

UPSe 26-99 F, UPSe 26-150 F



UPSe 26-99 F, UPSe 26-150 F

English (GB)	
Installation and operating instructions	4
Limited consumer warranty	25
Limited manufacturer's warranty	26

English (GB) Installation and operating instructions

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 gray circle with a white graphical symbol indicates that an action must be taken.



A red or gray 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.

2. Recommended safety equipment

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



Wear safety shoes.



Wear protective gloves.



Wear safety glasses.

3. Product introduction

3.1 Product description



UPSe 26 is a high-efficiency, variable-speed, wet-rotor circulator fitted with an electronically commutated permanent-magnet motor (ECM). Designed for hydronic HVAC systems in large residential and light commercial buildings, it supports many applications, including space heating, indirect domestic hot water (DHW), snow melting and space cooling. The circulator is compatible with gas and oil-fired boilers as a primary pump, with options for external control via 0–10 VDC or pulse-width modulation (PWM) signals. Suitable for cold-water ground loops in geothermal heat pump applications, the pump is designed to operate in condensing environments where liquid temperature falls below the surrounding ambient temperature and is compatible with a 50/50 water/glycol mixture.

3.2 Intended use

The pump is designed for circulating liquids in the following systems:

- heating systems
- air-conditioning and cooling systems.

You can also use the pump in the following systems:

- ground-source heat-pump systems
- solar-heating systems
- snow- and ice-melting systems.

Always install the product in a dry environment where it is not exposed to drops or splashes of liquid from surrounding equipment or structures, such as condensed water.

The product is intended for indoor installation only. If you install the product in a location where the environmental conditions may vary, follow all local regulations and requirements and make sure to fulfill these requirements as well as the following requirements:

- Comply with the operating conditions and enclosure class specified for the product.
- Provide shielding from direct exposure to sunlight, rain, snow and other environmental factors.
- Do not expose the product to UV radiation.
- Keep the drain holes clear of any blockage.
- Collect and remove condensation build-up.

3.3 Foreseeable misuse

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

The pump is not suitable for drinking-water applications.

3.4 Pumped liquids

WARNING

Electric shock

Death or serious personal injury



- For indoor use only.
- This pump has not been investigated for use in swimming pool or marine areas.

WARNING

Fire and explosion

Death or serious personal injury



- The pump must not be used for the transfer of flammable liquids such as diesel oil, gasoline or similar liquids.

CAUTION

Hot surface

Minor or moderate personal injury



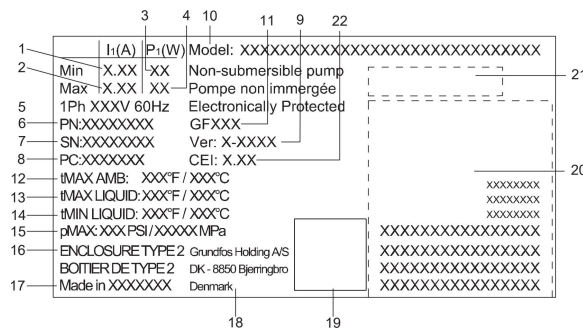
- This pump has been evaluated for use with water only.

The product is suitable for pumping clean, thin, non-aggressive and non-explosive liquids without solid particles or fibers or mineral oils.

If required, 50 % of the volume solution of glycol and water can be used. However, a decrease in pump performance may occur due to an increase in the viscosity of the solution. Contact the manufacturer for information regarding suitability of the pump for pumping other liquids.

3.5 Identification

3.5.1 Nameplate



Pos.	Description
1	Min. current consumption
2	Max. current consumption
3	Min. power consumption
4	Max. power consumption
5	Number of phases, voltage and frequency
6	Product number
7	Serial number
8	Factory code and production code (year and week)
9	Product version
10	Pump model
11	Enclosure class
12	Max. ambient temperature
13	Max. liquid temperature
14	Min. liquid temperature
15	Max. system pressure
16	Enclosure type
17	Country of origin
18	Grundfos address
19	Data matrix
20	Approvals
21	Energy marking area
22	Circulator Energy Index (CEI)

3.5.2 Type key

Example: UPSe 26-99 F 165 AR 230V 9H

Code	Explanation	Designation
UPSe	HVAC	Pump type
26	Medium circulator	Pump size
99	34.1 ft (10.4 m)	Max. head
150	46.3 ft (14.1 m)	Max. head
-	Cast iron	Pump housing
S	Stainless steel	
U	Union	Pipe connection
F	GF 15/26/40/43	
165	6.5 inch (165 mm)	Port-to-port length
A	PWM profile, heating	
C	PWM profile, solar	External signal
R	0-10 VDC	
115V	115 V	Voltage
6H	6 o'clock (right)	
9H	9 o'clock (left)	Control box positions
12H	12 o'clock (top)	

3.6 Approvals



This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules.



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.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3.6.1 For Canada only

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

4. Receiving the product

4.1 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.

4.2 Scope of delivery

The box contains the following items:

- 1 pump
- 1 power connector
- 2 gaskets, 5/32 inch (4 mm) ¹⁾
- 2 gaskets, 7/32 inch (5.5 mm)
- 1 cover for conduit box with 2 screws
- 1 check valve
- 1 safety instruction
- 1 quick guide.

¹⁾ For existing installations where flange-to-flange length is short, for example, 6 3/8 inch.

5. Installation requirements

5.1 Radio frequency radiation exposure information (for Canada and US only)

CAUTION**Radiation**

Minor or moderate personal injury



- This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with a minimum distance of 20 cm (0.66 ft) between the radiator and your body.

6. 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 opening the box and 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 $\pm 5^\circ$.



Wear a safety helmet if the product is installed at or above head level.

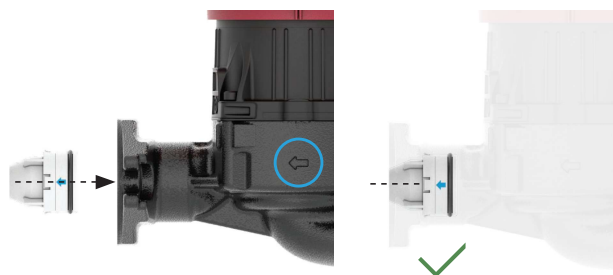


The pump is a non-submersible pump.

6.1 Mounting the product

The arrows on the pump housing and check valve indicate the flow direction through the pump.

