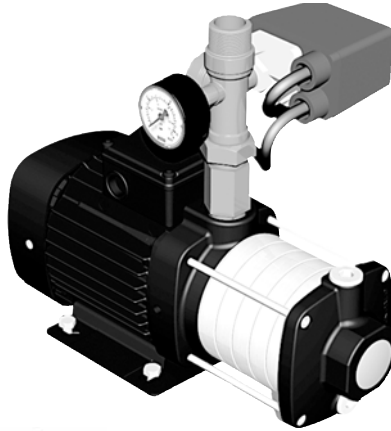


# CM Booster PS PT

Safety instructions and other important information



# English (GB) Safety instructions

Original supplement to Quick Guide

## CONTENTS

	Page
<b>1. General information</b>	<b>2</b>
1.1 Hazard statements	2
1.2 Notes	3
<b>2. Safety instructions</b>	<b>3</b>
2.1 Sizing the system	3
2.2 Mechanical installation	3
2.3 Electrical connection	3
2.4 Setting the pressure switch	4
2.5 Fault finding	4
<b>3. Applications</b>	<b>4</b>
<b>4. Sizing the system</b>	<b>4</b>
<b>5. Mechanical installation</b>	<b>5</b>
<b>6. Electrical connection</b>	<b>5</b>
<b>7. Starting up the product</b>	<b>5</b>
7.1 Shaft seal run-in	5
<b>8. Adjusting the pressure</b>	<b>5</b>
8.1 Calculating the start and stop pressures	5
8.2 Adjusting the precharge pressure	6
8.3 Setting the start and stop pressure	6
<b>9. Operating and maintaining the product</b>	<b>6</b>
9.1 Drinking water systems	7
9.2 Cable requirements	7
<b>10. Protecting the product against frost</b>	<b>7</b>
<b>11. Technical data</b>	<b>7</b>
<b>12. Fault finding</b>	<b>8</b>
<b>13. Disposal</b>	<b>9</b>

## 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.



Read this document and the quick guide 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.

## 1.2 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.

### DANGER



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

## 2. Safety instructions

### 2.1 Sizing the system

#### CAUTION

#### Pressurised system

Minor or moderate personal injury



- Make sure that the system incorporating the product is designed for the maximum pump pressure.

### 2.2 Mechanical installation

#### DANGER

#### 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 accidentally switched on.

### 2.3 Electrical connection

#### DANGER

#### Electric shock

Death or serious personal injury



- Never make any connections in the pump terminal box unless the power supply has been switched off. Connect the pump to earth.

**DANGER****Electric shock**

Death or serious personal injury

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

**2.4 Setting the pressure switch****DANGER****Electric shock**

Death or serious personal injury

- Switch off the power supply before you adjust the pressure switch.



Fit the cover on the pressure switch before switching on the power supply to check the start and stop pressures.

**2.5 Fault finding****DANGER****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 accidentally switched on.

**3. Applications**

The CM Booster is suitable for pressure boosting of clean fresh water in domestic water supply systems.

**4. Sizing the system****CAUTION****Pressurised system**

Minor or moderate personal injury

- Make sure that the system incorporating the product is designed for the maximum pump pressure.



For the default setting, see the quick guide.

## 5. Mechanical installation

### DANGER

#### 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 accidentally switched on.



Make sure that the pump is not stressed by the pipes.

## 6. Electrical connection

Carry out the electrical connection according to local regulations.



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

### DANGER

#### Electric shock



- Death or serious personal injury
- Never make any connections in the pump terminal box unless the power supply has been switched off. Connect the pump to earth.

### DANGER

#### Electric shock



- Death or serious personal injury
- Power cables without a plug must be connected to a power disconnecting device incorporated in the fixed wiring according to the local wiring rules.



We recommend that you fit the permanent installation with an earth leakage circuit breaker (ELCB, GFCI) or a residual-current circuit breaker (RCD) of type B with a tripping current below 30 mA.

Single-phase motors incorporate a thermal switch and require no additional motor protection.

