

CMB, CMB-SP Booster PM1

Supplement to Quick Guide



English (GB) Installation and operating instructions

Original installation and operating instructions

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Warning

Prior to installation, read this document and the quick guide. Installation and operation must comply with local regulations and accepted codes of good practice.

Warning

The use of this product requires experience with and knowledge of the product.



Persons with reduced physical, sensory or mental capabilities must not use this product, unless they are under supervision or have been instructed in the use of the product by a person responsible for their safety.

Children must not use or play with this product.

1. Symbols used in this document



Warning

If these safety instructions are not observed, it may result in personal injury.



Warning

If these instructions are not observed, it may lead to electric shock with consequent risk of serious personal injury or death.



If these safety instructions are not

observed, it may result in malfunction or damage to the equipment.



Notes or instructions that make the job easier and ensure safe operation.

2. System sizing



Warning

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



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

3. Mechanical installation



Warning

Before starting work on the CM Booster, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

4. Electrical installation



Warning

The electrical installation must be carried out by an authorised person in accordance with local regulations.

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

Warning

Before making any connections in the unit, make sure that the power supply has been switched off and that it cannot be accidentally switched on.



The unit must be connected to an external mains switch with a contact gap of at least 3 mm in all poles.

As a precaution, the unit must be connected to a socket with earth connection.

We recommend to fit the permanent installation with an earth leakage circuit breaker (ELCB) with a tripping current < 30 mA.

5. Startup

Caution

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

6. Alarms

Caution

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

Note

In case of a very small 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 should be enabled or disabled. Each time [Reset] is pressed, the unit will 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. Fault finding



Warning

Before starting work on the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

| Fault | Cause | Remedy |
|--|---|--|
| 1. The green "Power on" indicator light is off. | a) The fuses in the electric installation have burnt. | Replace the fuses. If the new fuses also burn, check the electric 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 pipework. | Check and repair the pipework. |
| | 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. |
| 5. The pump does not stop. | a) The pump cannot deliver the necessary discharge 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 pipework. |
| | 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. |

| Fault | Cause | Remedy |
|---|---|--|
| 8. The pump performance is unstable. | a) Pump inlet pressure too low. | Check the inlet conditions of the pump. |
| | b) Suction pipe is partly blocked by impurities. | Remove and clean the suction pipe. |
| | c) Leakage in suction pipe. | Remove and repair the suction pipe. |
| | d) Air in suction pipe or pump. | Vent the suction pipe/pump. Check the inlet conditions of the pump. |
| 9. The pump runs backwards when switched off. | a) Leakage in suction pipe. | Remove and repair the suction pipe. |
| | b) Foot or non-return valve 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 discharge pressure is stable and the noise has ceased. |
| 11. When startup is attempted, the pump will start, but delivers no pressure or flow. | a) Liquid column above non-return valve in discharge pipe prevents the pump from self-priming. | Empty the discharge pipe. Make sure that the non-return valve does not hold back liquid in the discharge pipe. Repeat the startup procedure. |
| | b) Suction pipe draws in air. | Make sure that the suction pipe is airtight from pump to liquid level. Repeat the startup procedure. |
| 12. 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. |
| 13. The pump performance is unstable. | a) Pump inlet pressure too low. | Check the inlet conditions of the pump. |
| | b) Suction pipe is partly blocked by impurities. | Remove and clean the suction pipe. |
| | c) Leakage in suction pipe. | Remove and repair the suction pipe. |
| | d) Air in suction pipe or pump. | Vent the suction pipe/pump. Check the inlet conditions of the pump. |
| 14. The pump runs backwards when switched off. | a) Leakage in suction pipe. | Remove and repair the suction pipe. |
| | b) Foot or non-return valve 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 discharge pressure is stable and the noise has ceased. |
| 16. When startup is attempted, the pump will start, but delivers no pressure or flow. | a) Liquid column above non-return valve in discharge pipe prevents the pump from self-priming. | Empty the discharge pipe. Make sure that the non-return valve does not hold back liquid in the discharge pipe. Repeat the startup procedure. |
| | b) Suction pipe draws in air. | Make sure that the suction pipe is airtight from pump to liquid level. Repeat the startup procedure. |

| Fault | Cause | Remedy |
|---|--------------------------------------|--|
| 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. |

8. Disposal

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.

Subject to alterations.

Declaration of conformity

GB: EC/EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products CMB Booster PM1, CMB-SP Booster 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. **Note:** There are two sets of Council Directives and standards listed below. One set applies until and including 19th April 2016. The other set applies from 20th April 2016 and onwards.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky CMB Booster PM1, CMB-SP Booster PM1, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

Poznámka: Níže jsou uvedeny dvě sady směrnic Rady a standardů. První sada je platná do 19. dubna 2016 (včetně). Druhá sada platí od 20. dubna 2016.