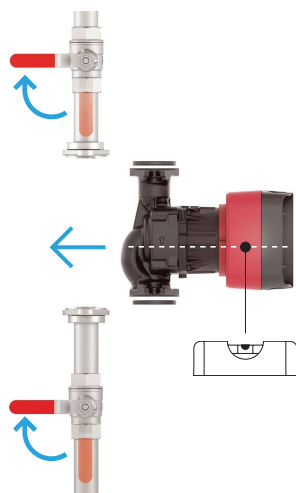
1. Fit the check valve in the outlet.



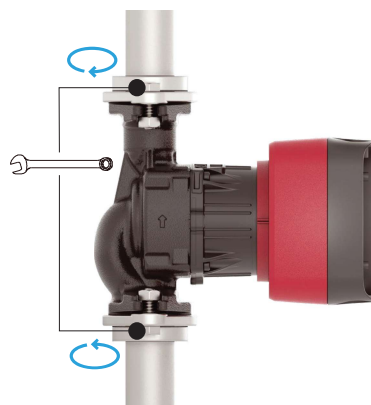
2. Close the isolating valves. Fit the two gaskets supplied with the pump, if applicable, when you mount the pump in the pipe. Make sure the pump is installed with a horizontal motor shaft within $\pm 5^\circ$.



Use thin gaskets in existing installations where the flange-to-flange length is short.

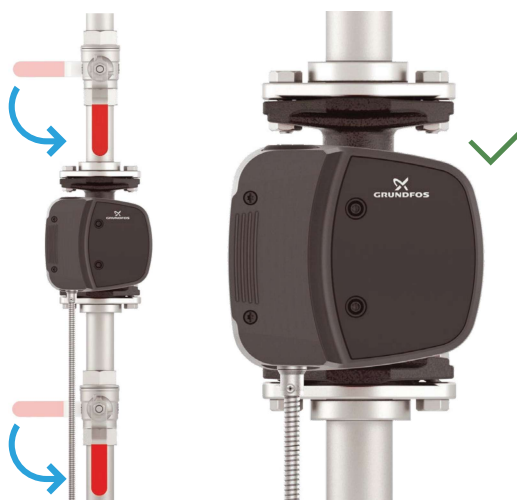


3. Tighten the fittings or flange bolts (torque: 20 lbf-ft).



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4. Open the isolating valves.



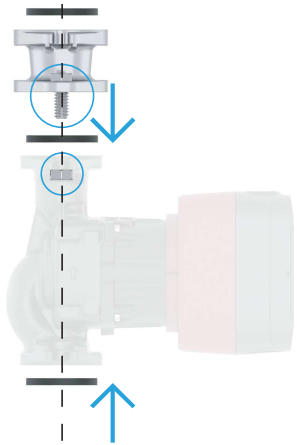
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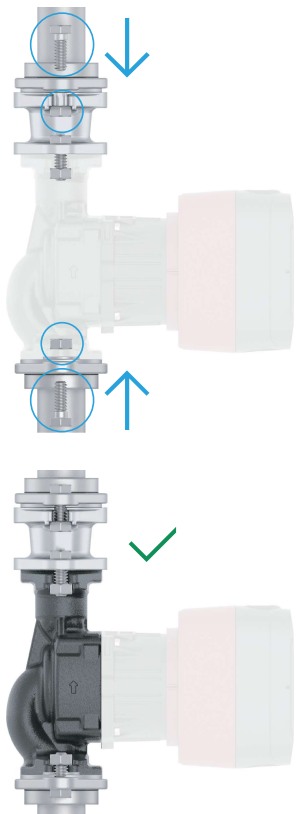
6.2 Adding an extension flange to the product (optional)

In some replacement situations, it may be required to add an extension flange to the product. The total port-to-port length becomes 8 ½ inch.

1. Fit the gaskets supplied with the extension flange when adding it to the pump. Position the extension flange on the pump and ensure that it is fully aligned before tightening the flange bolts.



2. Insert the pump including extension flange in the system. Add the flange bolts to the pipe flange and tighten them.



Related information

[8. Accessories](#)

6.3 Changing the control box position

CAUTION Hot surface

Minor or moderate personal injury

- Position the pump so that persons cannot accidentally come into contact with hot surfaces.

WARNING Pressurised system

Minor or moderate personal injury

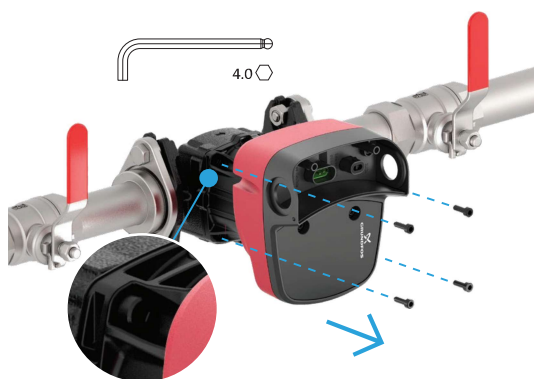
- Before dismantling the pump, drain the system or close the isolating valves on both sides of the pump. The pumped liquid may be scalding hot and under high pressure.



Make sure that the isolating valves are closed before rotating the control box. The pump must be pressureless before the control box is rotated. Drain the system or relieve the pressure inside the pump housing.

To change the position of the control box, do as follows:

1. Loosen and remove the four screws (torque: 4 lbf-ft).



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2. Turn the pump head to the desired position.

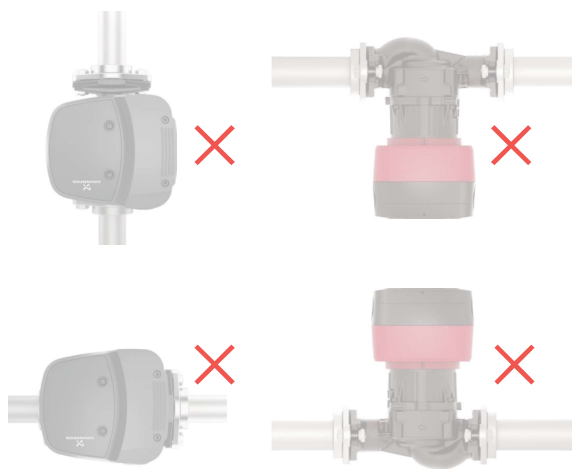


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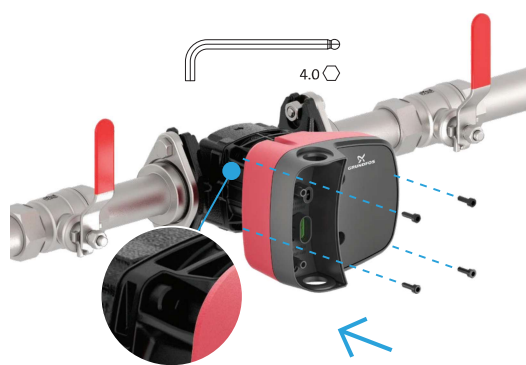
Allowed pump head positions.