Connect three-phase motors to an external mains switch and a motor-protective circuit breaker.

## 7. Starting up the product



Fill the system with liquid before starting the pump.

### 7.1 Shaft seal run-in

The shaft-seal faces are lubricated by the pumped liquid. As a result, there may be a certain amount of leakage from the shaft seal.

When the pump is started up for the first time, or when a new shaft seal is installed, 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, i.e. every time the operating conditions change, a new run-in period will be started.

Under normal conditions, the leaking liquid evaporates. As a result, no leakage is detected.

## 8. Adjusting the pressure



See the default setting in the quick guide.

If the pressure is not suitable for the application, adjust according to the following instructions.

### 8.1 Calculating the start and stop pressures

The start pressure is the sum of these variables:

- required minimum pressure at the highest tapping point
- head from the pump to the highest tapping point
- pressure loss in pipes.

Recommended stop pressure:

Start pressure +0.8 - 1.5 bar.



Make sure that the stop pressure does not exceed the maximum pump outlet pressure.

## 8.2 Adjusting the precharge pressure

When the pump start pressure has been determined, you can calculate the required precharge pressure of the diaphragm tank. Adjust the precharge pressure to 90 % of the start pressure.



When adjusting or reading the precharge pressure, make sure that there is no water pressure on the diaphragm tank from the pipes.



See the installation and operating instructions for the diaphragm tank. If the pressure switch setting is changed, adjust the precharge pressure.

## 8.3 Setting the start and stop pressure

### DANGER

#### Electric shock



- Death or serious personal injury
- Switch off the power supply before adjusting the pressure switch.
- Fit the cover on the pressure switch before switching on the power supply to check the start and stop pressure.

During this task, open the water intake and use the pump gauge to check the start and stop pressure.

1. Loosen the nut (1) completely.
2. Adjust the nut (2) until you reach the desired start pressure.
  - Clockwise: increase the start pressure.
  - Counterclockwise: decrease the start pressure.
3. Adjust the nut (1) until you reach the desired stop pressure.
  - Clockwise: increase the stop pressure.
  - Counterclockwise: decrease the stop pressure.

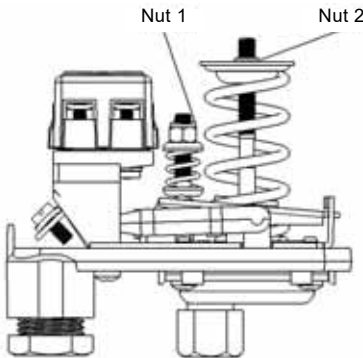


Fig. 1 Pressure switch

## 9. Operating and maintaining the product

### DANGER

#### 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
- Before dismantling the pump, drain the system or close the isolating valves on both sides of the pump.
- Slowly loosen the drain plug and depressurise the system.

### CAUTION

#### Impurities in the water



- Minor or moderate personal injury
- Before the pump is used for supplying drinking water, flush the pump thoroughly with clean water.

### DANGER

#### Contaminated drinking water



- Death or serious personal injury
- Flush the system before starting it or after a standstill period.



Flush the system with clean water to remove all impurities before you start the pump.



Do not cover the motor. Make sure that an adequate supply of cool air reaches the motor cooling fan.

TM07 5249 08 19

## 9.1 Drinking water systems

### Hygiene

Grundfos pressure booster systems are functionally tested by running water through the system. During testing, Grundfos continuously surveys the quality of the tested 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 use in the drinking water sector due to risk of bacterial 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.

### 9.2 Cable requirements

#### 1 x 200-230 V

Power [kW]	Cross-section	
	[mm <sup>2</sup> ]	[AWG]
0.25 - 1.5	1.5 - 2.5	16-12

#### 3 x 380-500 V

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

#### 3 x 380-500 V

Power [kW]	Cross-section	
	[mm <sup>2</sup> ]	[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).

## 10. Protecting the product against frost

If there is a risk of frost, drain the tank and pump of water.

