

CMB, CMB-SP Booster PM1

Supplement to Quick Guide



English (GB) Safety instructions and other important information

Original installation and operating instructions

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Read this document before installing 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. General information

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 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. System sizing



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



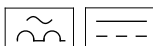
The default setting causes the pump not to stop until it reaches its maximum pressure.

DANGER

Electric shock

Death or serious personal injury

- 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:



3. 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.



4. 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.

5. 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.

WARNING**Overpressure in the tank**

Death or serious personal injury

- Never exceed the maximum operating pressure of the tank. See the nameplate of the tank.

**6. 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.

6.1 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.

7. 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

Pressurised system

Death or serious personal injury

- Depressurise the product before performing maintenance on 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.

8. 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.

Fault	Cause	Remedy
1. The green "Power on" indicator light is off.	a) The fuses in the electrical installation have blown.	Replace the fuses. If the new fuses also blow, check the electrical installation.
	b) The earth leakage circuit breaker or the voltage-operated circuit breaker has tripped.	Cut in the circuit breaker.
	c) No power supply.	Contact the power supply company.
	d) The PM unit is defective.	Repair or replace the PM unit.
2. The green "Pump on" indicator light is on, but the pump does not start.	a) 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.
	b) The motor protection of the pump has tripped due to overload.	Check if the motor/pump is blocked.
	c) The pump is defective.	Repair or replace the pump.
	d) The PM unit is defective.	Repair or replace the PM unit.
3. The pump does not start when water is consumed. The "Pump on" indicator light is off.	a) 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.
	b) The PM unit is defective.	Repair or replace the PM unit.
4. Frequent starts/stops.	a) Leakage in the pipes.	Check and repair the pipes.
	b) Leaky non-return valve.	Clean or replace the non-return valve.
	c) A valve close to the PM 1 outlet has been closed.	Open the valve.

Fault	Cause	Remedy
5. The pump does not stop.	a) The pump cannot deliver the necessary outlet pressure.	Replace the pump.
	b) A PM unit with too high start pressure is installed.	Select a PM unit with a lower start pressure.
	c) The PM unit is defective.	Repair or replace the PM unit.
	d) The non-return valve is stuck in open position.	Clean or replace the non-return valve.
6. The red "Alarm" indicator light is permanently on.	a) Dry running. The pump needs water.	Check the pipes.
	b) 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.
	c) The motor protection of the pump has tripped due to overload.	Check if the motor/pump is blocked.
	d) The pump is defective.	Repair or replace the pump.
	e) The PM unit is defective.	Repair or replace the PM unit.
7. The red "Alarm" indicator light is flashing.	a) Cycling. A tap has not been closed entirely after use.	Check that all taps have been closed.
8. The pump performance is unstable.	a) Pump inlet pressure is too low.	Check the inlet conditions of the pump.
	b) The inlet pipe is partly blocked by impurities.	Remove and clean the inlet pipe.
	c) Leakage in the inlet pipe.	Remove and repair the inlet pipe.
	d) Air in the inlet pipe or pump.	Vent the inlet pipe or pump. Check the inlet conditions of the pump.
9. The pump runs backwards when switched off.	a) Leakage in the inlet pipe.	Remove and repair the inlet pipe.
	b) The foot or non-return valve is defective.	Remove and clean, repair or replace the valve.
	c) The foot valve is stuck in completely or partly open position.	Remove and clean, repair or replace the valve.
Self-priming pumps only:		
10. The pump performance is unstable and the pump is noisy.	a) The differential pressure across the pump is too low.	Close the tap gradually until the outlet pressure is stable and the noise has ceased.
11. When startup is attempted, the pump starts, but delivers no pressure or flow.	a) Liquid column above 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.
	b) The inlet pipe draws in air.	Make sure that the inlet pipe is airtight from pump to liquid level. Repeat the startup procedure.
12. The pump runs, but does not deliver the rated flow rate.	a) The internal valve did not close.	Close the tap gradually until the pressure or flow suddenly increases. Then open the tap gradually until the required flow is reached.
13. The pump performance is unstable.	a) Pump inlet pressure is too low.	Check the inlet conditions of the pump.
	b) The inlet pipe is partly blocked by impurities.	Remove and clean the inlet pipe.
	c) Leakage in the inlet pipe.	Remove and repair the inlet pipe.
	d) Air in the inlet pipe or pump.	Vent the inlet pipe or pump. Check the inlet conditions of the pump.

Fault	Cause	Remedy
14. The pump runs backwards when switched off.	a) Leakage in the inlet pipe.	Remove and repair the inlet pipe.
	b) The foot or non-return valve is defective.	Remove and clean, repair or replace the valve.
	c) The foot valve is stuck in completely or partly open position.	Remove and clean, repair or replace the valve.
Self-priming pumps only:		
15. The pump performance is unstable and the pump is noisy.	a) The differential pressure across the pump is too low.	Close the tap gradually until the outlet pressure is stable and the noise has ceased.
16. When startup is attempted, the pump starts, but delivers no pressure or flow.	a) Liquid column above non-return valve in 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.
	b) The inlet pipe draws in air.	Make sure that the inlet pipe is airtight from pump to liquid level. Repeat the startup procedure.
17. The pump runs, but does not deliver the rated flow.	a) The internal valve did not close.	Close the tap gradually until the pressure or flow suddenly increases. Then open the tap gradually until the required flow is reached.