TM090449

Incorrect pump head positions.

3. Insert and cross-tighten the screws.



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7. Electrical connection

WARNING

Electric shock

Death or serious personal injury

- Switch off the power supply to the product including the power supply for the signal relays. Wait at least 5 minutes before you make any connections in the terminal box. Make sure that the power supply cannot be switched on accidentally.



- Connect the product only to a properly grounded AC mains supply.
- All electrical connections must be carried out by a qualified electrician in accordance with local regulations.
- Use of the product on a circuit equipment with a GFCI can cause improper operation of the GFCI. Consult an electrician and observe all national, state and local electrical regulations, as applicable.

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

7.1 Wiring the pump

WARNING

Electric shock

Death or serious personal injury



- Do not install mains and signal wires through the same opening in the conduit box.
- Connect the product to the fixed wiring using a flexible conduit system only.
- The terminal block is intended for copper conductors only.

WARNING

Electric shock

Death or serious personal injury



- Always make sure to install a signal connector blind plug if no signal cable is installed.

WARNING

Electric shock

Death or serious personal injury



- Always make sure to install the signal connector blind plug if no external control signal cable is installed.

Note that the conduit connector and flexible conduit are not supplied by Grundfos.

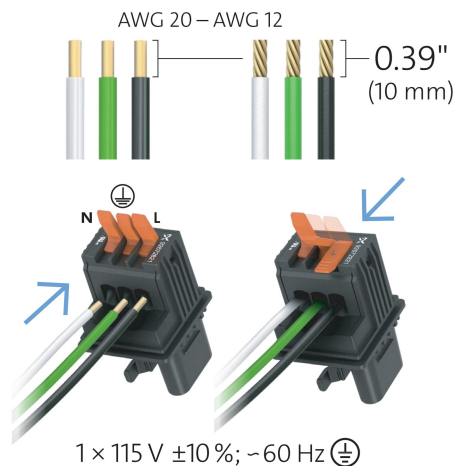
Follow the steps below to wire the pump:

1. Mount the conduit connector, and insert the flexible conduit.



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2. Take the power connector and lift the orange levers, and connect the black wire to L (phase), the white wire to N, and the green wire to $\oplus$. Press the orange levers down to lock the terminals.



TM092693

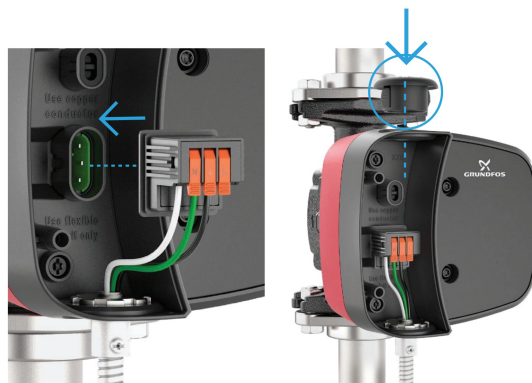


Use only a flexible conduit.



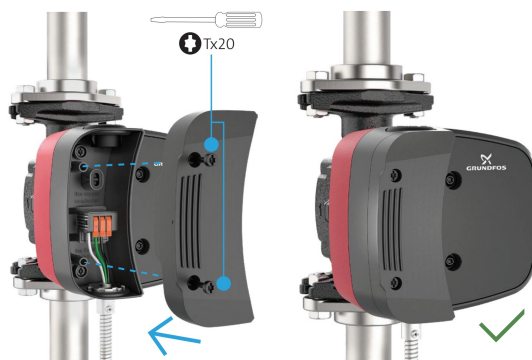
The power connector must be fitted with AWG 20 - AWG 12 solid or stranded wire.

3. Insert the power connector. If no external control signal cable is installed, install the blanking plug and signal connector blind plug.



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4. Mount the cover on the conduit box (torque: 4 lbf-ft).



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5. Mount the insulating shells to the pump housing.

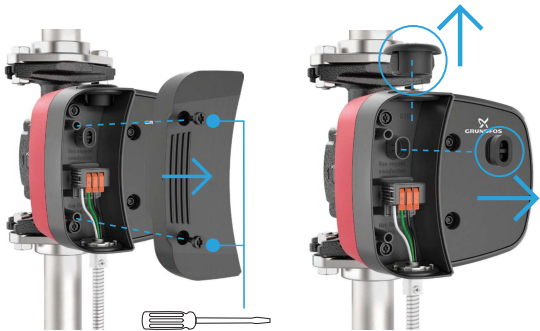


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7.2 Wiring the external signal

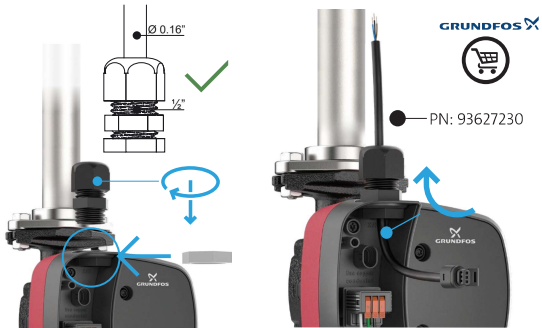
If the circulator is speed controlled via an external signal (PWM or 0-10 V), the following steps are required:

- 1. Loosen the screws and remove the cover. Remove the signal connector blind plug and blanking plug, if applicable.



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- 2. Install a strain relief connector suitable for 0.16" cable, and tighten securely. Guide the external control cable through the cable gland.



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- 3. Connect the signal connector.



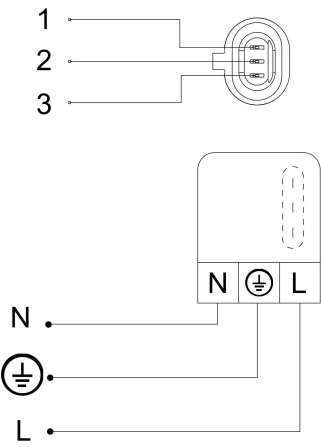
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- 4. Tighten the compression nut. Install the cover by tightening the two screws.