## 11. Technical data

### Ambient temperature

See the nameplate.

### Storage temperature

Minimum -10 °C

Maximum +45 °C

Liquid temperature

See the nameplate.

### System pressure

See the nameplate.

### Inlet pressure

At inlet pressures above 1.5 bar, the outlet pressure must be at least 2.5 bar.

### Maximum head

See the nameplate.

### Supply voltage

See the nameplate.

### Insulation class

F.

### Enclosure class

See the nameplate.

### Relative air humidity

Maximum 95 %.

### Start/stop frequency

Maximum 20 per hour.

## 12. Fault finding

### DANGER

#### Electric shock



Death or serious personal injury

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

Fault	Cause	Remedy
1. The pump does not start.	a) The fuses in the electrical installation have blown.	Replace the fuses. If the new fuses also blow, check the electrical installation.
	b) The voltage-operated circuit breaker or current-operated circuit breaker has tripped.	Cut in the circuit breaker and check the electrical installation.
2. There is power on the pressure switch but not on the pump.	a) The power supply to the pump is disconnected after the pressure switch.	Check the cable connections.
	b) The pressure switch is defective.	Repair or replace the pressure switch.*
3. The pump does not start when water is consumed.	a) The difference in height between the pressure switch and the tapping point is too large.	Adjust the cut-in pressure.
	b) The pressure switch is defective.	Repair or replace the pressure switch.*
4. Frequent starts and stops.	a) Leakage in the pipes.	Check and repair the pipes.
	b) The pressure tank has no precharge pressure, or the tank size is insufficient.	Check the tank precharge pressure, and recharge the tank, if necessary. See section <a href="#">8.2 Adjusting the precharge pressure</a> .
5. The pump does not stop.	a) The pressure switch is defective.	Repair or replace the pressure switch.*
6. The motor cuts out during operation.	a) Single-phase motors: The thermal switch in the motor has tripped due to overheating.	The thermal switch cuts in automatically when the motor has cooled. If the problem still persists, check these two possible causes: <ul style="list-style-type: none"> <li>• The impeller is stuck. Clean the pump.</li> <li>• The motor is defective. Repair or replace the motor.*</li> </ul>
	b) Three-phase motors: The motor-protective circuit breaker has tripped.	Cut in the motor-protective circuit breaker. If the problem still persists, check these two possible causes: <ul style="list-style-type: none"> <li>• The impeller is stuck. Clean the pump.</li> <li>• The motor is defective. Repair or replace the motor.*</li> </ul>

\* Alternatively, contact the nearest Grundfos company or service workshop.



### 13. 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.



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 on [www.grundfos.com/products/product-sustainability/product-recycling](http://www.grundfos.com/products/product-sustainability/product-recycling).

## Declaration of conformity

**GB: EU declaration of conformity**

We, Grundfos, declare under our sole responsibility that the products CM Booster PS, CM Booster PT, 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.

**CZ: Prohlášení o shodě EU**

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

**DK: EU-overensstemmelseserklæring**

Vi, Grundfos, erklærer under ansvar at produkterne CM Booster PS, CM Booster PT som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

**ES: Declaración de conformidad de la UE**

Grundfos declara, bajo su exclusiva responsabilidad, que los productos CM Booster PS, CM Booster PT 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 UE.

**FR: Déclaration de conformité UE**

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

**HR: EU deklaracija sukladnosti**

Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi CM Booster PS, CM Booster PT, na koja se izjava odnosi u nastavku, u skladu s direktivama Vijeća dole navedene o usklađivanju zakona država članica EU-a.

**IT: Dichiarazione di conformità UE**

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti CM Booster PS, CM Booster PT, ai quali si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

**LV: ES atbilstības deklarācija**

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti CM Booster PS, CM Booster PT, uz kuri attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES dalībvalstu normatīvo aktu tuvināšanu.

