

CMBE

Installation and operating instructions



CMBE

English (GB)

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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.



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

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.

2. Safety instructions

Mechanical installation

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.

Electrical connection

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.

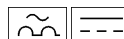
DANGER

Electric shock

Death or serious personal injury



- If national legislation requires a Residual Current Device (RCD) or equivalent in the electrical installation, this must be type B or better, due to the nature of the constant DC leakage current. The RCD must be marked with the following symbols:



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.

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.

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

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

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.

Starting up the product**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 use.

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.

**WARNING****Electric shock**

Death or serious personal injury

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

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.

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.

3. 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.

3.1 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.

4. System sizing



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

The pump is by default set to not stop until it reaches its maximum pressure.

5. Mechanical installation

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 Installation altitude

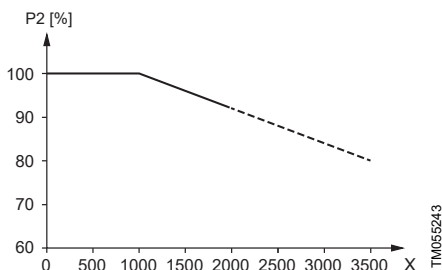
The installation altitude is the height above sea level of the installation site.

- 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

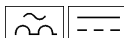
DANGER

Electric shock

Death or serious personal injury



- If national legislation requires a Residual Current Device (RCD) or equivalent in the electrical installation, this must be type B or better, due to the nature of the constant DC leakage current. The RCD must be marked with the following symbols:



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.

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.

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.

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

6.1 Cable requirements

WARNING

Electric shock

Death or serious personal injury



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

See section Cable requirements for more information on cable cross-sections and conductor types.

Related information

[13.4 Cable requirements](#)

6.1.1 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.

6.1.2 Protection against mains voltage transients

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

6.2 Standard functional module, FM 200

6.2.1 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.

6.2.2 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.

6.2.3 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.

6.2.4 Connection terminals for the mains supply

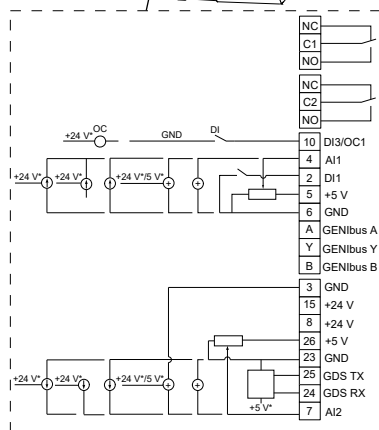
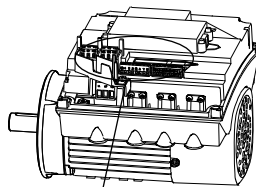
Phases	Terminals
Single-phase	N, PE, L
Three-phase	L1, L2, L3, PE

6.2.5 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.



TM053510

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 fig. Connection terminals, FM 200.

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. External sensor.
4	AI1	 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
		Power supply to a potentiometer or sensor.
26	+5 V	 Pressure sensor: Voltage supply, +5 VDC, PELV. Connect the brown wire to this terminal.

Terminal	Type	Function
Protective earth.		
23	GND	 Pressure sensor: GND, 0 V. Connect the green wire to this terminal.
25	GDS TX	Grundfos Digital Sensor output
24	GDS RX	Grundfos Digital Sensor input
External sensor.		
7	AI2	 Pressure sensor: Temperature signal, 0.5 to 3.5 V. Connect the yellow wire to this terminal.

7. Starting up the product

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.

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.



QR98388184

<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.

1. The pump stops due to dry-running alarm.
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 Pressure switch

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



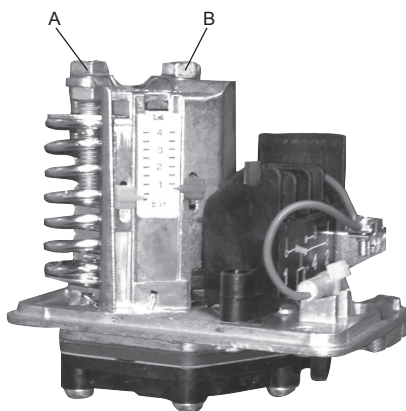
If the inlet pressure is below the lower switching point, the system cannot start.