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7.3 Wiring diagram



TM089307

Power and signal plug

Pos.	Description	Wire colour
1	PWM or 0-10 V input	Brown
2	Signal reference	Blue
3	PWM output	Black
L	Phase	Black
	Earth	Green
N	Neutral	White

Related information

8. Accessories

8. Accessories

The following accessories are available.

Set, Extension 2-bolt flange GF26-GF43	Description	Product number
	The extension 2-bolt flange GF26-GF43 is designed to increase the port-to-port installation length of the pump housing from 6 1/2 to 8 1/2", ensuring a seamless replacement of Grundfos UP(S) 43-44, UP43-75, UPS 43-100 and other circulators with 8 1/2" port-to-port length.	93602598

Signal Cable, mini superseal 7 7/8"	Description	Product number
	Signal cable, mini superseal is used for external control of ALPHA 26, UPSe 26 and other products with similar connections.	93627230

- Related information**
- 6.2 [Adding an extension flange to the product \(optional\)](#)
 - 7.2 [Wiring the external signal](#)

9. Starting up the product

CAUTION Radiation

Minor or moderate personal injury



- This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with a minimum distance of 20 cm (0.66 ft) between the radiator and your body.

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.

9.1 Venting the pump

Venting the pump



TM093215

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. Still, 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 zone pump, setting III.
2. Let the pump run for 15 minutes.



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

9.2 Dry-running protection

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

Startup

If water has not been detected before (new pump), the pump does a detection cycle to verify that water is present. If water is not detected during the first cycle, the pump retries several times. If water is still not detected, the pump stops, the warning and alarm symbol on the operating panel flashes red.

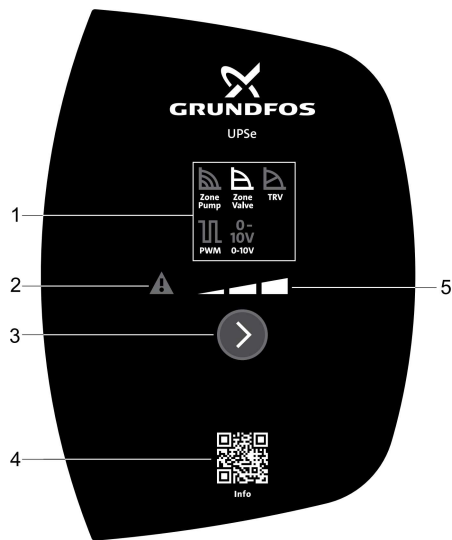
Normal operation

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

The pump can be restarted by pressing the arrow 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.

10. Control functions

10.1 Operating panel



Operating panel

Pos.	Description
1	Control modes
2	Warning and alarm symbol
3	Selection button Use the arrows to toggle between I, II, III.
4	QR code When scanning the QR code, you get access to additional product information and documentation.
5	Setting (I, II, III)

10.2 Indicator lights

The indicator lights indicate the control mode and setting.

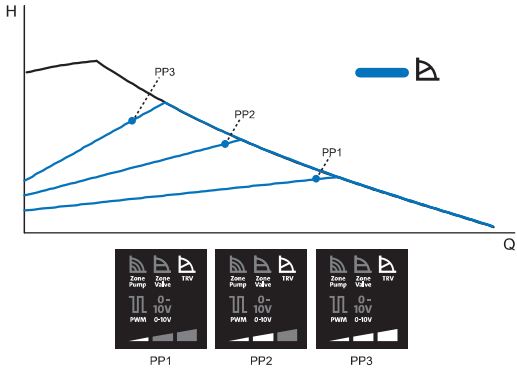
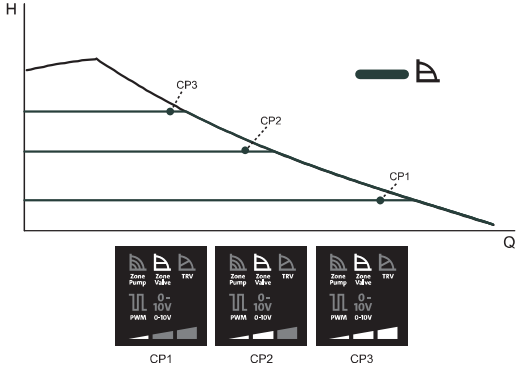
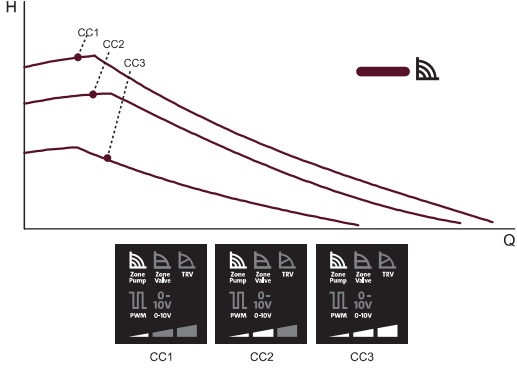
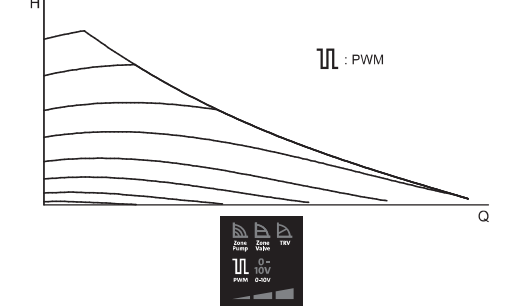
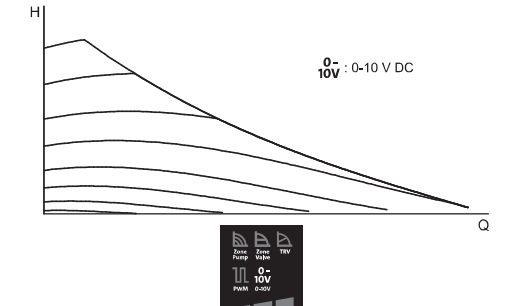
Factory setting

The pump is factory set to constant pressure, setting III.