**PL: Deklaracja zgodności UE**

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

**RO: Declarația de conformitate UE**

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

**RU: Декларация о соответствии нормам ЕС**

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия CM Booster PS, CM Booster PT, к которым относится нижеприведённая декларация, соответствуют нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

**BG: Декларация за съответствие на ЕО**

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите CM Booster PS, CM Booster PT, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕО.

**DE: EU-Konformitätserklärung**

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte CM Booster PS, CM Booster PT, auf die sich diese Erklärung beziehen, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmen.

**EE: ELi vastavusdeklaratsioon**

Meie, Grundfos, kinnitame ja kanname ainuiskulist vastutust selle eest, et toode CM Booster PS, CM Booster PT, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlastamise kohta EL liikmesriikides.

**FI: EU-vaatimustenmukaisuusvakuutus**

Grundfos vakuuttaa omalla vastuullaan, että tuotteet CM Booster PS, CM Booster PT, joita tämä vakuutus koskee, ovat EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

**GR: Δήλωση συμμόρφωσης ΕΕ**

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

**HU: EU megfeleléségi nyilatkozat**

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) CM Booster PS, CM Booster PT termék, amelyre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összefhangoló tanács alábbi előírásainak.

**LT: ES atitikties deklaracija**

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktai CM Booster PS, CM Booster PT, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

**NL: EU-conformiteitsverklaring**

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten CM Booster PS, CM Booster PT, 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 EU-lidstaten.

**PT: Declaração de conformidade UE**

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

**RS: Deklaracija o usklađenosti EU**

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod CM Booster PS, CM Booster PT, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanom direktivama Saveta za usklađivanje zakona država članica EU.

**SE: EU-försäkran om överensstämmelse**

Vi, Grundfos, försäkrar under ansvar att produkterna CM Booster PS, CM Booster PT, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

**SI: Izjava o skladnosti EU**

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

**TR: AB uygunluk bildirgesi**

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

**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 PS, CM Booster PT 系列，其制造和性能完全符合以下所列欧盟委员会指令。

**SK: Prehásenie o zhode s EU**

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty CM Booster PS, CM Booster PT na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

**UA: Декларація відповідності директивам ЕU**

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби CM Booster PS, CM Booster PT, до яких відноситься нижченаведена декларація, відповідають директивам ЕU, переліченим нижче, щодо тотожності законів країн-членів ЄС.

**ID: Deklarasi kesesuaian Uni Eropa**

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

- 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.  
  
Applies from 22.07.2019.
- RoHS Directives (2011/65/EU and 2015/863/EU)  
Standard used:  
EN 50581:2012.

This EU declaration of conformity is only valid when published as part of the Grundfos Installation and Operating Instructions (publication number 98175689 0219).

Bjerringbro, 28th September 2018



Florian Joseph  
Program Engineering Manager  
Grundfos Holding A/S  
Poul Due Jensens Vej 7  
8850 Bjerringbro, Denmark

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

## Declaration of conformity

## 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 Grundfos products:  
CM Booster PS and PT

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 60335-2-51:2013

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

Bjerringbro, 20.12.2019

Florian Joseph  
Program Engineering Manager  
Grundfos Holding A/S  
Poul Due Jensens Vej 7  
8850 Bjerringbro, Denmark

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

10000091333

**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:  
CM Booster PS and PT

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 60335-2-51:2013

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

Bjerringbro, 20.12.2019

Florian Joseph  
Program Engineering Manager  
Grundfos Holding A/S  
Poul Due Jensens Vej 7  
8850 Bjerringbro, Denmark

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

10000091333



## AR: إقرار المطابقة المغربي

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

سار على منتجات جرونډفوس:  
CM Booster PS and PT

قانون رقم 09-24، 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-  
51:2013

يكون إقرار المطابقة المغربي صالحا فقط عند نشره كجزء من تعليمات  
جرونډفوس.

Bjerringbro, 20.12.2019

Florian Joseph  
Program Engineering Manager  
Grundfos Holding A/S  
Poul Due Jensens Vej 7  
8850 Bjerringbro, Denmark

الجهة المصنعة والشخص المفوض بتوقيع إقرار المطابقة المغربي.