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 fig. Adjustment of switching points.



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



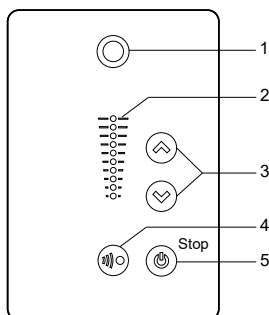
TM058436

Adjustment of switching points

Pos.	Description
A	Low pressure SP
B	High pressure SP

9. Setting the product

9.1 Operating panel



TM054848

Standard operating panel

Pos.	Symbol	Description
1		Grundfos Eye Shows the operating status of the pump. See section Further product information.
2	-	Light fields for indication of setpoint.
3		Changes the setpoint.
4		Enables IR communication with Grundfos GO Remote and other products of the same type.*
5		Makes the pump ready for operation/starts and stops the pump. Start: If the button is pressed when the pump is stopped, the pump will only start if no other functions with higher priority have been enabled. See section Further product information. Stop: If the button is pressed when the pump is running, the pump will always be stopped. When the pump is stopped via this button, the "Stop" text next to the button will be on.

* CME Boosters cannot communicate via radio.

Related information

14. Further product information

9.2 Setpoint setting

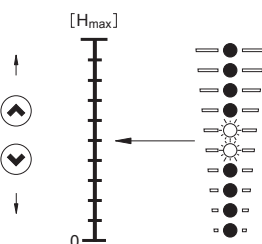


The setpoint must not be set higher than the pressure which the pump can deliver.

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).



TM057678

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 Remote.

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.

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.

10.1 Cable requirements

WARNING

Electric shock

Death or serious personal injury



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

See section Cable requirements for more information on cable cross-sections and conductor types.

Related information

[13.4 Cable requirements](#)

10.2 Megging



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

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.

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

13.1.1 Maximum total head

Pump type	Max. head[m]
CMBE 1-44	44
CMBE 1-75	75
CMBE 3-30	30
CMBE 3-51	51
CMBE 3-62	62
CMBE 3-93	93
CMBE 5-62	62
CMBE 10-54	54

13.1.2 Pressure

	[bar]	[MPa]
Min. inlet pressure (relative) without pressure switch	-0.1	-0.01
Min. inlet pressure with pressure switch	1	0.1
Max. outlet pressure	10	1
Max. operating pressure	10	1

13.1.3 Ambient temperature during storage and transportation

-30 to +60 °C.

13.1.4 Ambient temperature during operation

-20 to +50 °C.

The motor can operate with the rated power output (P2) at 50 °C, but continuous operation at higher temperatures will reduce 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.

See section Installation altitude.

Related information

[5.1 Installation altitude](#)

13.1.5 Liquid temperature

0-60 °C.

Heat protection:

> 80 °C: The pump will stop.

< 50 °C: The pump will start automatically.

13.1.6 Sound pressure level

≤ 55 dB(A).

13.1.7 Start/stop frequency

Max. 100/h.

13.2 Supply voltage

1 x 220-240 V - 10 %/+ 10 %, 50/60 Hz - 2 %/+ 2 %, PE.

13.3 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.

13.4 Cable requirements

1 x 200-230 V

Power [kW]	Cross-section	
	[mm ²]	[AWG]
0.25 - 1.5	1.5 - 2.5	16-12

3 x 380-500 V

Power [kW]	Cross-section	
	[mm ²]	[AWG]
0.25 - 2.2	1.5 - 2.5	16-12
3.0 - 4.0	2.5 - 4	12-11

3 x 220 V, 3 x 380-500 V

Power [kW]	Cross-section	
	[mm ²]	[AWG]
1.1 - 1.5	1.5 - 2.5	16-12
2.2 - 4.0	2.5 - 4	12-11

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: 75 °C (167 °F).