Active indicator lights	Description
	Constant curve (zone pump)
	Constant pressure (zone valve)
	Proportional pressure (thermostatic radiator valve (TRV))
	External control via PWM signal
	External control via 0-10 V DC signal
	Setting I
	Setting II
	Setting III
	Fault indication (warning = yellow / alarm = red) If the alarm indication is on, the pump is stopped.

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11. Control modes

Active indicator lights	Description
	Proportional pressure (thermostatic radiator valve (TRV)) The pump adjusts the head according to the heat demand. The head is reduced when the heat demand decreases and increased when the heat demand rises. The pump follows the selected proportional-pressure setting: PP1, PP2 or PP3. Typical applications include systems where the pump supplies panel radiators with thermostatic radiator valves (TRVs), as well as systems with multiple fan coils.
	Constant pressure (zone valve) The pump maintains a constant head, meaning the pressure differential is kept constant regardless of the actual flow demand. The pump follows the selected constant-pressure setting: CP1, CP2 or CP3. Typical applications include zoned systems with valves where the pump supplies a common header.
	Constant curve (zone pump), The pump operates on a fixed performance curve, meaning it runs at a constant speed or power level. The pump follows the selected constant-curve setting: CC1, CC2 or CC3. Typical applications include zoned systems, where each zone is served by its own pump, geothermal heat pumps and space cooling systems.
	External control When the circulator is externally controlled, its speed is based on a reference from an external signal, such as 0–10 VDC or PWM. The speed reference signal controls the pump speed from minimum to maximum.
	External control is suitable for systems where the speed of the circulator must be controlled by an external controller, such as a boiler or heat pump.

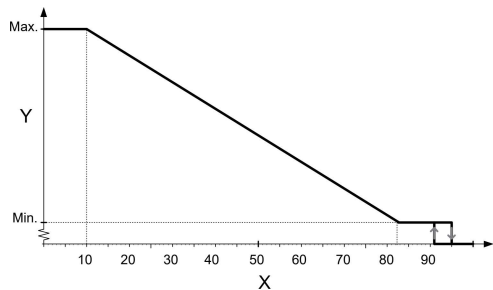
11.1 PWM signal

A PWM (Pulse Width Modulation) signal is used in pumps to control their speed and flow rate efficiently. External PWM control mode can only be selected via Grundfos GO.

11.1.1 Profile A

11.1.1.1 PWM input signal profile A (heating)

At high PWM signal duty cycles, a hysteresis prevents the pump from starting and stopping if the input signal fluctuates around the shifting point. At low PWM signal duty cycles, the pump speed is high for safety reasons. In case a cable breaks when mounted in a system, the pump starts to run at maximum speed. This is suitable for both boilers and heat pumps to ensure that the pump transfers heat even if a cable breaks.



TM049985

PWM input profile A (heating)

Axis	Value
X	Input duty cycle
Y	Speed

PWM input duty cycle	Pump status
PWM signal ≤ 10 %	Max. speed
10 % < PWM signal ≤ 84 %	Variable speed from min. to max. speed
84 % < PWM signal ≤ 91 %	Min. speed
91 % < PWM signal ≤ 95 %	Hysteresis area: on/off
95 % < PWM signal ≤ 100 %	Standby mode: off

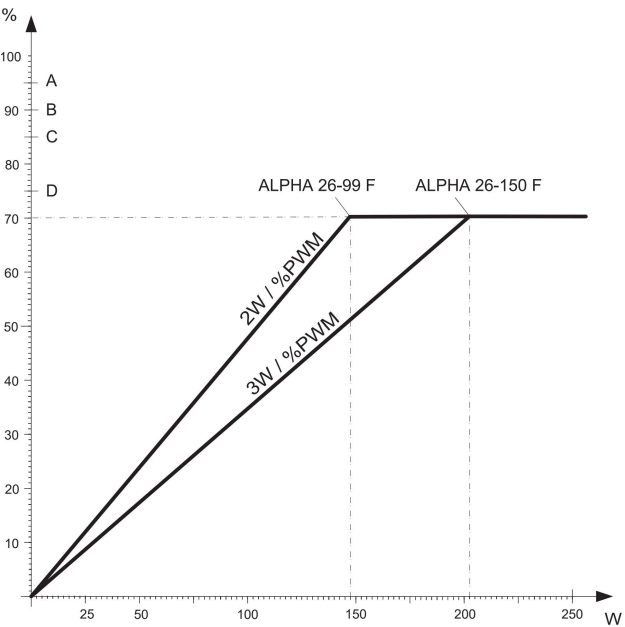
11.1.1.2 PWM feedback signal

The PWM feedback signal offers the same pump information as in bus systems:

- current power consumption
- warning
- alarm
- operating status.

Alarms

Alarm output signals are available because some PWM output duty cycles are dedicated to alarm information.



PWM feedback signal, power consumption

Pos.	Description
A	Standby (stop)
B	Alarm stop: fault, blocked pump
C	Alarm stop: electrical fault
D	Warning

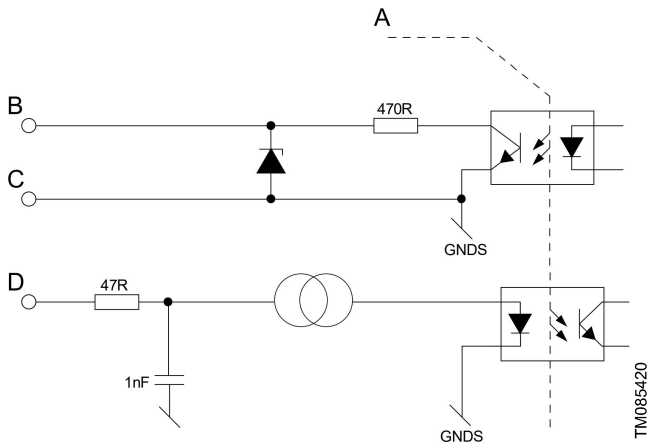
PWM output duty cycle	Pump information
95 %	Standby (stop) by PWM duty cycle
90 %	Alarm, stop, blocked error
85 %	Alarm, stop, electrical error
75 %	Warning
0-70 %	Operating range

Output frequency: 75 Hz ± 5 %.

11.1.2 PWM interface

The PWM interface consists of a galvanically isolated circuit connecting the external control signal to the pump. The interface translates the external signal into a signal type that the microprocessor can understand.

The galvanically isolated interface ensures that the user cannot get into contact with dangerous voltage if the signal wires are touched when the pump is connected to power.