10000091333

RUS

**СМВ**

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 СМВ 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 С-ДК.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

**СМВ**

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 тақтасында орналасқан шығарылған уақыты жөніндегі мәлімет

Сертификаттау туралы ақпарат:

СМВ 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 сертификатталды.

Сәйкестік сертификаты:

№ ТС RU С-ДК.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

## CMB

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

CMB түрүндөгү соргучтар Бажы Биримдиктин Техникалык регламенттин талаптарына ылайыктуу

тастыкталган: TP ТБ 004/2011 «Төмөн вольттук жабдуунун коопсуздугу жөнүндө»; TP ТБ 010/2011 «Жабдуу

жана машиналардын коопсуздугу жөнүндө»; TP ТБ 020/2011 «Техникалык каражаттардын электрмагниттик шайкештиги».

Шайкештик сертификаты:

№ TC RU C-ДК.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

## CMB

Շահագործման ձեռնարկ

Տվյալ սարքավորման շահագործման ձեռնարկը բաղկացած է մի քանի մասերից.

Մաս 1. սույն «Շահագործման ձեռնարկ»:

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

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

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

Տեղեկություններ հավաստագրման մասին

CMB 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-ДК.АИ30.В.01127, գործողության ժամկետը մինչև՝ 24.11.2019թ

Տրված է՝

«ԻՎԱՆՈՎՈ-ՍԵՐՏԻՖԻԿԱՏ» ապրանքների սերտիֆիկացման մարմնի կողմից:

«Իվանովոյի Մերտիֆիկացման հիմնադրամ» ՍՊԸ :

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



<http://net.grundfos.com/qr/i/98768077>

10000104704 0616

ECM: 1187081

**Argentina**

Bombas GRUNDFOS de Argentina S.A.  
Ruta Panamericana km. 37.500 Centro  
Industrial Garin  
1619 Garin Pcia. de B.A.  
Phone: +54-3327 414 444  
Telefax: +54-3327 45 3190

**Australia**

GRUNDFOS Pumps Pty. Ltd.  
P.O. Box 2040  
Regency Park  
South Australia 5942  
Phone: +61-8-8461-4611  
Telefax: +61-8-8340 0155

**Austria**

GRUNDFOS Pumpen Vertrieb  
Ges.m.b.H.  
Grundfosstraße 2  
A-5082 Grödig/Salzburg  
Tel.: +43-6246-883-0  
Telefax: +43-6246-883-30

**Belgium**

N.V. GRUNDFOS Bellux S.A.  
Boomsesteenweg 81-83  
B-2630 Aartselaar  
Tél.: +32-3-870 7300  
Télécopie: +32-3-870 7301

**Belarus**

Представительство ГРУНДФОС в  
Минске  
220125, Минск  
ул. Шафарнянская, 11, оф. 56, БЦ  
«Порт»  
Тел.: +7 (375 17) 286 39 72/73  
Факс: +7 (375 17) 286 39 71  
E-mail: minsk@grundfos.com

**Bosnia and Herzegovina**

GRUNDFOS Sarajevo  
Zmaja od Bosne 7-7A,  
BH-71000 Sarajevo  
Phone: +387 33 592 480  
Telefax: +387 33 590 465  
www.ba.grundfos.com  
e-mail: grundfos@bih.net.ba

**Brazil**

BOMBAS GRUNDFOS DO BRASIL  
Av. Humberto de Alencar Castelo  
Branco, 630  
CEP 09850 - 300  
São Bernardo do Campo - SP  
Phone: +55-11 4393 5533  
Telefax: +55-11 4343 5015

**Bulgaria**

Grundfos Bulgaria EOOD  
Slatina District  
Iztochna Tangenta street no. 100  
BG - 1592 Sofia  
Tel. +359 2 49 22 200  
Fax. +359 2 49 22 201  
email: bulgaria@grundfos.bg

