

Example: ALPHA1 32-40 180 220-240 V

Code	Explanation	Designation
ALPHA1	Grundfos circulator pump	Pump type
32	Nominal diameter (DN) of inlet and outlet ports	Connections
40	Maximum head [dm]	
130	Port-to-port length [mm]	
220-240 V	Voltage	

2.6 Approvals and markings

Any changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

CAUTION
Biological hazard
Minor or moderate personal injury
- This product is not approved for drinking water applications.

3. Receiving the product

3.1 Inspecting the product

CAUTION
Crushing of feet
Minor or moderate personal injury
- Wear safety shoes when handling the product.

CAUTION
Sharp element
Minor or moderate personal injury
- Wear protective gloves.

1. Make sure that the delivered product corresponds to the order.
2. Make sure that the voltage and frequency of the product match the voltage and frequency of the installation site.

Related information

2.5.1 Nameplate

3.2 Scope of delivery

The box contains the following items:

- 1 pump
- 1 power plug
- 2 gaskets
- 1 quick guide.

4. Mechanical installation

WARNING
Electric shock
Death or serious personal injury
- A damaged product must be repaired or replaced by Grundfos or a service workshop authorized by Grundfos.

CAUTION
Crushing of feet
Minor or moderate personal injury
- Wear safety shoes when handling the product.

CAUTION
Sharp element
Minor or moderate personal injury
- Wear protective gloves.

The pump must always be installed with a horizontal motor shaft within ± 5°.

The pump is a non-submersible pump.

4.1 Mounting the pump

Make sure that the pump orientation is correct.

The arrows on the pump housing indicate the flow direction through the pump.

1. Close the inlet and outlet valves.
2. Fit the two gaskets supplied with the pump when you mount the pump in the pipes.
3. Tighten the unions.
4. Make sure to use an allowed control box position.
5. Mount the power plug.

For illustrations of the installation, see the ALPHA1 quick guide.

ALPHA1 quick guide

Related information

4.2 Changing the pump head position

4.2 Changing the pump head position

CAUTION
Hot surface
Minor or moderate personal injury

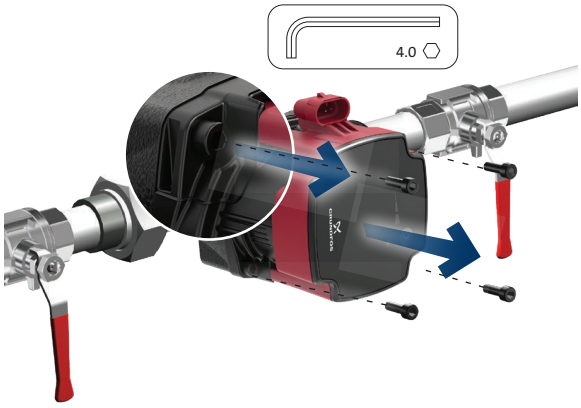
- Position the pump so that persons cannot accidentally come into contact with hot surfaces.
- The pump housing may be hot due to the pumped liquid being scalding hot. Close the isolating valves on both sides of the pump and wait for the pump housing to cool down.

WARNING
Pressurised system
Minor or moderate personal injury

- Before disassembling the pump, drain the system or close the isolating valves on both sides of the pump. The pumped liquid may be under high pressure.

To change the position of the pump head, do as follows:

1. Loosen and remove the four screws.



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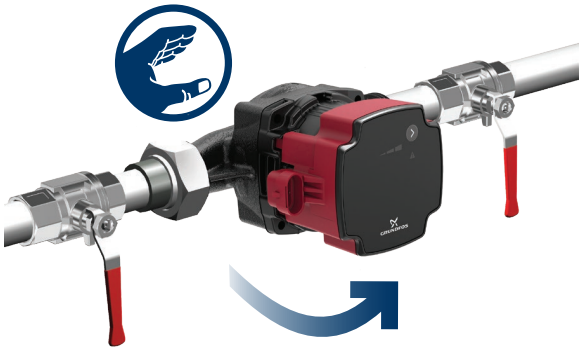
2. Turn the pump head to the desired position.