Schematic drawing, equivalent interface

Pos.	Description
A	Galvanic isolation
B	PWM output
C	Signal reference (without connection to protective earth)
D	PWM input

11.1.3 Digital low-voltage PWM signal

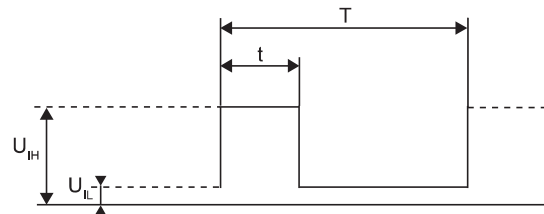
The square-wave PWM signal is designed for a frequency range of 100 to 1500 Hz for the standard input profiles. The PWM signal is used to select the speed (speed command) and as feedback signal. The PWM frequency on the feedback signal is fixed at 75 Hz in the pump.

Duty cycle

$$d \% = 100 \times t/T$$

Example	Rating
$T = 2 \text{ ms}$ (500 Hz)	$U_{IH} = 4\text{--}24 \text{ V}$
$t = 0.6 \text{ ms}$	$U_{IL} \leq 1 \text{ V}$
$d \% = 100 \times 0.6 / 2 = 30 \%$	$4.5 \text{ mA} \leq I_H \leq 10 \text{ mA}$ (depending on U_{IH})

Example



PWM signal

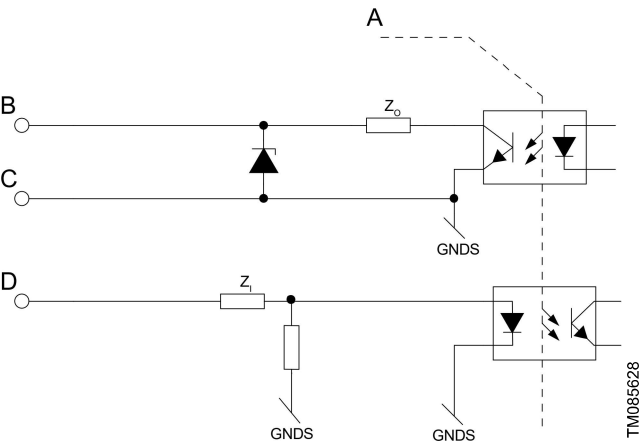
Abbreviation	Description
t	Duration of the pulse signal [s]
T	Total period of time [s]
U_{IH}	High-level input voltage
U_{IL}	Low-level input voltage

11.2 0-10 V

11.2.1 0-10 VDC

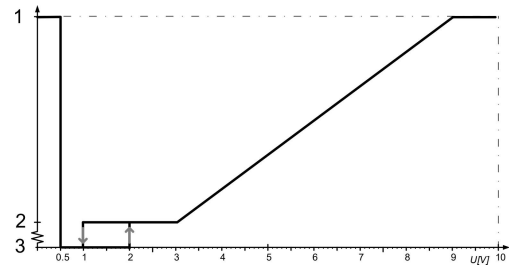
The product can be externally speed-controlled by an analog 0-10 VDC signal.

The pump requires a 0-10 VDC signal on the signal port to control the speed of the pump. The pump will run at its maximum speed if the signal fails (cable break).



Schematic drawing, equivalent interface

Pos.	Description
A	Galvanic isolation
B	Alarm output signal
C	Signal reference (without connection to protective ground)
D	0-10 VDC input



Profile R

Pos.	Description
1	Max.
2	Min.
3	Stop

U [V]	Pump status
0 < U ≤ 0.5	Max. speed
0.5 < U ≤ 1	Standby (stop)
1 < U ≤ 2	Hysteresis
2 < U ≤ 3	Min. speed
3 < U ≤ 10	Speed between min. and max.

11.2.2 Alarm output signal

An alarm output signal is available.

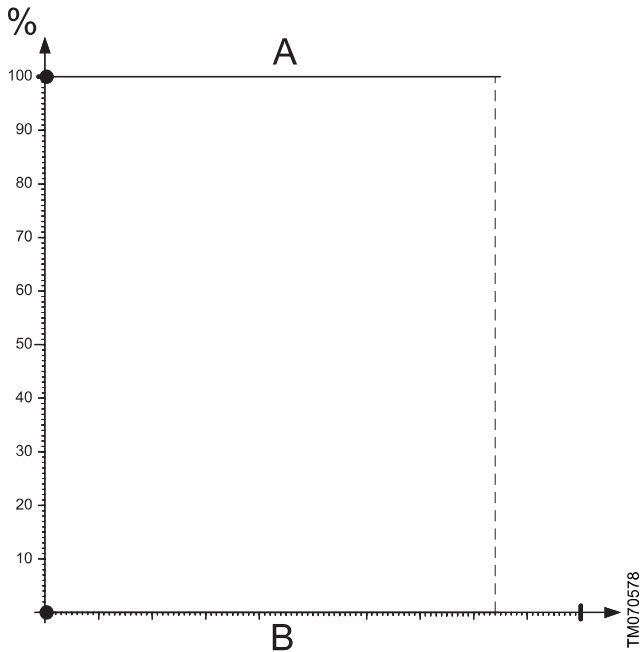
Output transistor status indicates pump operation.

The output signal is activated in the following cases:

- The pump stops when the input signal is between 0.5 and 2 VDC.
- The pump stops because of an alarm and the input signal is between 2 and 10 VDC.

Output signal is not activated in the following cases:

- Pump fault.
- The pump is running (input voltage is above 0.5 VDC).



Output profile 0-10 VDC

Pos.	Alarm output signal %	Description
A	100	Standby (stop) or alarm stop
B	0	Pump is running.

0-10 VDC	Symbol	Value
Operating voltage	U_I	0-10 VDC
Input impedance	Z_I	≥ 50 kΩ
Max. input voltage	-	26 VDC
Continuous short-circuit protection	-	Yes
Reverse polarity protection	-	Yes, limit: 26 V, 20 mA

Alarm output signal

State	Symbol	Value
Off	$Z_{O, off}$	> 100 kΩ
On	$Z_{O, on}$	< 500 Ω

12. 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 and wait at least 5 minutes before you make any connections in the terminal box. 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 product only to a properly grounded receptacle.

WARNING

Pressurised system

Minor or moderate personal injury

- Before dismantling 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.