**Canada**

GRUNDFOS Canada Inc.  
2941 Brighton Road  
Oakville, Ontario  
L6H 6C9  
Phone: +1-905 829 9533  
Telefax: +1-905 829 9512

**China**

GRUNDFOS Pumps (Shanghai) Co. Ltd.  
10F The Hub, No. 33 Suhong Road  
Minhang District  
Shanghai 201106  
PRC  
Phone: +86 21 612 252 22  
Telefax: +86 21 612 253 33

**COLOMBIA**

GRUNDFOS Colombia S.A.S.  
Km 1.5 vía Siberia-Cota Conj. Potrero  
Chico,  
Parque Empresarial Arcos de Cota Bod.  
1A.  
Cota, Cundinamarca  
Phone: +57(1)-2913444  
Telefax: +57(1)-8764586

**Croatia**

GRUNDFOS CROATIA d.o.o.  
Buzinski prilaz 38, Buzin  
HR-10010 Zagreb  
Phone: +385 1 6595 400  
Telefax: +385 1 6595 499  
www.hr.grundfos.com

**GRUNDFOS Sales Czechia and Slovakia s.r.o.**

Čajkovského 21  
779 00 Olomouc  
Phone: +420-585-716 111

**Denmark**

GRUNDFOS DK A/S  
Martin Bachs Vej 3  
DK-8850 Bjerringbro  
Tlf.: +45-87 50 50 50  
Telefax: +45-87 50 51 51  
E-mail: info\_GDK@grundfos.com  
www.grundfos.com/DK

**Estonia**

GRUNDFOS Pumps Eesti OÜ  
Peterburi tee 92G  
11415 Tallinn  
Tel: + 372 606 1690  
Fax: + 372 606 1691

**Finland**

OY GRUNDFOS Pumput AB  
Trukkikuja 1  
FI-01360 Vantaa  
Phone: +358-(0) 207 889 500

**France**

Pompes GRUNDFOS Distribution S.A.  
Parc d'Activités de Chesnes  
57, rue de Malacombe  
F-38290 St. Quentin Fallavier (Lyon)  
Tél.: +33-4 74 82 15 15  
Télécopie: +33-4 74 94 10 51

**Germany**

GRUNDFOS GMBH  
Schlüterstr. 33  
40699 Erkrath  
Tel.: +49-(0) 211 929 69-0  
Telefax: +49-(0) 211 929 69-3799  
e-mail: infoservice@grundfos.de  
Service in Deutschland:  
e-mail: kundendienst@grundfos.de

**Greece**

GRUNDFOS Hellas A.E.B.E.  
20th km. Athinon-Markopoulou Av.  
P.O. Box 71  
GR-19002 Peania  
Phone: +0030-210-66 83 400  
Telefax: +0030-210-66 46 273

**Hong Kong**

GRUNDFOS Pumps (Hong Kong) Ltd.  
Unit 1, Ground floor  
Siu Wai Industrial Centre  
29-33 Wing Hong Street &  
68 King Lam Street, Cheung Sha Wan  
Kowloon  
Phone: +852-27861706 / 27861741  
Telefax: +852-27858664

**Hungary**

GRUNDFOS Hungária Kft.  
Tópark u. 8  
H-2045 Törökbálint,  
Phone: +36-23 511 110  
Telefax: +36-23 511 111

**India**

GRUNDFOS Pumps India Private  
Limited  
118 Old Mahabalipuram Road  
Thoraipakkam  
Chennai 600 096  
Phone: +91-44 2496 6800

**Indonesia**

PT. GRUNDFOS POMPA  
Graha Intirub Lt. 2 & 3  
Jln. Cililitan Besar No.454. Makasar,  
Jakarta Timur  
ID-Jakarta 13650  
Phone: +62 21-469-51900  
Telefax: +62 21-460 6910 / 460 6901

**Ireland**

GRUNDFOS (Ireland) Ltd.  
Unit A, Merrywell Business Park  
Ballymount Road Lower  
Dublin 12  
Phone: +353-1-4089 800  
Telefax: +353-1-4089 830