9. 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.

Declaration of conformity

GB: EC/EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products CM Booster PM1, 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 EC/EU member states.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky CM Booster PM1, CM Booster-SP PM1, 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 CM Booster PM1, CM Booster-SP PM1 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 CM Booster PM1, CM Booster-SP PM1 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 CM Booster PM1, CM Booster-SP PM1, 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 CM Booster PM1, CM Booster-SP PM1, 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 CM Booster PM1, CM Booster-SP PM1, ai quali si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri CE/UE.

LV: EK/ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti CM Booster PM1, CM Booster-SP PM1, uz kuriem attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par EK/ES dalībvalstu normatīvo aktu tuvināšanu.

PL: Deklaracja zgodności WE/UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty CM Booster PM1, CM Booster-SP PM1, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

RO: Declarația de conformitate CE/UE

Noi Grundfos declaram pe propria răspundere că produsele CM Booster PM1, CM Booster-SP PM1, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre CE/UE.

RU: Декларация о соответствии нормам ЕЭС/ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия CM Booster PM1, CM Booster-SP PM1, к которым относится нижеприведенная декларация, соответствуют нижеприведенным Директивам Совета Евросоюза о тождественности законов стран-членов ЕЭС/ЕС.

SI: Izjava o skladnosti ES/EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek CM Booster PM1, CM Booster-SP PM1, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic ES/EU.

BG: Декларация за съответствие на ЕС/ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите CM Booster PM1, CM Booster-SP PM1, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднавяване на правните разпоредби на държавите-членки на ЕС/ЕО.

DE: EG-/EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte CM Booster PM1, CM Booster-SP PM1, 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 ainuiskulust vastutust selle eest, et toode CM Booster PM1, CM Booster-SP PM1, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastvõetud õigusaktidele ühtlustamise kohta EÜ/EL liikmesriikides.

FI: EY-/EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteen CM Booster PM1, CM Booster-SP PM1, 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 αποκλειστικό δική μας ευθύνη ότι τα προϊόντα CM Booster PM1, CM Booster-SP PM1, 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 megfelelőségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) CM Booster PM1, CM Booster-SP PM1 termékek, amelyre 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 pareiškiame, kad produktai CM Booster PM1, CM Booster-SP PM1, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktivas dėl EB/ES šalių narių įstatymų suderinimo.

NL: EG-/EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten CM Booster PM1, CM Booster-SP PM1, 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.

PT: Declaração de conformidade CE/UE

A Grundfos declara sob sua única responsabilidade que os produtos CM Booster PM1, CM Booster-SP PM1, 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.

RS: Deklaracija o usklađenosti EC/EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod CM Booster PM1, CM Booster-SP PM1, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EC/EU.

SE: EG-/EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkterna CM Booster PM1, CM Booster-SP PM1, som omfattas av nedanstående försäkran, är i överensstämmelse med de räsdirktiv om inbördes närmande till EG-/EU-medlemsstaternas lagstiftning som listas nedan.

SK: EC/EU vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty CM Booster PM1, CM Booster-SP PM1 na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EC/EU.

TR: EC/AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan CM Booster PM1, CM Booster-SP PM1 ürünlerinin, EC/AB Üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

NO: EFs/EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktene CM Booster PM1, CM Booster-SP PM1 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 CM Booster PM1, CM Booster-SP PM1, sem þessi yfirlýsing á við um, samræmist tilskipunum ráðs Evrópubandalaganna um samræmingu laga aðildarríkja EB/ESB.

UA: Декларация відповідності директивам EC/EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби CM Booster PM1, CM Booster-SP PM1, до яких відноситься нижченаведена декларація, відповідають директивам EC/EU, переліченим нижче, щодо тотожності законів країн-членів ЄС.

AR: إقرار مطابقة الاتحاد الأوروبي (EC/EU)

نقرر نحن، جرونسفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين CM Booster PM1 و CM Booster-SP PM1، اللذين يكتسبن بهذا 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.
- Low Voltage Directive (2014/35/EU)
Standards used:
EN 60335-1: 2012+ A11: 2014, EN 60335-2-51 : 2003 + A1: 2008 + A2: 2012.
- Ecodesign Directive (2009/125/EC).
Electric motors:
Commission Regulation No. 640/2009.
Applies only to three-phase Grundfos motors marked IE2 or IE3.
See motor nameplate.
Standard used: EN 60034-30:2009.
- RoHS Directives (2011/65/EU and 2015/863/EU)
Standard used:
EN 50581:2012

This EC/EU declaration of conformity is only valid when published as part of the Grundfos safety instructions (publication number 97727556).

Bjerringbro, 30 th November 2018



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