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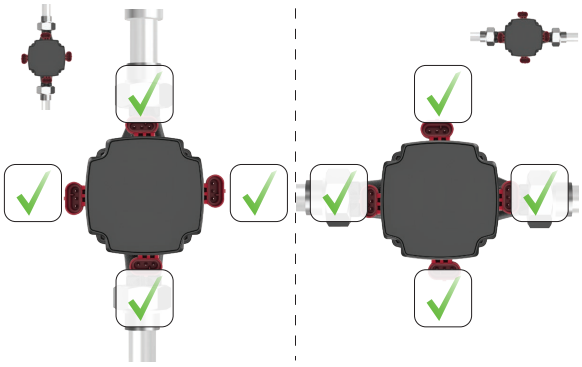
The control box can be turned in steps of 90°.



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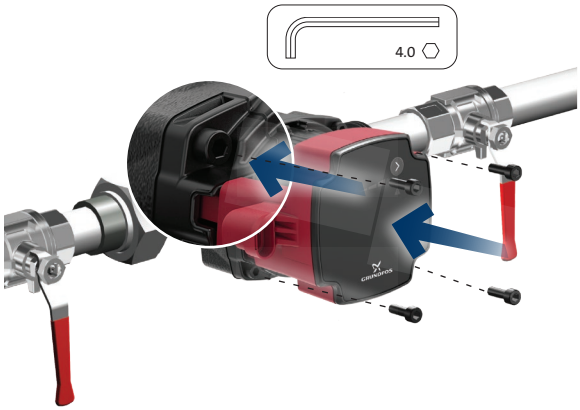
3. Insert and cross-tighten the screws (torque 5 Nm).



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Related information

4.1 Mounting the pump

5. Electrical connection

WARNING
Electric shock
Death or serious personal injury

- Switch off the power supply before you start any work on the product. Make sure that the power supply cannot be switched on accidentally.
- Connect the pump to earth.
- In case of an insulation fault, the fault current may be a DC or pulsating DC. Observe national legislation about requirements for and selection of Residual Current Device (RCD) when installing the product.
- All electrical connections must be carried out by a qualified electrician in accordance with local regulations.

- The pump requires no external motor protection.
- Check that the supply voltage and frequency correspond to the values stated on the nameplate.

Related information

2.5.1 Nameplate

5.1 Assembling the power plug

1. Unscrew the cable gland.

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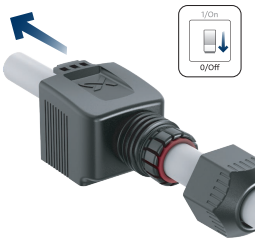
2. Insert the power cable into the cable gland and cover.



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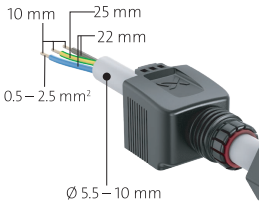
3. Strip the wires according to the measurements below.



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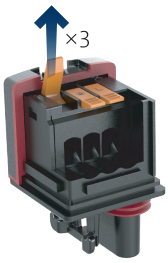
4. Open the wire locks.



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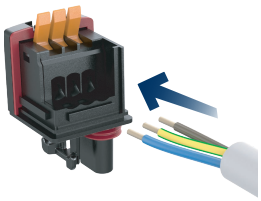
5. Insert the wires according to the colour code. Blue: neutral (N), black or brown: phase (L), yellow/green: earth.



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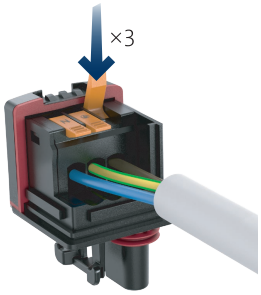
6. Close the wire locks.



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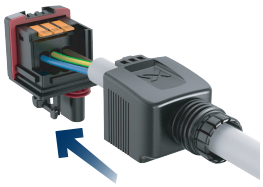
7. Slide the cover in.