**Italy**

GRUNDFOS Pompe Italia S.r.l.  
Via Gran Sasso 4  
I-20060 Truccazzano (Milano)  
Tel.: +39-02-95838112  
Telefax: +39-02-95309290 / 95838461

**Japan**

GRUNDFOS Pumps K.K.  
1-2-3, Shin-Miyakoda, Kita-ku,  
Hamamatsu  
431-2103 Japan  
Phone: +81 53 428 4760  
Telefax: +81 53 428 5005

**Korea**

GRUNDFOS Pumps Korea Ltd.  
6th Floor, Aju Building 679-5  
Yeoksam-dong, Kangnam-ku, 135-916  
Seoul, Korea  
Phone: +82-2-5317 600  
Telefax: +82-2-5633 725

**Latvia**

SIA GRUNDFOS Pumps Latvia  
Deglava biznesa centrs  
Augusta Deglava ielā 60, LV-1035, Rīga,  
Tālr.: + 371 714 9640, 7 149 641  
Faks: + 371 914 9646

**Lithuania**

GRUNDFOS Pumps UAB  
Smolensko g. 6  
LT-03201 Vilnius  
Tel: + 370 52 395 430  
Fax: + 370 52 395 431



## Malaysia

GRUNDFOS Pumps Sdn. Bhd.  
7 Jalan Peguam U1/25  
Glenmarie Industrial Park  
40150 Shah Alam  
Selangor  
Phone: +60-3-5569 2922  
Telefax: +60-3-5569 2866

## Mexico

Bombas GRUNDFOS de México S.A. de C.V.  
Boulevard TLC No. 15  
Parque Industrial Stiva Aeropuerto  
Apodaca, N.L. 66600  
Phone: +52-81-8144 4000  
Telefax: +52-81-8144 4010

## Netherlands

GRUNDFOS Netherlands  
Veluwezoom 35  
1326 AE Almere  
Postbus 22015  
1302 CA ALMERE  
Tel.: +31-88-478 6336  
Telefax: +31-88-478 6332  
E-mail: info\_gnl@grundfos.com

## New Zealand

GRUNDFOS Pumps NZ Ltd.  
17 Beatrice Tinsley Crescent  
North Harbour Industrial Estate  
Auckland  
Phone: +64-9-415 3240  
Telefax: +64-9-415 3250

## Norway

GRUNDFOS Pumper A/S  
Strømsveien 344  
Postboks 235, Leirdal  
N-1011 Oslo  
Tlf.: +47-22 90 47 00  
Telefax: +47-22 32 21 50

## Poland

GRUNDFOS Pompy Sp. z o.o.  
ul. Klonowa 23  
Baranowo k. Poznania  
PL-62-081 Przeźmierowo  
Tel: (+48-61) 650 13 00  
Fax: (+48-61) 650 13 50

## Portugal

Bombas GRUNDFOS Portugal, S.A.  
Rua Calvet de Magalhães, 241  
Apartado 1079  
P-2770-153 Paço de Arcos  
Tel.: +351-21-440 76 00  
Telefax: +351-21-440 76 90

## Romania

GRUNDFOS Pompe România SRL  
Bd. Biruintei, nr 103  
Pantelimon county Ilfov  
Phone: +40 21 200 4100  
Telefax: +40 21 200 4101  
E-mail: romanian@grundfos.ro

## Russia

ООО Грундфос Россия  
ул. Школьная, 39-41  
Москва, RU-109544, Russia  
Тел. (+7) 495 564-88-00 (495)  
737-30-00  
Факс (+7) 495 564 8811  
E-mail grundfos.moscow@grundfos.com

## Serbia

Grundfos Srbija d.o.o.  
Omladinskih brigada 90b  
11070 Novi Beograd  
Phone: +381 11 2258 740  
Telefax: +381 11 2281 769  
www.rs.grundfos.com

## Singapore

GRUNDFOS (Singapore) Pte. Ltd.  
25 Jalan Tukang  
Singapore 619264  
Phone: +65-6681 9688  
Telefax: +65-6681 9689