CAUTION

Sharp element

Minor or moderate personal injury

- Wear protective gloves.



CAUTION

Crushing of feet

Minor or moderate personal injury

- Wear safety shoes when moving the product.



13. Fault finding

WARNING

Electric shock

Death or serious personal injury

- Switch off the power supply and wait at least 5 minutes before you make any connections in the terminal box. 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 dismantling 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.



CAUTION

Radiation

Minor or moderate personal injury

- This equipment complies with FCC and ISSED radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with a minimum distance of 20 cm (0.66 ft) between the radiator and your body.

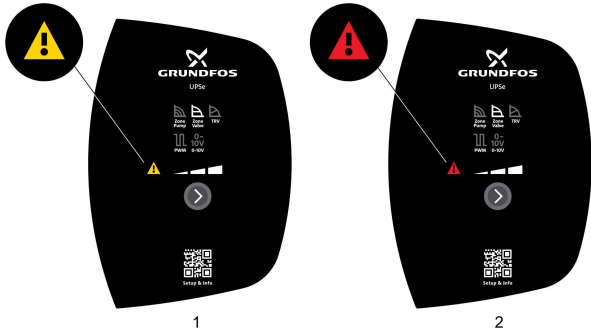


13.1 Fault indication on the pump operating panel.

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 underheating or discomfort.

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



Warning and alarm indication on the operating panel

Pos.	Description
1	Operating panel with a warning (yellow)
2	Operating panel with an alarm (red)

Fault chart

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

13.2 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.

13.3 Blocked pump

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

Cause	Remedy
The pump is blocked by impurities.	- Isolate the pump. - Remove the pump head. - Remove deposits.

13.4 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.

13.5 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.

13.6 Electrical fault

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

Cause	Remedy
Internal fault.	Replace the control box or pump head.

13.7 Overheated boiler

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

13.8 Noise in the system

Cause	Remedy
The flow is too high.	Lower the flow.

14. Technical data

Thermal protection	Electronic (no external protection needed)
Enclosure	Indoor use only
	Type 2
Inrush current	< 3 A
Leakage current	< 3,5 mA
Check valve	Included in the box
Flange-to-flange length	6.5" (165 mm)
	8.5" (216 mm) with extension: PN: 93602598
Operating pressure	Max. 150 psi (10.3 bar)
Pump housing	Electrocoated cast iron
Connection type	2-bolt flange
Connection size	GF 15/26/40/43
Pipe size	3/4" - 2"

Product size

	Max. flow rate (Q) US GPM [m ³ /h]	Max. head (H) ft [m]
UPSe 26-99	43 [9.7]	34.1 ft [10.4 m]
UPSe 26-150	52 [(11.7)]	46.3 ft [14.1 m]

Power consumption

	Min.	Max.
UPSe 26-99	2 W	110 W
UPSe 26-150	2 W	200 W

Liquid and ambient temperature

	Liquid temperature	Ambient temperature
UPSe 26-99	-4 to 230 °F (-20 to 110 °C)	-4 to 150 °F (-20 to 65 °C)
UPSe 26-150	-4 to 212 °F (-20 to 100 °C)	-4 to 140 °F (-20 to 60 °C)

Inlet pressure

Liquid temperature [°C]	Min. inlet pressure [bar]
167 [75]	0.75 [0.05]
203 [95]	7.25 [0.5]
230 [110]	15.7 [1.08]

15. Disposing of the product

WARNING

Magnetic field

Death or serious personal injury



- Persons with a pacemaker or a similar device dismantling this product must exercise caution when handling the magnetic materials embedded in the rotor.

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.



The crossed-out wheeled 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.

16. Document quality feedback

To provide feedback about this document, scan the QR-code using your phone's camera or a QR code app.



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Limited consumer warranty

1. Limited consumer warranty

This Limited Warranty is provided for Consumer Products sold in the United States only and applies to Consumer Transactions as defined in and applicable under the Magnusson-Moss Warranty Act and any other applicable Federal and/or State laws. In case of non-Consumer Products, please refer to Grundfos' warranty terms defined in clause 10 of Grundfos US Terms and Conditions of Sale of Product and Services available at <https://www.grundfos.com/legal/grundfos-customer-terms/usa-grundfos-general-terms-for-sales-of-products-and-services>

This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

New products manufactured by Grundfos are warranted to the original purchaser only and are to be free from defects in design, material and workmanship under normal use and service for no greater than a period of thirty (30) months from the date of manufacture which is set forth on the product's nameplate and on the product's packaging or the minimum period required by the applicable State law. For New Jersey, the applicable period is one year from the date of purchase.

The warranty period for replacement products, parts and components expires thirty (30) months from the original date of manufacture of the product originally purchased, unless a longer period is required under the applicable State law. For New Jersey, the warranty period for replacement products, parts and components expires one year from the original date of purchase of the product, not the date of replacement. Products sold by Grundfos that are manufactured by others are not covered by this warranty.

Note that when purchasing a Grundfos product online, it is important to check the date of manufacture and the duration of the warranty with the seller as the product might no longer be covered under this Limited Warranty.

When a product is subject to this Limited Warranty a purchaser should contact the seller from which it purchased the product to make a claim.

If the seller of a product is no longer in business, the purchaser should contact a Grundfos Authorized Service Partner, which can be found at www.grundfos.com/us under > Support > Contact Service.

As part of making a claim, a purchaser shall return a defective product at the purchaser's cost, to the extent allowed by applicable law, along with proof of purchase and an explanation of the defect, date the defect occurred and circumstances surrounding the defect. For New Jersey there is no prohibition on returning a defective product at a purchaser's cost. If Grundfos is required by applicable State law to pay for the cost of shipment under applicable State law, then a purchaser should contact a Grundfos Authorized Service Partner to arrange for shipment. A purchaser also needs to promptly respond to Grundfos as to any inquiries regarding a warranty claim.

Grundfos' liability under this Limited Warranty to purchaser is limited to the repair or replacement of a product (at Grundfos' decision) that is the sole and exclusive remedy for purchaser to the extent permissible by applicable law. For New Jersey this limitation is permissible.

This warranty does not cover the following: ordinary wear and tear; use of a product for applications for which it is not intended; use of a product in an unsuitable environment; modifications, alterations or repair undertaken by anyone not acting with Grundfos' written authorization; failure to follow Grundfos' instructions, operations manuals, any other guidelines or good industry practice; use of faulty or inadequate ancillary equipment in combination with a product; application of spare or replacement parts not provided or authorized by Grundfos; accidental or intentional damage or misuse of a product.