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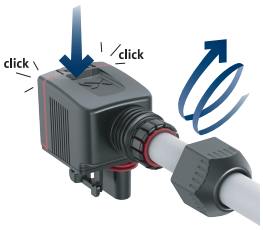
8. Click the cover in place and tighten the cable gland.



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Related information

5.1.1 Rotating the power plug 90°

5.1.1 Rotating the power plug 90°

Before assembling the power plug, the following preparations must be completed:

1. Remove the cover.

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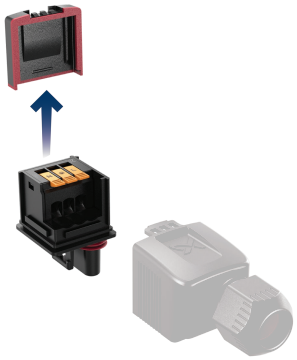
2. Lift the back plate of the plug.



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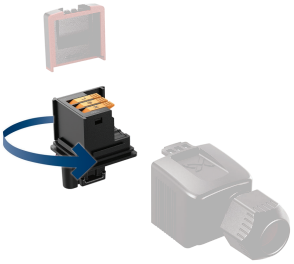
3. Turn the plug 90° left.



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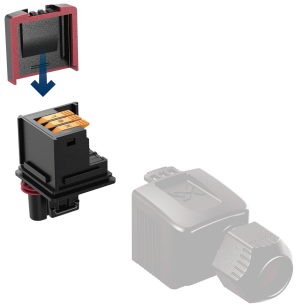
4. Place the back plate in the 90° position.



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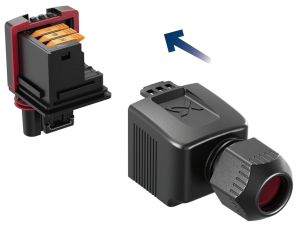
5. Slide the cover back on.



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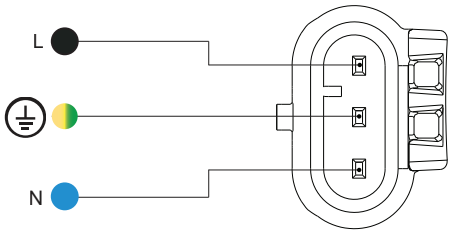
Related information

5.1 Assembling the power plug

5.2 Wiring diagram



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Power plug

Pos.	Description	Wire colour
L	Phase	Black or brown
⏚	Earth	Yellow/green
N	Neutral	Blue

5.3 Control box connections

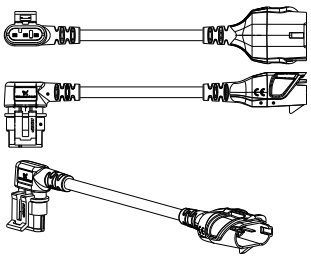
All control boxes have one power inlet on the side.

TM089772

Pos.	Description
A	Power inlet (superseal)

5.4 Accessories

Power cable adapters

	Description	Length [mm]	Product number
	Superseal Molex cable adapter, overmoulded, with rubber cap	150	99165311
	Superseal Volex cable adapter, overmoulded, with rubber cap	150	99165312
	Superseal to ALPHA plug	145	93296229

6. Starting up the product

1. Fill the system with liquid and vent it.
2. Make sure the required minimum inlet pressure is available at the pump inlet.
3. Switch on the power supply.

You can change the settings on the operating panel.

Related information

6.1 Venting the product
7.1 Operating panel

6.1 Venting the product

Small air pockets trapped inside the pump may cause noise when starting up the pump. However, because the pump is self-venting through the system, the noise ceases over a period of time. We recommend venting the pump in new installations or when the pipes have been emptied and refilled with water.

1. Set the control mode to constant curve, setting III.
2. Let the pump run for 10 minutes.

The pump must not run dry.
You cannot vent the system through the pump.

Related information

6. Starting up the product
7.1 Operating panel

6.2 Dry-running protection

The dry-running protection protects the pump against dry running during normal operation.

Normal operation

If dry running is detected during normal operation, the pump retries several times. If dry running continues, the pump stops and the warning and alarm symbol on the display is flashing red four times.

