

CME Booster

Installation and operating instructions



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Declaration of conformity

(GB) Declaration of Conformity

We, Grundfos, declare under our sole responsibility that the product CME Booster, to which this declaration relates, is in conformity with these Council directives on the approximation of the laws of the EC member states:

- Machinery Directive (2006/42/EC)
Standards used: EN 809: 1998, EN 60204-1: 2006
- Low Voltage Directive (2006/95/EC)
Standards used: EN 60335-1: 2002, EN 60335-2-41: 2003
- EMC Directive (2004/108/EC)
Standard used: EN 61800-3: 2004.

(F) Déclaration de Conformité

Nous, Grundfos, déclarons sous notre seule responsabilité, que le produit CME Booster, auquel se réfère cette déclaration, est conforme aux Directives du Conseil concernant le rapprochement des législations des Etats membres CE relatives aux normes énoncées ci-dessous :

- Directive Machines (2006/42/CE).
Normes utilisées : EN 809 : 1998, EN 60204-1 : 2006.
- Directive Basse Tension (2006/95/CE).
Normes utilisées : EN 60335-1 : 2002, EN 60335-2-41 : 2003.
- Directive Compatibilité Electromagnétique CEM (2004/108/CE).
Norme utilisée : EN 61800-3: 2004.

(E) Declaración de Conformidad

Nosotros, Grundfos, declaramos bajo nuestra propia responsabilidad que el producto CME Booster, al cual se refiere esta declaración, está conforme con las Directivas del Consejo en la aproximación de las leyes de los Estados Miembros del EM:

- Directiva de Maquinaria (2006/42/CE).
Normas aplicadas: EN 809: 1998, EN 60204-1: 2006.
- Directiva de Baja Tensión (2006/95/CE).
Normas aplicadas: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Directiva EMC (2004/108/CE).
Norma aplicada: EN 61800-3: 2004.

(GR) Δήλωση Συμμόρφωσης

Εμείς η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα CME Booster, στα οποία αναφέρεται η παρούσα δήλωση, συμμορφώνονται με τις εξής Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ:

- Οδηγία για μηχανήματα (2006/42/ΕC).
Πρότυπα που χρησιμοποιήθηκαν: EN 809: 1998, EN 60204-1: 2006.
- Οδηγία χαμηλής τάσης (2006/95/ΕC).
Πρότυπα που χρησιμοποιήθηκαν: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Οδηγία Ηλεκτρομαγνητικής Συμβατότητας (EMC) (2004/108/ΕC).
Πρότυπο που χρησιμοποιήθηκε: EN 61800-3: 2004.

(S) Försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkten CME Booster, som omfattas av denna försäkran, är i överensstämmelse med rådets direktiv om inbördes närmande till EU-medlemsstaternas lagstiftning, avseende:

- Maskindirektivet (2006/42/EG).
Tillämpade standarder: EN 809: 1998, EN 60204-1: 2006.
- Lågspänningsdirektivet (2006/95/EG).
Tillämpade standarder: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMC-direktiv (2004/108/EG).
Tillämpad standard: EN 61800-3: 2004.

(DK) Overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produktet CME Booster som denne erklæring omhandler, er i overensstemmelse med disse af Rådets direktiver om indbyrdes tilnærmelse til EF-medlemsstaternes lovgivning:

- Maskindirektivet (2006/42/EF).
Anvendte standarder: EN 809: 1998, EN 60204-1: 2006.
- Lavspændingsdirektivet (2006/95/EF).
Anvendte standarder: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMC-direktiv (2004/108/EF).
Anvendt standard: EN 61800-3: 2004.

(D) Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass das Produkt CME Booster, auf das sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedstaaten übereinstimmt:

- Maschinenrichtlinie (2006/42/EG).
Normen, die verwendet wurden: EN 809: 1998, EN 60204-1: 2006.
- Niederspannungsrichtlinie (2006/95/EG).
Normen, die verwendet wurden: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMV-Richtlinie (2004/108/EG).
Normen, die verwendet wurden: EN 61800-3: 2004.

