Installation and operating instructions

CMBE

GRUNDFOS

CMBE

English (GB)
Installation and operating instructions 4
Australian cyber security act 25

Original installation and operating instructions

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1. General information

Appliances can be used by persons with reduced physical, sensory, or mental capabilities, as well as persons with a lack of experience and knowledge. This requires that they are given supervision or instruction concerning the use of the appliance in a safe way and that they understand the hazards involved. Cleaning and user maintenance shall not be carried out by children without supervision.

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. Intended use

This product has been evaluated for use with clean water only.

Only use the product according to the specifications stated in these installation and operating instructions.

2.1 Pumped liquids

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

If the water contains sand, gravel or other debris, there is a risk of pump blockage and pump damage.

Please install a filter on the inlet side or apply a floating strainer to protect the pump.

2.2 Cybersecurity

The product must only be connected to protected network subnets with strict access control.

According to the standard EN 18031-1:2024, the RJ45 connector used for connecting to IP networks is considered an exposed network interface, along with the GENIbus TCP protocol used on it, which is considered an exposed service.

2.2.1 Network interfaces and services

In the factory default state, the product exposes the following network interfaces:

Interface	Description
RJ45	Wired Ethernet / IP connectivity

The following services are exposed by the product over its network interfaces in the factory default state.

Interface	Service	Description
RJ45	GENIpro TCP	It is used for connecting the product to a service tool on an engineering workstation. Pairing is required before communication can take place. The GENIpro TCP pairing state is persistent.

3. System sizing

The system in which the pump is incorporated must be designed for the maximum pump pressure.

The pump is by default set to operate until it reaches its maximum pressure.

4. Receiving the product

4.1 Transporting the product

Do not stack the product.

WARNING
Falling objects
Death or serious personal injury

- Secure the product during transport to prevent it from tilting or falling down.

CAUTION
Back injury
Minor or moderate personal injury

- Use lifting equipment.

CAUTION
Crushing of feet
Minor or moderate personal injury

- Wear safety shoes when moving the product.

4.2 Inspecting the product

Before installing the product, do the following:

1. Check that the product is as ordered.
   If the product is not as ordered, contact the supplier.
2. Check that no visible parts have been damaged.
   If any visible parts have been damaged, contact the transport company.

5. Mechanical installation

DANGER
Electric shock
Death or serious personal injury

- 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.

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.

WARNING
Hot liquid
Death or serious personal injury

- To avoid leakage do not overtighten the pipe connections.

CAUTION
Sharp element
Minor or moderate personal injury

- Wear personal protective equipment.

CAUTION
Crushing of feet
Minor or moderate personal injury

- Wear safety shoes when moving the product.
- Use lifting equipment.

CAUTION
Back injury
Minor or moderate personal injury

- Use lifting equipment.

5.1 Lifting the product

Observe local regulations concerning limits for manual lifting or handling. The weight of the product is stated on the nameplate.

CAUTION
Sharp element
Minor or moderate personal injury

- Wear personal protective equipment.

CAUTION
Crushing of feet
Minor or moderate personal injury

- Wear safety shoes when moving the product.
- Use lifting equipment.

CAUTION
Back injury
Minor or moderate personal injury

- Use lifting equipment.

Do not lift the product by the terminal box.

To protect components such as pressure gauge, sensor and tank, Grundfos recommends lifting the product in the same packing it was delivered in.

- Always lift the product by means of a forklift if the pump is fixed on a pallet.
- The product must remain in the packaging until installation.
- Mind the weight of the product. The weight is stated on the nameplate.
- Mind the unbalanced load when you lift the product. Most of the weight is on the motor side of the product.

5.2 Installing the product

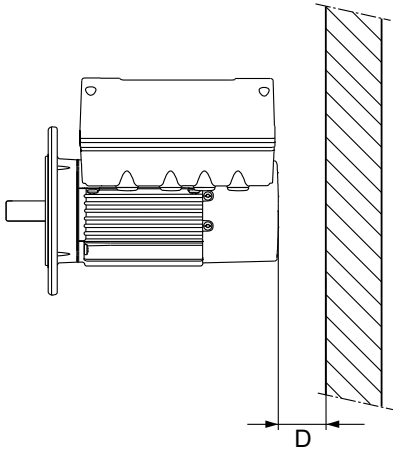
Installation must be carried out by specially trained persons and according to local regulations.