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



TV0056174

grundfos.com/E-pump1-manual

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 wheellie 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.

EC/EU declaration of conformity

GB: EC/EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products CMBE, CMBE TWIN, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EC/EU member states.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky CMBE, CMBE TWIN, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DK: EF-/EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne CMBE, CMBE TWIN som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EF-/EU-medlemsstaternes lovgivning.

ES: Declaración de conformidad de la CE/UE

Grundfos declara, bajo su exclusiva responsabilidad, que los productos CMBE, CMBE TWIN a los que hace referencia la siguiente declaración cumplen lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la CE/UE.

FR: Déclaration de conformité CE/UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits CMBE, CMBE TWIN, auxquels se réfère cette déclaration, sont conformes aux Directives du Conseil concernant le rapprochement des législations des États membres CE/UE relatives aux normes énoncées ci-dessous.

HR: EC/EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi CMBE, CMBE TWIN, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EC/EU-a.

IT: Dichiarazione di conformità CE/UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti CMBE, CMBE TWIN, ai quale si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri CE/UE.

BG: Декларация за съответствие на ЕС/ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите CMBE, CMBE TWIN, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕС/ЕО.

DE: EG-/EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte CMBE, CMBE TWIN, auf die sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EG-/EU-Mitgliedsstaaten übereinstimmen.

EE: EÜ/ELi vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode CMBE, CMBE TWIN, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ/EL liikmesriikides.

FI: EY-/EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteet CMBE, CMBE TWIN, joita tämä vakuutus koskee, ovat EY-/EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

GR: Δήλωση συμμόρφωσης ΕΚ/ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα CMBE, CMBE TWIN, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΚ/ΕΕ.

HU: EC/EU megfeleléségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) CMBE, CMBE TWIN termékek, amelyekre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

LT: EB/ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiamo, kad produktai CMBE, CMBE TWIN, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl EB/ES šalių narių įstatymų suderinimo.

LV: EK/ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti CMBE, CMBE TWIN, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par EK/ES dalībvalstu normatīvo aktu tuvināšanu.

NL: EG-/EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten CMBE, CMBE TWIN, waarop de onderstaande verklaring betrekking heeft, in overeenstemming zijn met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EG-/EU-lidstaten.

PL: Deklaracja zgodności WE/UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty CMBE, CMBE TWIN, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

PT: Declaração de conformidade CE/UE

A Grundfos declara sob sua única responsabilidade que os produtos CMBE, CMBE TWIN, aos quais diz respeito a declaração abaixo, estão em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da CE/UE.

RO: Declarația de conformitate CE/UE

Noi Grundfos declarăm pe propria răspundere că produsele CMBE, CMBE TWIN, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre CE/UE.

RS: Deklaracija o usklađenosti EC/EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod CMBE, CMBE TWIN, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EC/EU.

RU: Декларация о соответствии нормам ЕЭС/ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия CMBE, CMBE TWIN, к которым относится нижеприведённая декларация, соответствуют нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕЭС/ЕС.

SE: EG-/EU-försäkrän om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkterna CMBE, CMBE TWIN, som omfattas av nedanstående försäkrän, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EG-/EU-medlemsstaternas lagstiftning som listas nedan.

SI: Izjava o skladnosti ES/EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek CMBE, CMBE TWIN, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic ES/EU.

SK: EC/EU vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty CMBE, CMBE TWIN na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zbliženie právnych predpisov členských štátov EC/EU.

TR: EC/AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan CMBE, CMBE TWIN ürünlerinin, EC/AB Üye ülkelerinin direktiflerinin yakınlştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifiyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

UA: Декларація відповідності директивам EC/EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби CMBE, CMBE TWIN, до яких відноситься нижченаведена декларація, відповідають директивам EC/EU, переліченим нижче, щодо тотожності законів країн-членів ЄС.

