CMB, CMB-SP Booster PM1, PM2

Installation and operating instructions

CM Booster PM1 QG
Installation and operating instructions
(all available languages)
http://net.grundfos.com/qr/i/96984345

GRUNDFOS

CMB, CMB-SP Booster PM1, PM2

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Original installation and operating instructions

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1. General information

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.

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

1.1 Hazard statements

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

DANGER

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

WARNING

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

CAUTION

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

The hazard statements are structured in the following way:

SIGNAL WORD

Description of the hazard

Consequence of ignoring the warning

- Action to avoid the hazard.

1.2 Notes

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

Observe these instructions for explosion-proof products.

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

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

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

Tips and advice that make the work easier.

2. Safety instructions

System sizing

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.

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
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
Electric shock
Death or serious personal injury

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

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

- Make sure that the power supply 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

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

Startup

WARNING
Biological hazard
Death or serious personal injury

- Flush the pump with clean water before first use.

Drinking water systems

DANGER
Contaminated drinking water
Death or serious personal injury

- Flush the system before starting it or after a standstill period.

Maintenance and service

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

- Let the system cool down before dismantling the product.

WARNING
Biological hazard
Death or serious personal injury

- To avoid migration of hazardous substances, use only original spare parts from Grundfos.

WARNING
Electric shock
Death or serious personal injury

- Make sure that the cable type, cross-sectional dimensions and the temperature rating fits the application.
- The tightening torque on the strain relief device must have an adequate force.

CAUTION
Impurities in water
Minor or moderate personal injury

- Before the pump is used for supplying drinking water, flush the pump thoroughly with clean water.

CAUTION
Sharp element
Minor or moderate personal injury

- Wear protective gloves.

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.

3. Product description

CMB and CMB-SP Booster PM1, PM2 are compact booster sets designed for water supply in domestic and light commercial applications. The modular pump design makes it easy to make customised solutions.

The booster sets can be supplied with either Grundfos PM1 or PM2 pressure manager.

3.1 Intended use

The product has been evaluated for use in indoor installations with:

- clean water
- drinking water.

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

Check local regulations.

3.2 System sizing

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

The default setting causes the pump not to stop until it reaches its maximum pressure.

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.

4. 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.

5. Electrical connection

WARNING
Electric shock
Death or serious personal injury

- Switch off the power supply before you start any work on the product. Make sure that the power supply cannot be switched on accidentally.

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.

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

- Make sure that the power supply 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

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

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

6. Startup

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.

6.1 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. Alarms

If a dry-running alarm has been activated, find the cause before the pump is restarted in order to prevent damage to the pump.

7.1 Enabling and disabling anti-cycling

In case of a very small water consumption, the anti-cycling function may detect this as cycling and stop the pump inadvertently. If this occurs, the function can be disabled.

Enabling and disabling the function

1. Press **Reset** for 3 seconds until **Power on** starts flashing.
2. Select whether the function is to be enabled or disabled. Press **Reset** to change between enabled and disabled. **Pump on** is off when the function is disabled. **Pump on** is on when the function is enabled.
3. Press **Reset** for 3 seconds to return to operation.

8. Maintenance and service

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

- Let the system cool down before dismantling the product.

WARNING
Biological hazard
Death or serious personal injury

- To avoid migration of hazardous substances, use only original spare parts from Grundfos.

WARNING
Electric shock
Death or serious personal injury

- Make sure that the cable type, cross-sectional dimensions and the temperature rating fits the application.
- The tightening torque on the strain relief device must have an adequate force.

CAUTION
Impurities in water
Minor or moderate personal injury

- Before the pump is used for supplying drinking water, flush the pump thoroughly with clean water.

CAUTION
Sharp element
Minor or moderate personal injury

- Wear protective gloves.

9. 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.

9.1 The green "Power on" indicator light is off

Cause	Remedy
The fuses in the electrical installation have blown.	• Replace the fuses. If the new fuses also blow, check the electrical installation.
The earth leakage circuit breaker or the voltage-operated circuit breaker has tripped.	• Start the circuit breaker.
No power supply.	• Contact the power supply company.
The PM unit is defective.	• Repair or replace the PM unit.

9.2 The green "Pump on" indicator light is on, but the pump does not start

Cause	Remedy
The power supply to the pump is disconnected after the PM unit.	• Check the plug and cable connections, and check if the built-in circuit breaker of the pump is switched off.
The motor protection of the pump has tripped due to overload.	• Check if the motor/ pump is blocked.
The pump is defective.	• Repair or replace the pump.
The PM unit is defective.	• Repair or replace the PM unit.

9.3 The pump does not start when water is consumed, and the "Pump on" indicator light is off

Cause	Remedy
Too big difference in height between the PM unit and the tapping point.	• Adjust the installation, or select a PM unit with a higher start pressure.
The PM unit is defective.	• Repair or replace the PM unit.

9.4 Frequent starts and stops

Cause	Remedy
Leakage in the pipes.	• Check and repair the pipes.
Leaky non-return valve.	• Clean or replace the non-return valve.
A valve close to the PM 1 outlet has been closed.	• Open the valve.

9.5 The pump does not stop

Cause	Remedy
The pump cannot deliver the necessary outlet pressure.	• Replace the pump.
A PM unit with too high start pressure is installed.	• Select a PM unit with a lower start pressure.
The PM unit is defective.	• Repair or replace the PM unit.
The non-return valve is stuck in open position.	• Clean or replace the non-return valve.