1. Fasten the pump to a solid horizontal foundation by means of screws through the holes in the base plate.
2. Seal the pipe fittings with thread sealing tape.
3. Carefully screw the inlet and outlet connections to the pipe fittings using a pipe wrench or similar tool.
4. Unscrew the drain plug, and pour water into the pump.
5. Screw the drain plug back on again.

6. Check the precharge pressure in the diaphragm tank. The correct precharge pressure is 0.7 times the required outlet pressure (setpoint).
7. Adjust the precharge pressure. We recommend that you use nitrogen gas to refill the tanks.
8. Insert the power plug into the socket, and start the pump.

5.3 Cooling the motor

- Install the motor allowing a distance of minimum 50 mm (D) between the end of the fan cover and the wall or another fixed object.



- Position the product with sufficient space around.
- Make sure that the temperature of the cooling air does not exceed 50 °C.
- Keep cooling fins and fan blades clean.

5.4 Installing the product in moist surroundings

If you install the motor in moist surroundings or areas with high humidity, ensure that the bottom drain hole is open. As a result, the motor becomes self-venting, allowing water and humid air to escape.

5.5 Installing the product outdoors or in areas with high humidity

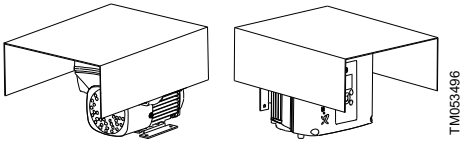
If you install the product outdoors or in areas with high humidity, take the following action to avoid condensation on the electronic components.

To maintain the UL mark, additional requirements apply to the equipment. See the appendix concerning installation in the USA and Canada.

- Provide the product with a suitable cover.

  The cover must be large enough to ensure that the product is not exposed to direct sunlight, rain or snow. Grundfos does not supply covers.

  When fitting a cover to the product, observe the instructions for adequate cooling.



TM053496

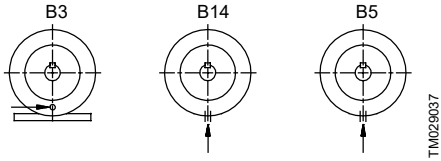
- Open the drain holes in the product.
- Connect the product permanently to the mains supply and activate the built-in standstill heating function.

5.6 Drain holes

The motor has a plugged drain hole on the drive side. The drain hole is placed in the flange on the drive side. You can turn the flange 90° to both sides or 180°.

With the drain hole open, the motor becomes self-venting, allowing water and humid air to escape.

When you open the drain hole, the enclosure class of the motor is lower than standard.



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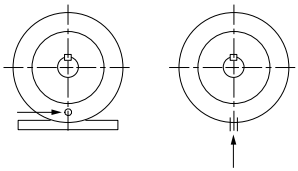

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Drain hole positions

The image on the left shows the drain hole position for motors with feet.

The image on the right shows the drain hole position for motors with the following flange sizes: 56C, 182TC, 213TC, 254TC, 256TC, 284TSC, 286TSC.

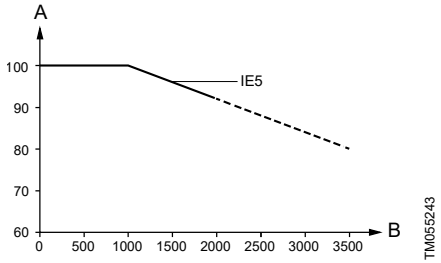
5.7 Installation altitude

The installation altitude is the height above sea level of the installation site.

- Products installed up to 1000 m above sea level can be loaded 100 %.
- The motors can be installed up to 3500 m above sea level.

Motors installed more than 1000 m above sea level must not be fully loaded due to the low density and consequent low cooling effect of the air.

The motor output power (P2) in relation to the altitude above sea level is shown in the graph below.



Derating of motor output (P2) in relation to altitude above sea level

Pos.	Description
x	Altitude [m]

6. Electrical connection

DANGER
Electric shock
Death or serious personal injury

- 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.