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 CMBE, CMBE TWIN 系列，其制造和性能完全符合以下所列欧盟委员会指令。

ID: Deklarasi kesesuaian Komunitas Eropa/Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk CMBE, CMBE TWIN, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan berikut ini serta sedapat mungkin sesuai dengan hukum negara-negara anggota Komunitas Eropa/Uni Eropa.

NO: EFs/EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktene CMBE, CMBE TWIN som denne erklæringen gjelder, er i samsvar med styrets direktiver om tilnærming av forordninger i EF-/EU-landene.

IS: EB/ESB-samræmisýfirlýsing

Við, Grundfos, lýsum því yfir og ábyrgjumst að fullu að vörurnar CMBE, CMBE TWIN, sem þessi yfirlýsing á við um, samræmist tilskipunum ráðs Evrópubandalaganna um samræmingu laga aðildarríkja EB/ESB.

AR: إقرار مطابقة الاتحاد الأوروبي (EC/EU)

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين CMBE، CMBE TWIN، اللذين يختص بهما الإقرار أدناه، يكونان مطابقين لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EC/EU).

- Machinery Directive (2006/42/EC).
Standards used: EN 809: 1998 + A1: 2009.
- Applicable for products labelled with HMI 100, HMI 200 or HMI 300 and CIM 260 or CIM 280
Radio Equipment Directive (2014/53/EU).
Standards used:
 - EN 60335-1: 2012/A11:2014 +A12:2017 +A13:2017 +A14:2019 +A15:2021
 - EN 60335-2-41:2003 + A1:2004 + A2:2010
 - EN 62479:2010
 - EN 61800-3:2004 + A1:2012
 - EN 301 489-1 V2.2.0
 - EN 301 489-17 V2.2.1
 - EN 300 328 V2.1.1
 - EN 301 489-52 V1.1.0
 - EN 301 511 V12.5.1
- Applies from 22.07.2019: RoHS Directives (2011/65/EU and 2015/863/EU)
Standard used: EN IEC 63000 :2018

This EC/EU declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 99352825).

Bjerringbro 10.03. 2022

8850 Bjerringbro, Denmark

Person authorised to compile technical file and empowered to sign the EC/EU declaration of conformity.

Steen Tøffner-Clausen
Head of PD DBS
Grundfos Holding A/S
Poul Due Jensens Vej 7

Moroccan declaration of conformity

**GB: Moroccan declaration of conformity**

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with Moroccan laws, orders, standards, and specifications to which conformity is declared, as listed below:

Valid for products:

CMBE, CMBE TWIN

Law No 24-09, 2011 Safety of products and services and the following orders:

Order No 2573-14, 2015 Safety Requirements for Low Voltage Electrical Equipment

Standards used: NM EN 809+A1:2015, NM EN 60335-1:2015, NM EN 60335-2-41:2013

This Moroccan declaration of conformity is only valid when accompanying Grundfos instructions.

**FR: Déclaration de conformité marocaine**

Nous, Grundfos, déclarons sous notre seule responsabilité que les produits auxquels se réfère cette déclaration, sont conformes aux lois, ordonnances, normes et spécifications marocaines pour lesquelles la conformité est déclarée, comme indiqué ci-dessous :

Valable pour les produits Grundfos :

CMBE, CMBE TWIN

Sécurité des produits et services, loi n° 24-09, 2011 et décrets suivants :

Exigences de sécurité pour les équipements électriques basse tension, ordonnance n° 2573-14, 2015

Normes utilisées : NM EN 809+A1:2015, NM EN 60335-1:2015, NM EN 60335-2-41:2013

Cette déclaration de conformité marocaine est uniquement valide lorsqu'elle accompagne la notice d'installation et de fonctionnement Grundfos.