DK: EF/EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne CMB Booster PM1, CMB-SP Booster PM1 som erklæringen nedener omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EF/EU-medlemsstaternes lovgivning. **Bemærk:** Der er angivet to sæt af Rådets direktiver og standarder nedenfor. Det ene sæt gælder til og med 19. april 2016. Det andet sæt gælder fra og med 20. april 2016.

ES: Declaración de conformidad de la CE/UE

Grundfos declara, bajo su exclusiva responsabilidad, que los productos CMB Booster PM1, CMB-SP Booster 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.

Nota: A continuación se recogen dos conjuntos de normas y Directivas del Consejo. Uno de ellos es válido hasta el 19 de abril de 2016. El otro es válido a partir del 20 de abril de 2016.

FR: Déclaration de conformité CE/UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits CMB Booster PM1, CMB-SP Booster 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.

Remarque : Deux groupes de Directives du Conseil et normes sont énoncés ci-dessous. Un groupe s'applique jusqu'au 19 avril 2016 inclus. L'autre groupe entrera en vigueur le 20 avril 2016.

HR: EC/EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi CMB Booster PM1, CMB-SP Booster PM1, na koja se izjava odnosi u nastavku, u skladu s direktivama Vijeća dolje navedene o uskladjivanju zakona država članica EZ-a / EU-a.

Napomena: Postoje dva seta direktiva vijeća i standarda navedenih dolje. Jedan set se odnosi do, i uključujući 19 Travanja 2016. Drugi set se odnosi na datume od 20 travnja 2016 i naprijed.

IT: Dichiarazione di conformità CE/UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti CMB Booster PM1, CMB-SP Booster PM1, ai quali si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri CE/UE.

Nota: Di seguito sono elencate due serie di direttive del Consiglio e norme. Una serie si applica fino al 19 aprile 2016 (incluso). La seconda serie si applica a partire dal 20 aprile 2016.

BG: Декларация за съответствие на ЕС/ЕО

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

Забележка: По-долу има изброени две групи директиви и стандарти на Съвета. Едната група е в сила до 19 април 2016 г. включително. Другата група е в сила от 20 април 2016 г.

DE: EG-/EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte CMB Booster PM1, CMB-SP Booster PM1, auf die sich diese Erklärung beziehen, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EG-/EU-Mitgliedsstaaten übereinstimmen.

Hinweis: Nachfolgend sind zwei Gruppen aus Richtlinien des Rates und Standards aufgeführt. Eine Gruppe gilt bis einschließlich 19. April 2016. Die andere Gruppe gilt ab dem 20. April 2016.

EE: EÜ / ELi vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuiskulust vastutust selle eest, et toode CMB Booster PM1, CMB-SP Booster PM1, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ / EL liikmesriikides.

Märkus: Allpool on loetletud kaks nõukogu direktiivi ja standardeid. Ühed kehtivad kuni 19. aprill 2016 (kaasa arvatud). Teised kehtivad alates 20.04.2016 ja edasi.

FI: EY/EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteet CMB Booster PM1, CMB-SP Booster PM1, joita tämä vakuutus koskee, ovat EY/EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

Huomautus: Seuraavassa on lueteltu kaksi erilaista neuvoston direktiivien ja standardien sarjaa. Yhden sarjan viimeinen voimaosolopäivä on 19. huhtikuuta 2016. Toinen sarja on voimassa 20. huhtikuuta 2016 alkaen.

GR: Δήλωση συμμόρφωσης ΕΚ/ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα CMB Booster PM1, CMB-SP Booster PM1, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΚ/ΕΕ.

Σημείωση: Υπάρχουν δύο σει Οδηγιών Συμβουλίου και προτύπων που παρατίθενται παρακάτω. Το ένα σει ισχύει μέχρι και την 19η Απριλίου 2016. Το άλλο σει ισχύει από την 20η Απριλίου 2016 και μετέπειτα.

HU: EC/EU megfelelőségi nyilatkozat

Mi, a Grundfos vállalatal, teljes felelősséggel kijelentjük, hogy a(z) CMB Booster PM1, CMB-SP Booster PM1 termékek, amelyre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Közösség/Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

Megjegyzés: Az alábbiakban a Tanács irányelvei és szabványai közül két csoportot ismertetünk. Az egyik csoport 2016. április 19-ével bezárólag érvényes. A másik csoport 2016. április 20-tól érvényes.

LT: EB/ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktai CMB Booster PM1, CMB-SP Booster PM1, kuriems skirta ši deklaracija, atitinka Žemiau nurodytas Tarybos Direktyvas dėl EB/ES šalių narių įstatymų suderinimo.