(I) Dichiarazione di Conformità

Grundfos dichiara sotto la sua esclusiva responsabilità che il prodotto CME Booster, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il ravvicinamento delle legislazioni degli Stati membri CE:

- Direttiva Macchine (2006/42/CE).
Norme applicate: EN 809: 1998, EN 60204-1: 2006.
- Direttiva Bassa Tensione (2006/95/CE).
Norme applicate: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Direttiva EMC (2004/108/CE).
Norma applicata: EN 61800-3: 2004.

(P) Declaração de Conformidade

A Grundfos declara sob sua única responsabilidade que o produto CME Booster, ao qual diz respeito esta declaração, está em conformidade com as seguintes Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da CE:

- Directiva Máquinas (2006/42/CE).
Normas utilizadas: EN 809: 1998, EN 60204-1: 2006.
- Directiva Baixa Tensão (2006/95/CE).
Normas utilizadas: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Directiva EMC (compatibilidade electromagnética) (2004/108/CE).
Norma utilizada: EN 61800-3: 2004.

(NL) Overeenkomstigheidsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat het product CME Booster waarop deze verklaring betrekking heeft, in overeenstemming is met de Richtlijnen van de Raad in zake de onderlinge aanpassing van de wetgeving van de EG lidstaten betreffende:

- Machine Richtlijn (2006/42/EC).
Gebruikte normen: EN 809: 1998, EN 60204-1: 2006.
- Laagspannings Richtlijn (2006/95/EC).
Gebruikte normen: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMC Richtlijn (2004/108/EC).
Gebruikte norm: EN 61800-3: 2004.

(FIN) Vaatimustenmukaisuusvakuutus

Me, Grundfos, vakuutamme omalla vastuullamme, että tuote CME Booster, jota tämä vakuutus koskee, on EY:n jäsenvaltioiden lainsäädännön yhdenmukaistamisen täytäntöön Euroopan neuvoston direktiivien vaatimusten mukainen seuraavasti:

- Konedirektiivi (2006/42/EY).
Sovellettavat standardit: EN 809: 1998, EN 60204-1: 2006.
- Pienjännitedirektiivi (2006/95/EY).
Sovellettavat standardit: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMC-direktiivi (2004/108/EY).
Sovellettu standardi: EN 61800-3: 2004.

(PL) Deklaracja zgodności

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze wyroby CME Booster, których deklaracja niniejsza dotyczy, są zgodne z następującymi wytycznymi Rady d/s ujednolicenia przepisów prawnych krajów członkowskich WE:

- Dyrektywa Maszynowa (2006/42/WE).
Zastosowane normy: EN 809: 1998, EN 60204-1: 2006.
- Dyrektywa Niskonapięciowa (LVD) (2006/95/WE).
Zastosowane normy: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Dyrektywa EMC (2004/108/WE).
Zastosowana norma: EN 61800-3: 2004.

(RU) Декларация о соответствии

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия CME Booster, к которым относится настоящая декларация, соответствуют следующим Директивам Совета Евросоюза об унификации законодательных предписаний стран-членов ЕС:

- Механические устройства (2006/42/EC).
- Применявшиеся стандарты: EN 809: 1998, EN 60204-1: 2006.
- Низковольтное оборудование (2006/95/EC).
- Применявшиеся стандарты: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Электромагнитная совместимость (2004/108/EC).
- Применяющийся стандарт: EN 61800-3: 2004.

(SI) Izjava o skladnosti

V Grundfosu s polno odgovornostjo izjavljamo, da so naši izdelki CME Booster, na katere se ta izjava nanaša, v skladu z naslednjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic ES:

- Direktiva o strojih (2006/42/ES).
- Uporabljeni normi: EN 809: 1998, EN 60204-1: 2006.
- Direktiva o nizki napetosti (2006/95/ES).
- Uporabljeni normi: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Direktiva o elektromagnetni združljivosti (EMC) (2004/108/ES).
- Uporabljena norma: EN 61800-3: 2004.