**AR: إقرار المطابقة المغربي**

نحن، جرونڤوس، نقر تحت مسؤوليتنا وحدنا بأن المنتجات التي يتعلق بها الإقرار أدناه، تتوافق مع القوانين والقرارات والمعايير والمواصفات المغربية التي تم إقرار المطابقة بشأنها، كما هو موضح أدناه:

ساري على منتجات جرونڤوس:

CMBE, CMBE TWIN

قانون رقم 24-09، 2011 بشأن سلامة المنتجات والخدمات والقرارات التالية:

القرار رقم 14-2573، 2015 متطلبات السلامة للمعدات الكهربائية ذات الجهد المنخفض

المعايير المستخدمة:

NM EN 809+A1:2015, NM EN 60335-1:2015, NM EN 60335-2-41:2013

يكون إقرار المطابقة المغربي صالحاً فقط عند نشره كجزء من تعليمات جرونڤوس.

Bjerringbro 10.03.2022



Steen Tøffner-Clausen

Head of PD DBS

Grundfos Holding A/S

Poul Due Jensens Vej 7

8850 Bjerringbro, Denmark

GB: Manufacturer and person empowered to sign the Moroccan declaration of conformity.

FR: Fabricant et personne habilitée à signer la Déclaration de conformité marocaine.

AR: الجهة المصنعة والشخص المفوض بتوقيع إقرار المطابقة المغربي.

10000097603

UK declaration of conformity

UK declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

CMBE ; CMBE TWIN

- Electrical Equipment (Safety) Regulations 2016
Standards used: BS EN 61439-1:2011, BS EN 61439-2:2011
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Standards used: BS EN IEC 63000:2018

This UK declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 98456935 or 99352825)

UK Importer: Grundfos Pumps Ltd. Grovebury Road,
Leighton Buzzard, LU7 4TL.

Bjerringbro 10.03. 2022



Steen Tøffner-Clausen

Head of PD DBS

Grundfos Holding A/S

Poul Due Jensens Vej 7

8850 Bjerringbro, Denmark

Manufacturer and person empowered to sign the UK
declaration of conformity.

10000097603

Operating manual EAC

RUS

СМВЕ**Руководство по эксплуатации**

Руководство по эксплуатации на данное изделие является составным и включает в себя несколько частей:

Часть 1: настоящее «Руководство по эксплуатации».

Часть 2: электронная часть «Паспорт. Руководство по монтажу и эксплуатации» размещенная на сайте компании Грундфос. Перейдите по ссылке, указанной в конце документа.

Часть 3: информация о сроке изготовления, размещенная на фирменной табличке изделия.

Сведения о сертификации:

Насосы типа СМВЕ сертифицированы на соответствие требованиям Технических регламентов Таможенного союза: ТР ТС 004/2011 «О безопасности низковольтного оборудования»; ТР ТС 010/2011 «О безопасности машин и оборудования»; ТР ТС 020/2011 «Электромагнитная совместимость технических средств».

Сертификат соответствия:

№ ТС RU C-DK.АИ30.В.01127, срок действия до 24.11.2019 г.

Выдан:

Органом по сертификации продукции «ИВАНОВО-СЕРТИФИКАТ» ООО «Ивановский Фонд Сертификации».

Адрес: 153032, Российская Федерация, г. Иваново, ул. Станкостроителей, д.1.

KAZ

СМВЕ**Пайдалану бойынша нұсқаулық**

Атаулы өнімге арналған пайдалану бойынша нұсқаулық құрамалы болып келеді және келесі бөлімдерден тұрады:

1 бөлім: атаулы «Пайдалану бойынша нұсқаулық»

2 бөлім: Грундфос компаниясының сайтында орналасқан электронды бөлім «Төлқұжат, Құрастыру және пайдалану бойынша нұсқаулық». Құжат соңында көрсетілген сілтеме арқылы өтіңіз.