## Slovakia

GRUNDFOS s.r.o.  
Prievozská 4D  
821 09 BRATISLAVA  
Phona: +421 2 5020 1426  
sk.grundfos.com

## Slovenia

GRUNDFOS LJUBLJANA, d.o.o.  
Leskovoška 9e, 1122 Ljubljana  
Phone: +386 (0) 1 568 06 10  
Telefax: +386 (0) 1 568 06 19  
E-mail: tehnika-si@grundfos.com

## South Africa

Grundfos (PTY) Ltd.  
16 Lascelles Drive, Meadowbrook Estate  
1609 Germiston, Johannesburg  
Tel.: (+27) 10 248 6000  
Fax: (+27) 10 248 6002  
E-mail: lgradidge@grundfos.com

## Spain

Bombas GRUNDFOS España S.A.  
Camino de la Fuentesilla, s/n  
E-28110 Algete (Madrid)  
Tel.: +34-91-848 8800  
Telefax: +34-91-628 0465

## Sweden

GRUNDFOS AB  
Box 333 (Lunnagårdsgatan 6)  
431 24 Mölndal  
Tel.: +46 31 332 23 000  
Telefax: +46 31 331 94 60

## Switzerland

GRUNDFOS Pumpen AG  
Bruggacherstrasse 10  
CH-8117 Fällanden/ZH  
Tel.: +41-44-806 8111  
Telefax: +41-44-806 8115

## Taiwan

GRUNDFOS Pumps (Taiwan) Ltd.  
7 Floor, 219 Min-Chuan Road  
Taichung, Taiwan, R.O.C.  
Phone: +886-4-2305 0868  
Telefax: +886-4-2305 0878

## Thailand

GRUNDFOS (Thailand) Ltd.  
92 Chaloein Phrakiat Rama 9 Road,  
Dokmai, Pravej, Bangkok 10250  
Phone: +66-2-725 8999  
Telefax: +66-2-725 8998

## Turkey

GRUNDFOS POMPA San. ve Tic. Ltd. Sti.  
Gebze Organize Sanayi Bölgesi  
İhsan dede Caddesi,  
2. yol 200. Sokak No. 204  
41490 Gebze/ Kocaeli  
Phone: +90 - 262-679 7979  
Telefax: +90 - 262-679 7905  
E-mail: satis@grundfos.com

## Ukraine

Бізнес Центр Європа  
Столичне шосе, 103  
м. Київ, 03131, Україна  
Телефон: (+38 044) 237 04 00  
Факс.: (+38 044) 237 04 01  
E-mail: ukraine@grundfos.com

## United Arab Emirates

GRUNDFOS Gulf Distribution  
P.O. Box 16768  
Jebel Ali Free Zone  
Dubai  
Phone: +971 4 8815 166  
Telefax: +971 4 8815 136

## United Kingdom

GRUNDFOS Pumps Ltd.  
Grovebury Road  
Leighton Buzzard/Beds. LU7 4TL  
Phone: +44-1525-850000  
Telefax: +44-1525-850011

## U.S.A.

GRUNDFOS Pumps Corporation  
9300 Loiret Blvd.  
Lenexa, Kansas 66219  
Phone: +1-913-227-3400  
Telefax: +1-913-227-3500

## Uzbekistan

Grundfos Tashkent, Uzbekistan The  
Representative Office of Grundfos  
Kazakhstan in Uzbekistan  
38a, Oybek street, Tashkent  
Телефон: (+998) 71 150 3290 / 71 150  
3291  
Факс: (+998) 71 150 3292

Addresses Revised 15.01.2019

<b>97896762</b> 1219
----------------------

ECM: 1268480
--------------

Trademarks displayed in this material, including but not limited to Grundfos, the Grundfos logo and "be think innovate" are registered trademarks owned by The Grundfos Group. All rights reserved. © 2020 Grundfos Holding A/S, all rights reserved.