WARNING
Electric shock
Death or serious personal injury

- Carry out the electrical connection in accordance with local regulations.

WARNING
Electric shock
Death or serious personal injury

- Check that the power plug delivered with the product is in compliance with local regulations.
- The protective earth of the power outlet must be connected to the protective earth of the product. The plug must therefore have the same PE connection system as the power outlet. If not, use a suitable adapter if allowed by local regulations.
- Provide protection against indirect contact in accordance with local regulations.
- Make sure all earth connections are established correctly before switching on the power supply.
- The user or the installer is responsible for correct earthing and protection according to local regulations.
- The installer is responsible for potential compensation.
- Work must be carried out according to IEC 60204-1:2016.

WARNING
Electric shock
Death or serious personal injury

- Power cables without a plug must be connected to a supply disconnecting device incorporated in the fixed wiring according to local regulations.

WARNING
Electric shock
Death or serious personal injury

- A supply disconnecting device made according to EN 60204-1 5.3.2 must be provided with means permitting it to be locked in the OFF (isolated) position. This device must also be installed in a position according to EN 60204-1, 5.3.4.

Check that the supply voltage and frequency correspond to the values stated on the nameplate.

6.1 Protection against electric shock, indirect contact

WARNING
Electric shock
Death or serious personal injury

- Connect the product to protective earth and provide protection against indirect contact in accordance with local regulations.

Protective-earth conductors must have a yellow and green (PE) or yellow, green and blue (PEN) colour marking.

6.2 Cable requirements

WARNING
Electric shock
Death or serious personal injury

- Comply with local regulations as to cable cross-sections.

Related information

13.6 Cable requirements

6.3 Protection against mains voltage transients

The pump is protected against voltage transients by built-in varistors between the phases and between phases and earth.

6.4 Motor protection

The pump requires no external motor protection. The motor incorporates thermal protection against slow overloading and blocking, TP 211 according to IEC 34-11.

6.5 Residual-current circuit breakers

DANGER
Electric shock
Death or serious personal injury

- 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.

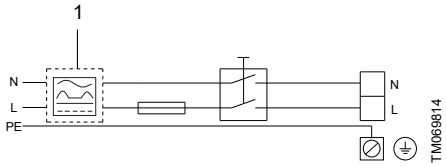
The residual-current circuit breaker must be marked.

Take into account the total leakage current of all the electrical equipment in the installation.

This product may cause a direct current in the protective-earth conductor.

Connection example for single-phase supply

The drawing shows an example of a mains-connected single-phase motor with a main switch, a backup fuse and a residual-current circuit breaker, type B.



Pos.	Description
1	Residual-current circuit breaker, type B
N	Neutral
L	Phase
PE	Protective earth

6.6 Standard functional module, FM 200

6.6.1 Inputs and outputs

The module has these connections:

- two analog inputs
- two digital inputs or one digital input and one open-collector output
- Grundfos Digital Sensor input and output
- two signal relay outputs
- GENIbus connection.

All inputs and outputs are internally separated from the mains-conducting parts by reinforced insulation and galvanically separated from other circuits. All control terminals are supplied with protective extra-low voltage (PELV), ensuring protection against electric shock.

6.6.2 Signal relay 1

LIVE: You can connect supply voltages up to 250 VAC to the output.

PELV: The output is galvanically separated from other circuits. Therefore, you can connect the supply voltage or protective extra-low voltage to the output as desired.

6.6.3 Signal relay 2

PELV: The output is galvanically separated from other circuits. Therefore, you can connect the supply voltage or protective extra-low voltage to the output as desired.

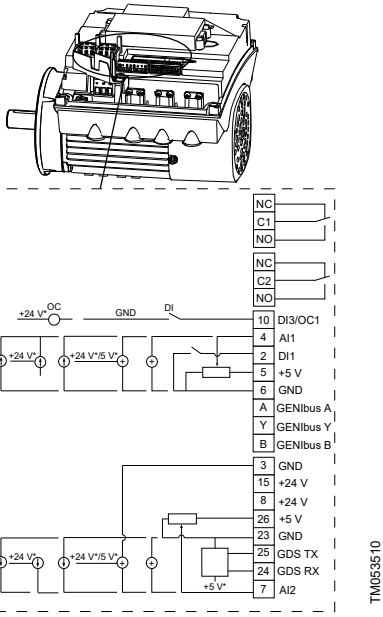
6.6.4 Connection terminals for the mains supply

Phases	Terminals
Single-phase	N, PE, L

6.6.5 Connection terminals for inputs and outputs

DANGER
Electric shock
Death or serious personal injury

- Make sure that the wires to be connected to the connection groups below are separated from each other by reinforced insulation in their entire lengths.