The pump can be restarted by pressing the **Selection** button on the pump. The pump repeats the dry-running detection every 25 hours to verify that the pump is not running dry. Note: The pump can sustain 25 hours of dry-running operation.

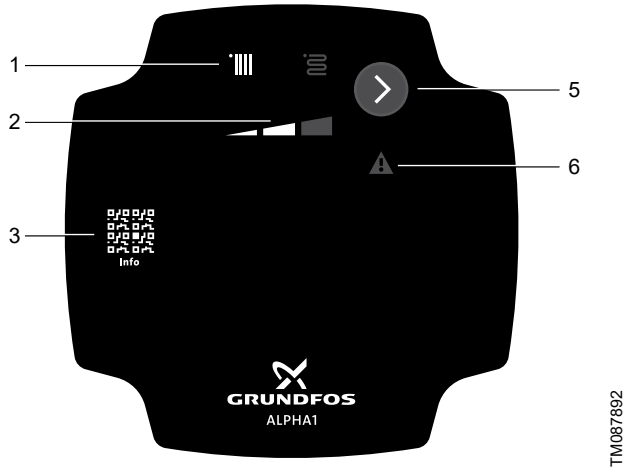
6.3 Robust start

The non-magnetic shaft and bearings reduce the risk of blockages from dirt or magnetite, while the bearing system helps prevent limescale build-up. In the unlikely case of a blocked pump, the motor continuously attempts to start at the highest possible torque, ensuring startup in tough conditions.

7. Control functions

7.1 Operating panel

LEDs and buttons on the pump display.



ALPHA1

Pos.	Description
1	Control mode The LED shows the operating mode of the product.
2	Settings for the selected control mode Use the **Selection** button to toggle between I, II and III.
3	QR code The QR code links to information about the pump and how to set it.
5	Selection button Use this button to select control mode and settings.
6	Warning and alarm A warning is indicated with yellow, and the pump continues operation. An alarm is indicated with red, and the pump stops.

Related information

6. Starting up the product
6.1 Venting the product
7.1.1 Overview of LEDs
8. Control modes
9. Setting of the product

7.1.1 Overview of LEDs

The LEDs indicate the control mode, setting and operating status.

Factory setting

The pump is factory set to proportional pressure, setting II.

Active light fields	Description
	Proportional-pressure mode
	Constant-pressure mode
	Setting I
	Setting II
	Setting III

When the symbols for the constant-pressure and proportional-pressure modes are off, the pump is running in constant-curve mode.

Related information

7.1 Operating panel

8. Control modes

ALPHA1 can be set to the following control modes:

- constant curve
- proportional pressure
- constant pressure

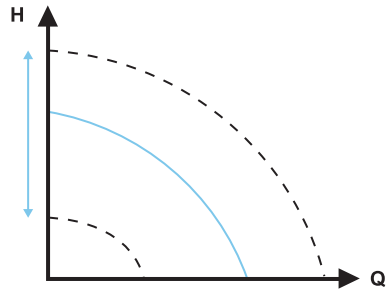
All control modes can be set to pump setting I, II, III and only on the operating panel.

Related information

7.1 Operating panel

8.1 Constant curve

In the constant-curve mode, the pump runs at a constant curve, which means that it runs at constant speed or power. The pump performance follows the selected constant curve. This control mode is especially suitable in applications where the characteristics of the heating system are steady, and the emitters require a constant flow. The selection of the constant-curve setting depends on the characteristics of the heating system and the actual required flow and heat demand.



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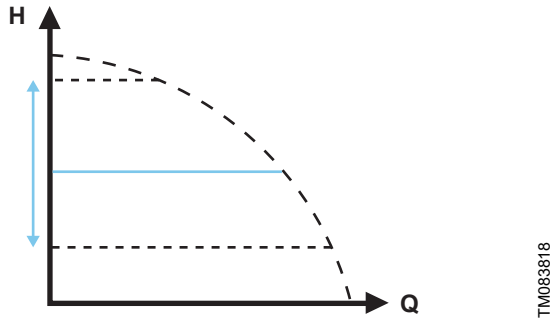
Constant curve

8.2 Constant pressure

In the constant-pressure mode, the pump runs at constant pressure, which means the head (pressure difference) is kept constant, regardless of the heat demand (actual number of open zones). The pump performance follows the selected constant-pressure curve.