Pastaba. Žemiau nurodytos dvi Tarybos Direktyvų ir standartų grupės. Viena grupė galioja iki 2016 m. balandžio 19 d. imtinai. Kita grupė galioja nuo 2016 m. balandžio 20 d.

LV: EK/ES atbilstības deklarācija

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

Piezīme: Tālāk norādīti divi Padomes direktīvu un standartu krājumi. Viens krājums ir piemērojams līdz 2016. gada 19. aprīlim (ieskaitot). Otrs krājums ir piemērojams no 2016. gada 20. aprīļa.

PL: Deklaracja zgodności WE/UE

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

Uwaga: Poniżej podano dwa zestawy dyrektyw i norm. Pierwszy zestaw obowiązuje do 19 kwietnia 2016 r. włącznie. Drugi zacznie obowiązywać 20 kwietnia 2016 r.

RO: Declarația de conformitate CE/UE

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

Notă: Există două seturi de directive și standarde ale Consiliului specificate mai jos. Un set se aplică până la, și inclusiv în 19 aprilie 2016. Celălalt set se aplică de la 20 aprilie 2016 și în continuare.

RU: Декларация о соответствии нормам ЕЭС/ЕС

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

Примечание: Существует два комплекта Директив Совета Евросоюза и стандартов, перечисленных ниже. Один комплект применяется до 19 апреля 2016 г. включительно. Второй комплект применяется начиная с 20 апреля 2016 г.

SI: Izjava o skladnosti ES/EU

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

Opomba: Spodaj sta navedeni dve skupini direktiv Sveta o približevanju zakonodaje. Ena skupina se nanaša na obdobje do in vključno z 19. aprilom 2016. Druga skupina se nanaša na obdobje od 20. aprila 2016 naprej.

TR: EC/AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan CMB Booster PM1, CMB-SP Booster PM1 ürünlerinin, EC/AB Üye ülkelerinin direktiflerini yakınlaştırmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğumun bize ait olduğunu beyan ederiz.

Not: Aşağıda belirtilen iki küme Konsey Direktifleri ve Standartları bulunmaktadır. Bir küme 19 Nisan 2016 dahil bu tarihe kadar geçerlidir. Diğer küme 20 Nisan 2016 sonrası için geçerlidir.

NL: EG/EU-conformiteitsverklaring

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

Opmerking: Hieronder worden twee reeksen Richtlijnen van de Raad en normen weergegeven. De ene set geldt tot en met 19 april 2016. De andere set is vanaf 20 april 2016 van kracht.

PT: Declaração de conformidade CE/UE

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

Nota: Abaixo estão listados dois grupos de Directivas do Conselho e normas. Um dos grupos é aplicável até 19 de Abril de 2016, inclusive. O outro grupo é aplicável a partir de 20 de Abril de 2016, inclusive.

RS: Deklaracija o usklađenosti EC/EU

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

Napomena: Ispod su navedena dva seta direktiva Saveta. Jedan set se odnosi na vreme do i uključuje 19. april 2016. Drugi set se odnosi na vreme od 20. aprila 2016. pa nadalje.

SE: EG/EU-försäkran om överensstämmelse

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

Obs! Det finns två uppsättningar rådsdirektiv och standarder listade nedan. En uppsättning gäller till och med den 19 april 2016. Den andra uppsättningen gäller från den 20 april 2016 och tills vidare.

SK: Prehlásenie o zhode s EC/EU

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

Poznámka: Existujú dva súbory smerníc a noriem Rady uvedené nižšie. Jeden súbor platí do a vrátane 19.4.2016. Druhý súbor platí od 20.4.2016 ďalej.

UA: Декларация відповідності директивам ЕС/ЕУ

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

Примітка: Існує два комплекти директив та стандартів ЕС/ЕУ, перелічених нижче. Один комплект застосовується до 19 квітня 2016 р. Другий комплект застосовується з 20 квітня 2016 р.

These Directives and standards apply until and including 19th April 2016:

- Machinery Directive (2006/42/EC).
Standards used: EN 809:1998 + A1:2009.
- Low Voltage Directive (2006/95/EC).
Standards used: EN 60335-1:2012+ A11:2014, EN 60335-2-51:2003 + A1:2008 + A2:2012.
- EMC Directive (2004/108/EC).
Standards used: EN 60730-1:2000, EN 60730-1 + A16:2007.

These Directives and standards apply from 20th April 2016 and onwards:

- 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.
 - EMC Directive (2014/30/EU)
Standards used: EN60730-1:2000, EN 60730-1 + A16:2007.
- This EC declaration of conformity is only valid when published as part of the Grundfos Installation And Operating instructions (publication number 97727556 0316).

Bjerringbro, 21th Januar 2016



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