(SER) Deklaracija o konformitetu

Mi, Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod CME Booster, na koji se ova izjava odnosi, u skladu sa direktivama Saveta za usklađivanje zakona država članica EU:

- Direktiva za mašine (2006/42/EC).
- Korišćeni standardi: EN 809: 1998, EN 60204-1: 2006.
- Direktiva niskog napona (2006/95/EC).
- Korišćeni standardi: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMC direktiva (2004/108/EC).
- Korišćen standard: EN 61800-3: 2004.

(BG) Декларация за съответствие

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продукт CME Booster, за който се отнася настоящата декларация, отговаря на следните указания на Съвета за уеднаквяване на правните разпоредби на държавите членки на ЕС:

- Директива за машините (2006/42/EC).
- Приложени стандарти: EN 809: 1998, EN 60204-1: 2006.
- Директива за нисковолтови системи (2006/95/EC).
- Приложени стандарти: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Директива за електромагнитна съвместимост (2004/108/EC).
- Приложен стандарт: EN 61800-3: 2004.

(SK) Prehlásenie o konformite

My firma Grundfos prehlasujeme na svoju plnú zodpovednosť, že výrobok CME Booster, na ktorý sa toto prehlásenie vzťahuje, je v súlade s ustanovením smernice Rady pre zblíženie právnych predpisov členských štátov Európskeho spoločenstva v oblastiach:

- Smernica pre strojové zariadenie (2006/42/EC).
- Použité normy: EN 809: 1998, EN 60204-1: 2006.
- Smernica pre nízkonapäťové aplikácie (2006/95/EC).
- Použité normy: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Smernica pre elektromagnetickú kompatibilitu (2004/108/EC).
- Použitá norma: EN 61800-3: 2004.

(EE) Vastavusdeklaratsioon

Meie, Grundfos, deklareerime enda ainuvastutusel, et toode CME Booster, mille kohta käesolev juhend käib, on vastavuses EÜ Nõukogu direktiividega EMÜ liikmesriikide seaduste ühitamise kohta, mis käsitlevad:

- Masinate ohutus (2006/42/EC).
- Kasutatud standardid: EN 809: 1998, EN 60204-1: 2006.
- Madalpinge direktiiv (2006/95/EC).
- Kasutatud standardid: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Elektromagnetiline ühilduvus (EMC direktiiv) (2004/108/EC).
- Kasutatud standard: EN 61800-3: 2004.

(H) Megfelelősségi nyilatkozat

Mi, a Grundfos, egyedüli felelősséggel kijelentjük, hogy a CME Booster termék, amelyre jelen nyilatkozat vonatkozik, megfelel az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak:

- Gépek (2006/42/EK).
- Alkalmazott szabványok: EN 809: 1998, EN 60204-1: 2006.
- Kifeszültségű Direktíva (2006/95/EK).
- Alkalmazott szabványok: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMC Direktíva (2004/108/EK).
- Alkalmazott szabvány: EN 61800-3: 2004.

(HR) Izjava o usklađenosti

Mi, Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod CME Booster, na koji se ova izjava odnosi, u skladu sa direktivama ovog Vijeća o usklađivanju zakona država članica EU:

- Direktiva za strojeve (2006/42/EZ).
- Korištene norme: EN 809: 1998, EN 60204-1: 2006.
- Direktiva za niski napon (2006/95/EZ).
- Korištene norme: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Direktiva za elektromagnetsku kompatibilnost (2004/108/EZ).
- Korištena norma: EN 61800-3: 2004.