This control mode is especially suitable for underfloor heating and applications where the pump is used to supply a common manifold for multiple zones . The head across each zone will remain constant, independent of how many zones request heat. Thus a constant flow in each zone will be maintained, independent of other zones. The selection of the constant-pressure setting depends on the characteristics of the zones in the heating system and the actual heat demand.

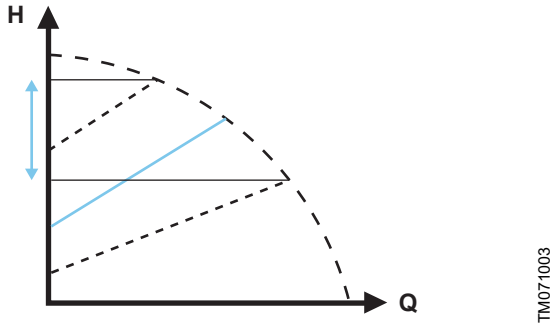


Constant pressure

8.3 Proportional pressure

In the proportional-pressure mode, the pump runs at proportional pressure, which means the head (pressure) is reduced at falling heat demand and increased at rising heat demand. The pump performance follows the selected proportional-pressure curve. This control mode is especially suitable for applications where the heat emitters are equipped with a TRV (thermostatic radiator valve) which controls the flow depending on the room temperature. At increased flow, the losses in the distribution system (pipes and fittings) increase, hence the pumps increase the pressure to compensate and vice versa, hereby maintaining an almost constant differential pressure across the thermostatic radiator valve.

The proportional-pressure mode setpoint depends on the heating system's characteristics and the actual heat demand.



Proportional-pressure settings

9. Setting of the product

The operating panel can be used for the following:

- Selecting proportional pressure (radiator system), constant pressure (underfloor heating system) or constant curve (speed).
- Selecting pump setting (I, II, III) for the three control modes available on the operating panel.

Related information

7.1 Operating panel

10. Service

WARNING
Electric shock
Death or serious personal injury

- All electrical connections must be carried out by a qualified electrician in accordance with local regulations.
- Switch off the power supply before you start any work on the product. Make sure that the power supply cannot be switched on accidentally.
- A damaged product must be repaired or replaced by Grundfos or a service workshop authorized by Grundfos.
- Connect the pump to earth.

WARNING
Pressurised system
Minor or moderate personal injury

- Before disassembling the pump, drain the system or close the isolating valves on both sides of the pump. Slowly loosen the screws and unpressurize the system. The pumped liquid may be scalding hot and under high pressure.

WARNING
Hot surface
Minor or moderate personal injury

- The pump housing may be hot due to the pumped liquid being scalding hot. Close the isolating valves on both sides of the pump and wait for the pump housing to cool down.

Wear safety shoes.

Wear protective gloves.

Wear safety glasses.

10.1 Dismantling the product

Follow the steps below to dismantle the product:

1. Switch off the power supply.
2. Close the inlet and outlet valves.
3. Pull out the power plug.
4. Loosen the unions.
5. Remove the pump from the system.

11. Fault finding

WARNING
Electric shock
Death or serious personal injury

- Switch off the power supply before you start any work on the product. Make sure that the power supply cannot be switched on accidentally.
- A damaged product must be repaired or replaced by Grundfos or a service workshop authorized by Grundfos.

WARNING
Hot surface
Minor or moderate personal injury

- The pump housing may be hot due to the pumped liquid being scalding hot. Close the isolating valves on both sides of the pump and wait for the pump housing to cool down.

CAUTION
Pressurised system
Minor or moderate personal injury

- Before disassembling the pump, drain the system or close the isolating valves on both sides of the pump. The pumped liquid may be scalding hot and under high pressure.

11.1 Fault indication on the pump operating panel

Faults preventing the pump from operating properly are indicated on the operating panel with the warning and alarm symbol turning either yellow or red.