Connection terminals, FM 200

* If you use an external supply source, there must be a connection to GND.

Connection terminals for inputs and outputs, FM 200. See the figure above.

Terminal	Type	Function
NC	Normally closed contact	Signal relay 1 (LIVE or PELV)
C1	Common	
NO	Normally open contact	
NC	Normally closed contact	Signal relay 2 (PELV only)
C2	Common	
NO	Normally open contact	
10	DI3/OC1	Digital input/output, configurable. Open collector: Maximum 24 V resistive or inductive.
4	AI1	External sensor. Pressure sensor: Pressure signal, 0.5 to 3.5 V. Connect the white wire to this terminal.
2	DI1	Digital input, configurable. Digital input 1 is factory-set to be start or stop input where an open circuit results in stop. A jumper has been factory-fitted between terminals 2 and 6. Remove the jumper if digital input 1 is to be used as external start or stop or any other external function.
5	+5 V	Power supply to a potentiometer or sensor
6	GND	Protective earth
A	GENIbus, A	GENIbus, A (+)
Y	GENIbus, Y	GENIbus, Y (GND)
B	GENIbus, B	GENIbus, B (-)
3	GND	Protective earth
15	+24 V	Power supply
8	+24 V	Power supply
26	+5 V	Power supply to a potentiometer or sensor. Pressure sensor: Voltage supply, +5 VDC, PELV. Connect the brown wire to this terminal.
23	GND	Protective earth. Pressure sensor: GND, 0 V. Connect the green wire to this terminal.

Terminal	Type	Function
25	GDS TX	Grundfos Digital Sensor output
24	GDS RX	Grundfos Digital Sensor input
7	AI2	External sensor. Pressure sensor: Temperature signal, 0.5 to 3.5 V. Connect the yellow wire to this terminal.

7. Startup

WARNING
Hot liquid
Death or serious personal injury
- If the temperature is higher than 50 °C, use gloves and glasses when venting the pump to avoid risk of scalding.

WARNING
Biological hazard
Death or serious personal injury
- Flush the pump with clean water before first use.

Do not start the pump until it has been filled with liquid.

Do not start the booster system until all pumps have been properly primed.

After starting up the pump, check the system for leakages.

7.1 Flushing the system

DANGER
Contaminated drinking water
Death or serious personal injury
- Flush the system before starting it or after a standstill period.

Drinking water systems

Hygiene

Grundfos pressure booster systems are functionally tested by running water through the system. During the test, Grundfos continuously surveys the quality of the test water. Since it is not possible to completely drain and dry the system after the test, the system must be rinsed or flushed thoroughly before being taken into use in a drinking water sector due to risk of bacteria growth. This also applies if the system has been shut down for a long period of time. Rinsing and flushing must always be done in accordance with local regulations.

Contaminated drinking water endangers health.

7.2 Supplement to quick guide

These instructions are a supplement to the quick guide for CMBE and CMBE TWIN.

http://net.grundfos.com/qr/i/98388184

7.3 Priming and venting the product

1. Close the isolating valve on the outlet side.
2. Open the isolating valve on the inlet side.
3. Remove the priming plug.
4. Fill the pump with water until a steady stream of liquid runs out of the filling hole.
5. Let all air out of the system.
6. Fit and tighten the priming plug.

7.4 Adjusting the diaphragm tank pressure

1. Check the precharge pressure in the diaphragm tank. The correct precharge pressure is 0.7 times the required outlet pressure (setpoint).

Measure the precharge pressure while the system is pressureless.

2. Adjust the precharge pressure. Always use nitrogen gas to refill the tanks.

7.5 Shaft seal run-in

The shaft seal faces are lubricated by the pumped liquid. A slight leakage from the shaft seal of up to 10 ml per day or 8 to 10 drops per hour may occur. Under normal conditions, the leaking liquid will evaporate. As a result, no leakage will be detected.