(RO) Declarație de Conformitate

Noi, Grundfos, declarăm pe propria răspundere că produsul CME Booster, la care se referă această declarație, sunt în conformitate cu aceste Directive de Consiliu asupra armonizării legilor Statelor Membre CE:

- Directiva Utilaje (2006/42/CE).
- Standarde utilizate: EN 809: 1998, EN 60204-1: 2006.
- Directiva Tensiune Joasă (2006/95/CE).
- Standarde utilizate: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Directiva EMC (2004/108/CE).
- Standard utilizat: EN 61800-3: 2004.

(CZ) Prohlášení o shodě

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobek CME Booster, na nějž se toto prohlášení vztahuje, je v souladu s ustanovením směrnice Rady pro sblížení právních předpisů členských států Evropského společenství v oblastech:

- Směrnice pro strojní zařízení (2006/42/ES).
- Použité normy: EN 809: 1998, EN 60204-1: 2006.
- Směrnice pro nízkonapěťové aplikace (2006/95/ES).
- Použité normy: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Směrnice pro elektromagnetickou kompatibilitu (EMC) (2004/108/ES).
- Použitá norma: EN 61800-3: 2004.

(TR) Uygunluk Bildirgesi

Grundfos olarak bu beyannameye konu olan CME Booster ürünlerinin, AB Üyesi Ülkelerin kanunlarını birbirine yaklaştırmaya üzerine KONSEY Direktifleriyle uyumlu olduğunun yalnızca bizim sorumluluğumuz altında olduğuna beyan ederiz:

- Makineler Yönetmeliği (2006/42/EC).
- Kullanılan standartlar: EN 809: 1998, EN 60204-1: 2006.
- Düşük Voltaj Yönetmeliği (2006/95/EC).
- Kullanılan standartlar: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMC Direktifi (2004/108/EC).
- Kullanılan standart: EN 61800-3: 2004.

(LT) Atitikties deklaracija

Meie, Grundfos, su visa atsakomybe pareiškiame, kad gaminytis CME Booster, kuriam skirta ši deklaracija, atitinka šias Tarybos Direktyvas dėl Europos Ekonominės Bendrijos šalių narių įstatymų suderinimo:

- Mašinų direktyva (2006/42/EB).
- Taikomi standartai: EN 809: 1998, EN 60204-1: 2006.
- Žemų įtampų direktyva (2006/95/EB).
- Taikomi standartai: EN 60335-1: 2002, EN 60335-2-41: 2003.
- EMS direktyva (2004/108/EB).
- Taikomas standartas: EN 61800-3: 2004.

(LV) Paziņojums par atbilstību prasībām

Sabiedrība GRUNDFOS ar pilnu atbildību dara zināmu, ka produkts CME Booster, uz kuru attiecas šis paziņojums, atbilst šādām Padomes direktīvām par tuvināšanos EK dalībvalstu likumdošanas normām:

- Mašīnbūves direktīva (2006/42/EK).
Piemērotie standarti: EN 809: 1998, EN 60204-1: 2006.
- Zema sprieguma direktīva (2006/95/EK).
Piemērotie standarti: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Elektromagnētiskās saderības direktīva (2004/108/EK).
Piemērotais standarts: EN 61800-3: 2004.

(UA) Свідчення про відповідність вимогам

Компанія Grundfos заявляє про свою виключну відповідальність за те, що продукт CME Booster, на який поширюється дана декларація, відповідає таким рекомендаціям Ради з уніфікації правових норм країн - членів ЄС:

- Механічні прилади (2006/42/EC).
Стандарти, що застосовувалися: EN 809: 1998, EN 60204-1: 2006.
- Низька напруга (2006/95/EC).
Стандарти, що застосовувалися: EN 60335-1: 2002, EN 60335-2-41: 2003.
- Електромагнітна сумісність (2004/108/EC).
Стандарти, що застосовувалися: EN 61800-3: 2004.

Bjerringbro, 1st April 2010



Svend Aage Kaae
Technical Director
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Person authorised to compile technical file
and empowered to sign the EC declaration.