The time period for making a claim under the implied warranty of merchantability and implied warranty of fitness are limited to the same time period as provided by this warranty to the extent permissible by applicable law. For residents of New Jersey, this limitation is permissible, but note that some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Grundfos shall not be liable for any incidental and consequential damages in connection with a product to the extent permissible by applicable law. For residents of New Jersey, this limitation is permissible, but note that some states do not allow limitations of incidental or consequential damages, so the above limitation may not apply to you.

Limited manufacturer's warranty

1. Limited manufacturer's warranty

This Limited Manufacturer's Warranty outlines applicable coverage and claims procedures for the pumps manufactured by Grundfos (the "Product").

This Limited Manufacturer's Warranty is provided for consumer products sold and used in Canada only and applies to consumer transactions as defined in the applicable provincial and territorial laws. In case of non-consumer products, please refer to Grundfos' warranty terms defined in clause 10 of Grundfos Canada Terms and Conditions of Sale of Product and Services available at: <https://www.grundfos.com/ca/legal/general-terms-and-conditions-of-sales-and-delivery>

This Limited Manufacturer's Warranty provides specific rights and limitations. Some of the limitations may not apply to you, and you may also have other rights that vary from province to province.

Scope of the Limited Manufacturer's Warranty

Subject to the following warranty terms and conditions, Grundfos Canada Inc. of 2941 Brighton Rd, Oakville, ON L6H 6C9, Canada ("Grundfos"), warrants to the original consumer (the "Purchaser") that the new Product manufactured by Grundfos is free from defects in design, material and workmanship under normal use and service for a period of twenty-four (24) months from the date of retail purchase but no greater than a period of thirty (30) months from the date of manufacture which is set forth on the Product's nameplate and on the Product's packaging (the "Warranty Period").

Note that when purchasing a Grundfos Product online, it is important to check the date of manufacture and the duration of the warranty with the seller as the Product might no longer be covered under this Limited Manufacturer's Warranty.

This Limited Manufacturer's Warranty applies exclusively to a new Grundfos Product sold and used in Canada. This Limited Manufacturer's Warranty does not apply to any Product sold "as is" or "sales final". This Limited Manufacturer's Warranty is not transferrable by the original Purchaser. Products sold by Grundfos that are manufactured by others are not covered by this warranty.

The sole and exclusive remedy under this Limited Manufacturer's Warranty is the repair or, at the discretion of Grundfos, the replacement of the Product, as set out below. Defects or damages are not covered by the Limited Manufacturer's Warranty if they are due to:

- ordinary wear and tear;
- use of the Product for an application for which it is not intended;
- installation of the Product in an environment not suitable for the Product;
- any modification, alteration or repair of the Product undertaken by the Purchaser or a third party (not acting on Grundfos' behalf);
- failure to follow Grundfos' instructions, including in the installation manual, operation manual, maintenance manual or service manual;
- installation, commissioning, operation (including the use of the Product or any Grundfos product outside its specifications) or maintenance of the Product other than in accordance with Grundfos installation manual, operation manual, maintenance manual or service manual or with good industry practice;
- use of faulty or inadequate ancillary equipment in combination with the Product;
- the application of spare parts of poor quality (excluding the application of any Grundfos original spare parts);
- accidental or intentional damage or misuse of the Products or services by the Purchaser or a third party (not acting on Grundfos' behalf); or
- the non-compliance of the Purchaser or of the Purchaser's own products with applicable law and regulation.

How to get service under the Limited Manufacturer's Warranty:

When a Product is subject to this Limited Manufacturer's Warranty, the Purchaser should contact the seller from which it purchased the Product to make a claim within 24 months from the date of retail purchase but no later than thirty (30) months from the date of manufacture which is set forth on the Product's nameplate and on the Product's packaging (the "Warranty Notification Period").

If the seller of a Product is no longer in business, the Purchaser should contact Grundfos Service at www.grundfos.com/us under **Support > Contact Service**.

To exercise the rights under this Limited Manufacturer's Warranty, the Purchaser shall return a defective Product at the Purchaser's cost, to the extent allowed by applicable law, along with proof of purchase and an explanation of the defect, date the defect occurred and circumstances surrounding the defect.

The Purchaser is responsible for any expenses for dismounting and mounting the Product and for any and costs related to removal, reinstallation, transportation, and insurance. If Grundfos is required by applicable provincial or territorial law to pay for the cost of transportation, then the Purchaser should contact Grundfos Service Partner to arrange for shipment. The Purchaser also needs to promptly respond to Grundfos as to any inquiries regarding a warranty claim.

Unless requested by Grundfos, the Product may not be disassembled prior to remedy. Any failure to comply herewith will render this Limited Manufacturer's Warranty void.

Grundfos will either arrange the repair of the defective Product under this Limited Manufacturer's Warranty or, at Grundfos' option, provide the Purchaser with a replacement of the defective Product. The replacement unit can be new or remanufactured.

To the extent permissible by applicable law, Grundfos shall not be liable for any incidental and consequential damages or losses of any kind whatsoever arising under, relating to or in connection with the Product, use of the Product or the inability to use the Product.

U.S.A.

Global Headquarters for WU
856 Koomey Road
Brookshire, Texas 77423 USA
Phone: +1-630-236-5500

GRUNDFOS CBS Inc.
902 Koomey Road
Brookshire, TX 77423 USA
Phone: 281-994-2700
Toll Free: 1-800-955-5847
Fax: 1-800-945-4777

GRUNDFOS Pumps Corporation
9300 Loiret Boulevard
Lenexa, Kansas 66219 USA
Tel.: +1 913 227 3400
Fax: +1 913 227 3500

Canada

GRUNDFOS Canada inc.
2941 Brighton Road
Oakville, Ontario
L6H 6C9
Tel.: +1-905 829 9533
Fax: +1-905 829 9512

Mexico

Bombas GRUNDFOS de México
S.A. de C.V.
Boulevard TLC No. 15
Parque industrial Stiva Aeropuerto
Apodaca, N.L. 66600
Tel.: +52-81-8144 4000
Fax: +52-81-8144 4010

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Grundfos Holding A/S
Poul Due Jensens Vej 7
DK-8850 Bjerringbro
Tel: +45 87 50 14 00