When the pump is started for the first time, or when the shaft seal has been replaced, a certain run-in period is required before the leakage is reduced to an acceptable level. The time required for this depends on the operating conditions, that is, every time the operating conditions change, a new run-in period will be started.

Leaking liquid will drain through the drain holes in the motor flange.

Install the product in such a way that leakage cannot cause undesirable collateral damage.

8. Control functions

8.1 Dry-running protection

Dry-running protection automatically stops the pump in case of dry running to prevent damage to the pump.

To build up pressure, the motor will run at maximum speed. When the motor runs at maximum speed, the power consumption will be measured and compared to the expected values for power consumption when the pump is filled with water. In case the measured value is below the expected value, the pump will stop with dry-running alarm.

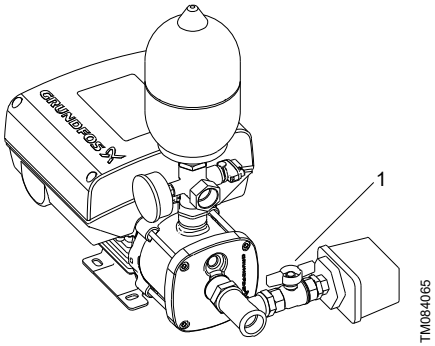
In case of a dry-running alarm, the pump will do the following:

1. The pump stops.
2. The pump will restart 5 times every 10 seconds. If the measured power consumption is still below the expected value, the pump will stop.
3. After 5 minutes, the pump will try to restart again.
4. When water returns, you can either reset the pump manually or wait for the pump to automatically restart after 5 minutes.

8.2 Inlet pressure protection

Some models of the pump are fitted with an adjustable pressure switch as inlet pressure protection. The pressure switch is fitted to the inlet manifold.

The inlet pressure setting may have to be adjusted according to local regulations.



Pos.	Description
1	Pressure switch valve

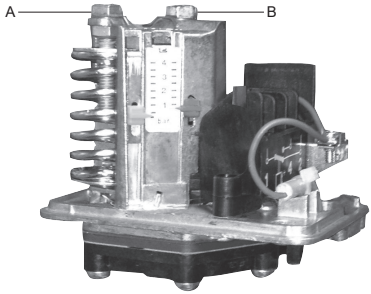
Before starting up the system, make sure that the pressure switch valve is open.

If the inlet pressure is below the lower switching point, the system cannot start.

If the pressure switch has stopped the system during operation due to the inlet pressure being too low, the inlet pressure must increase to a pressure that is higher than the setting of the upper switching point before the system can restart.

If necessary, adjust the lower switching point by turning screw A and adjust the upper switching point to a value higher than the lower switching point by turning screw B. See the figure below.

Do not set the lower switching point to a value below the minimum inlet pressure.

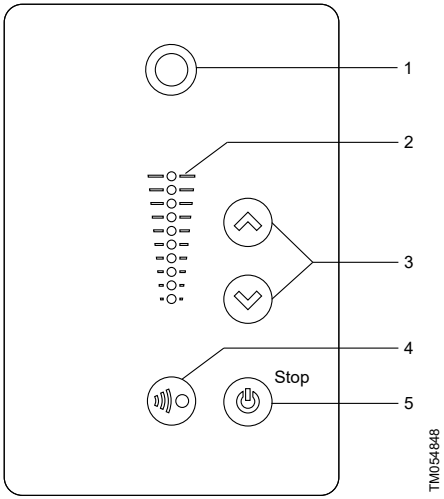


Adjustment of switching points

Pos.	Description
A	Low-pressure switching point
B	High-pressure switching point

9. Setting the product

9.1 Standard operating panel



Pos.	Symbol	Description
1		**Grundfos Eye:** The indicator light shows the operating status of the product.
2	-	Light fields for indication of the setpoint
3		**Up/Down**: The buttons change the setpoint.
4		**Radio communication**: The button enables radio communication with the Grundfos GO and other products of the same type.
5		**Start/Stop**: Press the button to make the product mandatory-ready for operation or to start and stop the product. **Start**: If you press the button when the product is stopped, the product starts if no other functions with higher priority have been enabled. **Stop**: If you press the button when the product is running, the product always stops. When you press the button, the stop icon appears at the bottom of the display.