English (GB) Installation and operating instructions

Original installation and operating instructions.

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Warning

Prior to installation, study the Quick Guide carefully. 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!

Caution

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

Note

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

2. System sizing



Warning

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

Caution

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

3. Mechanical installation



Warning

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

4. Electrical connection

The electrical connection should be carried out by an authorized electrician in accordance with local regulations.



Warning

Check that the supply voltage and frequency match the voltage and frequency 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.

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



5. Start-up



Caution


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


6. Control panel

The pump control panel, see fig. 1, incorporates the following buttons and indicator lights:

- Buttons,  and , for setpoint setting.
- Light fields, yellow, for indication of setpoint.
- Indicator lights, green (operation) and red (fault).

Set the desired setpoint by pressing button  or . The light fields on the control panel will indicate the setpoint set.

Continuously pressing button  will stop the pump.

Continuously pressing button  will increase setpoint to max.

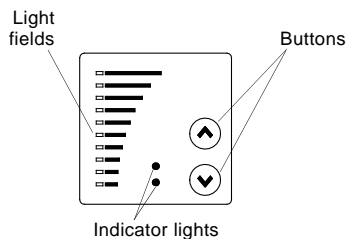


Fig. 1 Control panel

During normal operation the green indicator light is on.

In case of non-critical faults allowing continued operation of the pump, both the red and green indicator lights will be on.

In case of a critical fault stopping the pump, only the red indicator light will be on.

Caution

In case of a fault that cannot be reset, always call a Grundfos service man, even if the pump is able to continue operation.

7. Ambient temperature and altitude

If the ambient temperature exceeds +40 °C or if the pump is installed more than 1000 m above sea level, the motor must not be fully loaded due to the low density and consequently low cooling effect of the air. In such cases, it may be necessary to use a motor with a higher output.

Figure 2 shows that the load of a CME Booster must be reduced to 88 % when installed 3500 m above sea level. At an ambient temperature of 70 °C, the load must be reduced to 78 % of rated output.

In such situations, use an oversize motor.

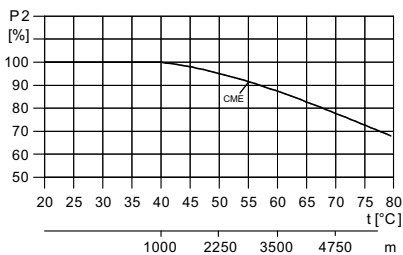


Fig. 2 P2 depends on temperature and altitude

TM00 7600 0304











TM04 3792 5008

8. Fault finding chart



Warning

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

Fault	Indicator lights		Cause	Remedy
	Red	Green		
1. Pump does not run.			a) Power supply failure.	Switch on power supply. Check cables and cable connections for defects and loose connections.
			b) Fuses blown.	Check cables and cable connections for defects, and replace the fuses.
			c) Sensor is defective.	Replace sensor.
2. 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 suction pipe.
			c) Leakage in suction pipe.	Remove and repair suction pipe.
			d) Air in suction pipe or pump.	Vent suction pipe or pump. Check the inlet conditions of the pump.
3. Pump can be reset but runs only for a few seconds			a) Pump inlet pressure too low.	Check the inlet conditions of the pump.
			b) Suction pipe is partly blocked by impurities.	Remove and clean suction pipe.
			c) The foot or non-return valve is blocked in closed position.	Remove and clean, repair or replace valve.
			d) Leakage in suction pipe.	Remove and repair the suction pipe.
			e) Air in suction pipe or pump.	Vent suction pipe or pump. Check the inlet conditions of the pump.
4. Pump runs backwards when switched off.			a) Leakage in suction pipe.	Remove and repair suction pipe.
			b) Foot or non-return valve defective.	Remove and clean, repair or replace valve.
			c) Foot valve is blocked in completely or partly open position.	Remove and clean, repair or replace valve.

9. 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.

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