3 бөлім: өнімнің фирмалық тақташасында орналасқан шығарылған уақыты жөніндегі мәлімет

Сертификаттау туралы ақпарат:

СМВЕ типті сорғылары «Төмен вольтты жабдықтардың қауіпсіздігі туралы» (ТР ТС 004/2011), «Машиналар және жабдықтар қауіпсіздігі туралы» (ТР ТС 010/2011) «Техникалық заттардың электрлі магниттік сәйкестілігі» (ТР ТС 020/2011) Кеден Одағының техникалық регламенттерінің талаптарына сәйкес сертифициатталды.

Сәйкестік сертификат:

№ ТС RU C-DK.АИ30.В.01127, жарамдылық мерзімі 24.11.2019 жылға дейін

«Иваново Сертификаттау Қоры» ЖШҚ «ИВАНОВО-СЕРТИФИКАТ» өнімді сертификациялау бойынша органымен берілген.

Мекен-жайы: 153032, Ресей Федерациясы, Иванов облысы, Иваново қ., Станкостроителей көш., 1 үй.

KG

СМВЕ

Пайдалануу боюнча колдонмо

Аталган жабдууну пайдалануу боюнча колдонмо курамдык жана өзүнө бир нече бөлүкчөнү камтыйт:

1-Бөлүк: «Пайдалануу боюнча колдонмо»

2-Бөлүк: «Паспорт. Пайдалануу жана монтаж боюнча колдонмо» электрондук бөлүгү Грундфос компаниянын сайтында жайгашкан. Документтин аягында көрсөтүлгөн шилтемеге кайрылыңыз.

3-Бөлүк: жабдуунун фирмалык тактасында жайгашкан даярдоо мөөнөтү тууралуу маалымат.

Шайкештик жөнүндө декларация

СМВЕ түрүндөгү соргүчтар Бажы Биримдиктин Техникалык регламенттин талаптарына ылайыктуу тастыкталган: TP TC 004/2011 «Төмөн вольттук жабдуунун коопсуздугу жөнүндө»; TP TC 010/2011 «Жабдуу жана машиналардын коопсуздугу жөнүндө»; TP TC 020/2011 «Техникалык каражаттардын электрмагниттик шайкештиги».

Шайкештик сертификаты:

№ TC RU C-DK.АИ30.В.01127, 24.11.2019 ж. чейин жарамдуу.

Берилген:

«ИВАНОВО-СЕРТИФИКАТ» өндүрүмдү тастыктаган ЖЧК «Ивановский Фонд Сертификации» органы менен. Дареги: 153032, Орусия Федерациясы, Иваново ш., Станкостроители көч., ү.1.

ARM

СМВЕ

Знахагործման ձեռնարկ

Տվյալ սարքավորման շահագործման ձեռնարկը բաղկացած է մի քանի մասերից.

Մաս 1. սույն «Знахагործման ձեռնարկ»:

Մաս 2. էլեկտրոնային մաս. այն է՝ «Անձնագիր: Մոնիտինգ և

շահագործման ձեռնարկ» տեղադրված «Գրունտֆոս». Անցեք փաստաթղթի վերջում նշված հղումով.

Մաս 3. տեղեկություն արտադրման ամսաթվի վերաբերյալ՝ նշված սարքավորման պիտակի վրա:

Տեղեկություններ հավաստագրման մասին՝

СМВЕ տիպի պոմպերը սերտիֆիկացված են համաձայն Մաքսային Միության տեխնիկական կանոնակարգի պահանջների՝ TP TC 004/2011 «Ցածրավոլտ սարքավորումների վերաբերյալ», TP TC 010/2011 «Մեքենաների և սարքավորումների անվտանգության վերաբերյալ» ; TP TC 020/2011

«Տեխնիկական միջոցների էլեկտրամագնիսական համատեղելիության վերաբերյալ»:

Համապատասխանության հավաստագիր՝

№ TC RU C-DK.АИ30.В.01127, գործողության ժամկետը մինչև՝ 24.11.2019 թ.