Related information

14. Further product information

9.2 Setpoint setting

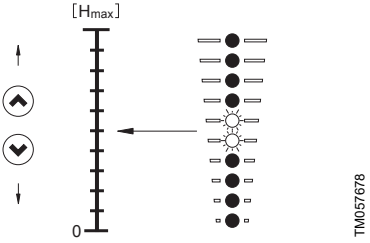
The setpoint must not be set higher than the pressure which the pump can deliver.

If you change the outlet pressure, you must adjust the precharge pressure in the diaphragm tank accordingly.

Set the desired setpoint of the pump by pressing ⌃ or ⌄.

The light fields on the operating panel will indicate the setpoint set.

H_{max}: maximum head (see pump nameplate).



9.3 Start/stop of pump

Start the pump by pressing ⏻ or by continuously pressing ⌃ until the desired setpoint is indicated.

Stop the pump by pressing ⏻. When the pump is stopped, the "Stop" text next to the button will be on. The pump can also be stopped by continuously pressing ⌄ until none of the light fields are on.

If the pump has been stopped by pressing ⏻, it can only be given free to operation by pressing ⏻ again.

If the pump has been stopped by pressing ⌄, it can only be restarted by pressing ⌃.

9.4 Resetting of fault indications

A fault indication can be reset in one of the following ways:

- Briefly press ⌃ or ⌄ on the pump. This will not change the setting of the pump. A fault indication cannot be reset by pressing ⌃ or ⌄ if the buttons have been locked.
- Switch off the power supply until the indicator lights are off.
- With Grundfos GO.

10. Servicing the product

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.

WARNING
Pressurised system
Death or serious personal injury

- Depressurise the system before you start any work on the product. The pumped liquid may be scalding hot and under high pressure.
- Drain the system or close the isolating valves on either side of the pump.

WARNING
Biological hazard
Death or serious personal injury

- When servicing the product, only use Grundfos original spare parts.

10.1 Maintaining the product

To ensure optimal performance and long pump life, check the precharge pressure in the built-in pressure tank once a year and adjust to the correct value, if required.

10.2 Cable requirements

WARNING
Electric shock
Death or serious personal injury

- Comply with local regulations as to cable cross-sections.

Related information

13.6 Cable requirements

10.3 Megging

Megging of an installation incorporating MGE motors is not allowed, as the built-in electronics may be damaged.

10.4 Refilling the diaphragm tank

We recommend that you refill the tanks with nitrogen gas once a year.

11. Taking the product out of operation

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.

WARNING
Pressurised system
Death or serious personal injury

- Depressurise the system before you start any work on the product. The pumped liquid may be scalding hot and under high pressure.
- Drain the system or close the isolating valves on either side of the pump.

12. 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.

WARNING
Pressurised system
Death or serious personal injury

- Depressurise the system before you start any work on the product. The pumped liquid may be scalding hot and under high pressure.
- Drain the system or close the isolating valves on either side of the pump.

WARNING
Biological hazard
Death or serious personal injury

- When servicing the product, only use Grundfos original spare parts.

Fault	Grundfos Eye	Cause	Remedy
Pump does not run.	No lights on.	Power supply failure.	Switch on power supply. Check cables and cable connections for defects and loose connections.
		Fuses blown.	Check cables and cable connections for defects, and replace the fuses.
	Alarm. Motor stopped. Two opposite red indicator lights flashing simultaneously.	Sensor is defective.	Replace sensor.
Pump performance is unstable.	No lights on.	Pump inlet pressure too low.	Check the inlet conditions of the pump.
		Inlet pipe is partly blocked by impurities.	Remove and clean inlet pipe.
		Leakage in inlet pipe.	Remove and repair inlet pipe.
		Air in inlet pipe or pump.	Vent the inlet pipe or pump. Check the inlet conditions of the pump.