A warning is indicated with yellow. The pump does not perform as expected, and action is required in case of insufficient heating or discomfort.

An alarm is indicated with red and the pump stops. Action is required.

Fault table

Dry running, stop		4 flashes
Blocked pump		1 flashes
Undervoltage (the pump is running)	2 flashes	
Electrical fault	3 flashes	3 flashes

11.2 Resetting alarms and warnings manually

If an alarm or warning is indicated on the display, and the fault has been corrected, press the **Selection** button to reset the alarm or warning.

However, if the fault causing the alarm or warning has not been removed, the alarm or warning will appear again.

11.3 Noise in the system

Cause	Remedy
The flow is too high.	• Lower the flow.
There is air in the system.	1. Note in which operating mode the pump is running. 2. Change the setting to constant curve setting III on the operating panel of the pump. 3. Wait 15 minutes while the pump is venting the system. 4. Set the pump back to the previous setting, noted in step 1.

11.4 Dry running

The warning and alarm symbol flashes red four times, and the pump stops.

Cause	Remedy
Insufficient water in the system or the system pressure is too low.	• Fill the system with the correct amount of liquid to secure the system pressure.

11.5 Blocked pump

The warning and alarm symbol flashes red one time, and the pump stops.

Cause	Remedy
The pump is blocked by impurities.	1. Switch off the pump on the liquid side. 2. Remove the pump head. 3. Remove deposits.

11.6 Undervoltage

The warning and alarm symbol flashes yellow two times, and the pump continues to run.

Cause	Remedy
The supply voltage to the pump is too low.	• Make sure the power supply is within the specified range.

11.7 Electrical fault

The warning and alarm symbol flashes yellow three times, and the pump continues to run.

Cause	Remedy
Other pumps or sources create a flow through the pump.	• Check the system for defective non-return valves, and replace the valves if necessary. • Check the system for correct position of the non-return valves.

11.8 Electrical fault

The warning and alarm symbol flashes red three times, and the pump stops.

Cause	Remedy
Internal fault.	• Replace the pump.

11.9 Overheated boiler

Cause	Remedy
The flow is too low.	• Increase the flow.

12. Technical data

Supply voltage	1 × 220-240 V, ± 6%, 50/60 Hz
Minimum supply voltage	160 VAC (runs with reduced performance)
Motor protection	The pump requires no external motor protection.
Enclosure class	Indoor use only IP44
Temperature class	TF110 to EN 60335-2-51
Inrush current	< 4 A
Insulation class	F
Relative humidity	Max. 95 %
Max. outlet pressure	1.0 MPa (10 bar)
Radio frequency radiation exposure	-6 dB CE/EN55014-1, CE/EN55014-2
Sound pressure level (LP)	< 25 dB(A)
Pump housing	Electrocoated cast iron
Connection type	G 1 1/2, G 2

Product size

	Max. flow rate (Q) [m^3/h]	Max. head (H) [m]
XX-40	2.7	4.0
XX-60	3.5	6.0
XX-80	3.9	8.0

Power usage (approximate)

	Min.	Max.
XX-40	3 W	27 W
XX-60	4 W	45 W
XX-80	4 W	60 W

Liquid temperature

	Max. ambient temperature 55 °C	**Max. ambient temperature 70 °C**
XX-40	2 to 110 °C	2 to 75 °C
XX-60	-10 to +110 °C	-10 to +75 °C
XX-80	-10 to +110 °C	-10 to +75 °C

Inlet pressure

Liquid temperature [°C]	**Min. inlet pressure [bar]**
75	0.05
95	0.5
110	1.08

Related information

2.5.1 Nameplate

13. Disposing of the product

This product or parts of it must be disposed of in an environmentally sound way.

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.
3. Dispose of the waste battery through the national collective schemes. If in doubt, contact your local Grundfos company.

The crossed-out wheelie bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol reaches its end of life, take it to a collection point designated by the local waste disposal authorities. The separate collection and recycling of such products will help protect the environment and human health.

See also end-of-life information at *www.grundfos.com/product-recycling*.

14. Document quality feedback

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