Տրված է՝

«ԻՎԱՆՈՎԻՆ-ՄԵԴԻԱԲԻՍ» ապրանքների սերտիֆիկացման մարմնի կողմից:

«Իվանովյի Սերտիֆիկացման հիմնադրամ» ՍՊԸ:

Հասցե՝ 153032, Ռուսաստանի Դաշնություն, քաղաք Իվանովո, Ստանկոստրոիտելների փողոց, տուն 1:



<http://net.grundfos.com/ar/i/98768075>

Ukrainian declaration of conformity



GB: Ukrainian declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with Ukrainian resolutions, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

CMBE, CMBE TWIN

Resolution No. 62, 2013 - Technical Regulations on Safety of Machines

Resolution No. 533, 2018 - Amendments to some provisions

Standards used: ДСТУ EN 809:2015

Resolution No. 139, 2017 - Technical Regulations on Use of Certain Hazardous Substances in Electrical and Electronic Equipment

Standards used: ДСТУ EN IEC 63000:2020

Resolution No. 355, 2017 - Technical Regulation on Radio Equipment

Standards used: ДСТУ EN 60335-1:2014, ДСТУ EN 60335-2-41:2015, ДСТУ EN 61800-3:2015, ДСТУ EN 62479:2015, ДСТУ ETSI EN 301 489-1:2019, ДСТУ ETSI EN 301 489-17:2008, ДСТУ ETSI EN 300 328:2017

Resolution No. 355, 2017 - Technical Regulation on Radio Equipment

Standards used: ДСТУ EN 60335-1:2014, ДСТУ EN 60335-2-41:2015, ДСТУ EN 61800-3:2015, ДСТУ EN 62479:2015, ДСТУ ETSI EN 301 489-1:2019, ДСТУ ETSI EN 301 489-17:2008, EN 301 489-52 V1.1.0, ДСТУ ETSI EN 300 328:2017, ДСТУ ETSI EN 301 511:2016

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This Ukrainian declaration of conformity is only valid when accompanying Grundfos instructions.



UA: Українська декларація відповідності

Ми, Grundfos, заявляємо про свою виключну відповідальність за те, що продукція, до якої відноситься ця декларація, відповідає вимогам українським постановам, стандартам та технічним умовам, щодо яких заявлена відповідність, як зазначено нижче:

Дійсно для продуктів Grundfos:

CMBE, CMBE TWIN

Постанова № 62 від 2013 р., Про затвердження Технічного регламенту безпеки машин

Постанова № 533 від 2018 р., Про внесення змін до деяких положень

Застосовані стандарти: ДСТУ EN 809:2015

Постанова № 139 від 2017 р., Технічний регламент обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні

Застосовані стандарти: ДСТУ EN IEC 63000:2020

Постанова № 355 від 2017 р., Технічний регламент радіоблагоднання

Застосовані стандарти: ДСТУ EN 60335-1:2014, ДСТУ EN 60335-2-41:2015, ДСТУ EN 61800-3:2015, ДСТУ EN 62479:2015, ДСТУ ETSI EN 301 489-1:2019, ДСТУ ETSI EN 301 489-17:2008, ДСТУ ETSI EN 300 328:2017

Постанова № 355 від 2017 р., Технічний регламент радіоблагоднання

Застосовані стандарти: ДСТУ EN 60335-1:2014, ДСТУ EN 60335-2-41:2015, ДСТУ EN 61800-3:2015, ДСТУ EN 62479:2015, ДСТУ ETSI EN 301 489-1:2019, ДСТУ ETSI EN 301 489-17:2008, EN 301 489-52 V1.1.0, ДСТУ ETSI EN 300 328:2017, ДСТУ ETSI EN 301 511:2016

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Ця українська декларація відповідності дійсна лише за наявності інструкцій Grundfos.

Bjerringbro, 3.2.2022

Steen Tøffner-Clausen

Head of PD DBS

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GB: Manufacturer and person empowered to sign the Ukrainian declaration of conformity

UA: Виробник та особа, уповноважена підписати українську декларацію відповідності

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