Fault	Grundfos Eye	Cause	Remedy
Pump has tried to restart five times and is now stopped.	Alarm. Motor stopped. Two opposite red indicator lights flashing simultaneously.	Pump inlet pressure too low.	Check the inlet conditions of the pump.
		Inlet pipe is partly blocked by impurities.	Remove and clean inlet pipe.
		The foot or non-return valve is blocked in closed position.	Remove and clean, repair or replace valve.
		Leakage in inlet pipe.	Remove and repair the inlet pipe.
		Air in inlet pipe or pump.	Vent the inlet pipe or pump. Check the inlet conditions of the pump.
Pump runs backwards when switched off.	No lights on.	Leakage in inlet pipe.	Remove and repair inlet pipe.
		Foot or non-return valve defective.	Remove and clean, repair or replace valve.
		Foot valve is blocked in completely or partly open position.	Remove and clean, repair or replace valve.

13. Technical data

13.1 Operating conditions

Min./max. operating temperature	-20/+50 °C [1]
Min./max. storage temperature	-30/+60 °C
Liquid temperature	0-60 °C
Sound pressure level	≤ 55 dB(A) [2]
Start/stop frequency	Max. 100/h

1) The motor can operate with the rated power output (P2) at 50 °C, but continuous operation at higher temperatures reduces the expected product life. If the motor is to operate at ambient temperatures between 50 and 60 °C, an oversized motor must be selected. Contact Grundfos for further information.

2) For CMBE TWIN, the sound pressure level may be higher.

Miscellaneous data

Enclosure class	Pump: IP55 Sensor: IP44
Insulation class	F

13.2 Maximum total head

Pump type	Max. head [m]
CMBE 1-44	44
CMBE 3-62	62
CMBE 3-93	93
CMBE 5-62	62
CMBE 10-54	54
CMBE TWIN 3-62	62
CMBE TWIN 3-93	93
CMBE TWIN 5-62	62

13.3 Pressure

Designation	psi	[bar]	[MPa]
Min. inlet pressure (relative) without pressure sensor	Observe local regulations.		
Min. inlet pressure with pressure sensor	Observe local regulations.		
Max. outlet pressure	145	10	1
Max. operating pressure	145	10	1

13.4 Electrical data

Supply voltage	1 × 200-240 V -10 % / +10 %, PE
Frequency	50/60 Hz -2 % / +2 %

13.5 Overload protection

The overload protection of the E-motor has the same characteristic as an ordinary motor-protective circuit breaker. As an example, the E-motor can stand an overload of 110 % of rated current for 1 minute.

13.6 Cable requirements

DANGER
Electric shock
Death or serious personal injury

- Comply with local regulations as to cable cross-sections.
- Use the recommended fuse size.

1 × 200-240 V

Power [kW]	Cross-section	
	[mm²]	[AWG]
0.25 - 2.2	1.5 - 2.5	16-12

Conductor types

Stranded or solid copper conductors.

Conductor temperature ratings

Temperature rating for conductor insulation: 60 °C (140 °F).

Temperature rating for outer cable sheath: -30 °C to 60 °C (-22 to 140 °F).

13.7 Accessories

The following are the communication interface modules intended for use with the product:

Protocol	Communication interface module
GENIbus	CIM 050
LonWorks (Single)	CIM 100
PROFIBUS DP	CIM 150
Modbus RTU	CIM 200
BACnet MS/TP	CIM 300
Modbus TCP, BACnet IP, PROFINET, GiC/GRM IP, EtherNet IP	CIM 500
LonWorks (Multi)	CIM 110

Installing a communication interface module not listed above might affect the compliance level of the product.

14. Further product information

Use either the QR code or the web address below to access the complete installation and operating instructions for the relevant product.

CRE, CRIE, CRNE, SPKE, MTRE and CME pumps

TM056174

http://net.grundfos.com/qr/i/98358864

15. 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.

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*.

16. Document quality feedback

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

Click here to submit your feedback

1. Security updates for Australia

Security updates for this product are provided from March 1, 2026 until March 1, 2028, in line with the requirements set out in the Australian Cyber Security Act 2024 and the Cyber Security Standards for Smart Devices Rules 2025.

For more information regarding the affected products, compliance and vulnerability reporting, see the dedicated Grundfos landing page.

https://www.grundfos.com/au/support/compliance/cyber-security-act

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ECM: 1446833	03.2026

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