9.6 The red "Alarm" indicator light is permanently on

Cause	Remedy
Dry running. The pump needs water.	• Check the pipes.
The power supply to the pump is disconnected after the PM unit.	• Check the plug and cable connections. • Check if the built-in circuit breaker of the pump is switched off.
The motor protection of the pump has tripped due to overload.	• Check if the motor/ pump is blocked.
The pump is defective.	• Repair or replace the pump.
The PM unit is defective.	• Repair or replace the PM unit.

9.7 The red "Alarm" indicator light is flashing

Cause	Remedy
Cycling. A tap has not been closed entirely after use.	• Check that all taps have been closed.

9.8 Unstable pump performance

Cause	Remedy
Pump inlet pressure is too low.	• Check the inlet conditions of the pump.
The inlet pipe is partly blocked by impurities.	• Remove and clean the inlet pipe.
Leakage in the inlet pipe.	• Remove and repair the inlet pipe.
Air in the inlet pipe or pump.	• Vent the inlet pipe or pump. • Check the inlet conditions of the pump.

9.9 The pump runs backwards when switched off

Cause	Remedy
Leakage in the inlet pipe.	• Remove and repair the inlet pipe.
The foot or non-return valve is defective.	• Remove and clean, repair or replace the valve.
The foot valve is stuck in completely or partly open position.	• Remove and clean, repair or replace the valve.

10. Fault finding for self-priming pumps

10.1 The pump performance is unstable, and the pump is noisy

Cause	Remedy
The differential pressure across the pump is too low.	• Close the tap gradually until the outlet pressure is stable and the noise has ceased.

10.2 When startup is attempted, the pump starts, but delivers no pressure or flow

Cause	Remedy
The liquid column above the non-return valve in the outlet pipe prevents the pump from self-priming.	• Empty the outlet pipe. Make sure that the non-return valve does not hold back liquid in the outlet pipe. • Repeat the startup procedure.
The inlet pipe draws in air.	• Make sure that the inlet pipe is airtight from pump to liquid level. • Repeat the startup procedure.

10.3 The pump runs, but does not deliver the rated flow rate

Cause	Remedy
The internal valve did not close.	• Close the tap gradually until the pressure or flow suddenly increases. • Open the tap gradually until the required flow is reached.

10.4 Unstable pump performance

Cause	Remedy
The pump inlet pressure is too low.	• Check the inlet conditions of the pump.
The inlet pipe is partly blocked by impurities.	• Remove and clean the inlet pipe.
Leakage in the inlet pipe.	• Remove and repair the inlet pipe.
Air in the inlet pipe or pump	• Vent the inlet pipe or pump. • Check the inlet conditions of the pump.

10.5 The pump runs backwards when switched off

Cause	Remedy
Leakage in the inlet pipe.	• Remove and repair the inlet pipe.
The foot or non-return valve is defective.	• Remove and clean, repair or replace the valve.
The foot valve is stuck in completely or partly open position.	• Remove and clean, repair or replace the valve.

11. Technical data

11.1 Operating conditions

Temperature	[°C (°F)]
Max. ambient temperature	50 (122)
Max. liquid temperature	40 (104)

Pump pressure	[bar (psi)]	[MPa]
Max. system pressure	10.0 (145.0)	1.0
Min. inlet pressure	0.5 (172.5)	0.5
Max. inlet pressure	4.0 (58.0)	0.4

Other operating data	
Max. head	56 m (184 ft)
IP rating	IP55
Pumped liquid	Clean water Drinking water
Max. noise level	55 dB(A) [1]

1) During priming, the sound level may be higher.

12. 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*.

13. Document quality feedback

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

FEEDBACK_93129076

Click here to submit your feedback

1. China ROHS CMB, CMB-SP Booster PM1, PM2

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴联苯醚 (PBDE)
泵壳	0	O	O	O	O	O
紧固件	0	O	O	O	O	O
管件	X	O	O	O	O	O
定子	0	O	O	O	X	O
转子	0	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制

O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X： 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 该规定的限量要求。

该产品环保使用期限为 10 年，标识如左图所示。
此环保期限只适用于产品在安装与使用说明书中所规定的条件下工作

Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products CM Booster PM1, CM Booster-SP PM1, CM Booster PM2, CM Booster-SP PM1, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

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 CM Booster PM1, CM Booster-SP PM1, CM Booster PM2, CM Booster-SP PM1 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 Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk CM Booster PM1, CM Booster-SP PM1, CM Booster PM2, CM Booster-SP PM1, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan berikut ini serta sedapat mungkin sesuai dengan hukum negara-negara anggota Uni Eropa.

AR: إقرار مطابقة الاتحاد الأوروبي (EU)

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين CM Booster PM1, CM Booster-SP PM1, CM Booster PM2, CM Booster-SP PM1، اللذين يختص بهما الإقرار أدناه، يكونان مطابقين لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EU).

Valid for CMB PM1 and CMB PM2:

- Machinery Directive (2006/42/EC).
  Standards used:
  EN809:1998 + A1:2009.
- Low Voltage Directive (2014/35/EU).
  Standard used:
  EN60335-1:2012+AC:2014+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021
  EN60335-2-51:2003 + A1:2008 +A2:2012
- Ecodesign Directive (2009/125/EC)
  Electric Motors:
  Commission Regulation No EU 2019/1781 and No EU 2021/341
  Standard used:
  EN60034-30-1:2014
- RoHS directive (2011/65/EU and Directive (EU) 2015/863
  Standard used:
  EN/IEC 63000:2018

Only valid for CMB PM2

- Electromagnetic compatibility directive (2014/30/EU)
  Standards used:
  EN809:1998 + A1:2009.
- Low Voltage Directive (2014/35/EU).
  Standard used:
  EN60730-1:2016+A1:2019 +A2:2022

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

Bjerringbro, 26 January 2024

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