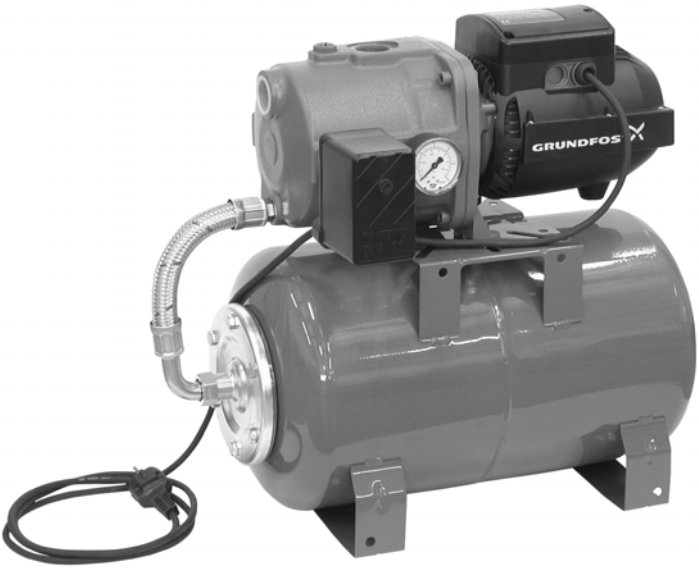
JP Basic Booster

Installation and operating instructions



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Declaration of conformity

GB: EC declaration of conformity

We, Grundfos, declare under our sole responsibility that the product JP Basic 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).
  Standard used: EN 809: 2009.
- Low Voltage Directive (2006/95/EC).
  Standards used: EN 60335-1: 2002 and EN 60335-2-41: 2003.
- EMC Directive (2004/108/EC).
  Standards used: EN 60730-1: 2000 and EN 60730-1, A16: 2007.
- 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.

BG: ЕС декларация за съответствие

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продукта JP Basic 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).
  Приложен стандарт: EN 809: 2009.
- Директива за нисковолтови системи (2006/95/EC).
  Приложени стандарти: EN 60335-1: 2002 и EN 60335-2-41: 2003.
- Директива за електромагнитна съвместимост (2004/108/EC).
  Приложени стандарти: EN 60730-1: 2000 и EN 60730-1, A16: 2007.
- Директива за екодизайн (2009/125/EC).
  Електродвигатели:
  Регламент на Комисията № 640/2009.
  Отнася се само за трифазни електродвигатели на Grundfos, маркирани с IE2 или IE3. Вижте табелата с данни на двигателя.
  Приложен стандарт: EN 60034-30: 2009.

CZ: ES prohlášení o shodě

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

- Směrnice pro strojní zařízení (2006/42/ES).
  Použitá norma: EN 809: 2009.
- Směrnice pro nízkonapěťové aplikace (2006/95/ES).
  Použité normy: EN 60335-1: 2002 a EN 60335-2-41: 2003.
- Směrnice pro elektromagnetickou kompatibilitu (EMC) (2004/108/ES).
  Použité normy: EN 60730-1: 2000 a EN 60730-1, A16: 2007.
- Směrnice o požadavcích na ekodesign (2009/125/ES).
  Elektrické motory:
  Nařízení Komise č. 640/2009.
  Platí pouze pro třífázové motory Grundfos označené IE2 nebo IE3.
  Viz typový štítek motoru.
  Použitá norma: EN 60034-30: 2009.

HR: EZ izjava o usklađenosti

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

- Direktiva za strojeve (2006/42/EZ).
  Korištena norma: EN 809: 2009.
- Direktiva za niski napon (2006/95/EZ).
  Korištene norme: EN 60335-1: 2002 i EN 60335-2-41: 2003.
- Direktiva za elektromagnetsku kompatibilnost (2004/108/EZ).
  Korištene norme: EN 60730-1: 2000 i EN 60730-1, A16: 2007.
- Direktiva o ekološkoj izvedbi (2009/125/EZ).
  Električni motori:
  Regulativa komisije br. 640/2009.
  Odnosi se samo na trofazne Grundfos motore s oznakama IE2 ili IE3. Pogledajte natpisnu pločicu motora.
  Korištena norma: EN 60034-30: 2009.

HU: EK megfelelőségi nyilatkozat

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

- Gépek (2006/42/EK).
  Alkalmazott szabvány: EN 809: 2009.
- Kisfeszültségű Direktíva (2006/95/EK).
  Alkalmazott szabványok: EN 60335-1: 2002 és EN 60335-2-41: 2003.
- EMC Direktíva (2004/108/EK).
  Alkalmazott szabványok: EN 60730-1: 2000 és EN 60730-1, A16: 2007.
- Környezetbarát tervezésre vonatkozó irányelv (2009/125/EK).
  Villamos motorok:
  A Bizottság 640/2009/EK rendelete.
  Csak az IE2 vagy IE3 jelzésű háromfázisú Grundfos motorokra vonatkozik. Lásd a motor adattábláját.
  Alkalmazott szabvány: EN 60034-30: 2009.

UA: Свідчення про відповідність вимогам ЄС

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

- Механічні прилади (2006/42/ЄС).
  Стандарти, що застосовувалися: EN 809: 2009.
- Низька напруга (2006/95/ЄС).
  Стандарти, що застосовувалися: EN 60335-1: 2002 та EN 60335-2-41: 2003.
- Електромагнітна сумісність (2004/108/ЄС).
  Стандарти, що застосовувалися: EN 60730-1: 2000 та EN 60730-1, A16: 2007.
- Директива з екодизайну (2009/125/ЄС).
  Електродвигуни:
  Постанова Комісії № 640/2009.
  Застосовується тільки до трифазних електродвигунів Grundfos, позначених IE2 або IE3. Дивіться паспортну табличку електродвигуна.
  Стандарти, що застосовувалися: EN 60034-30: 2009.

PL: Deklaracja zgodności WE

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

- Dyrektywa Maszynowa (2006/42/WE).
  Zastosowana norma: EN 809: 2009.
- Dyrektywa Niskonapięciowa (LVD) (2006/95/WE).
  Zastosowane normy: EN 60335-1: 2002 oraz EN 60335-2-41: 2003.
- Dyrektywa EMC (2004/108/WE).
  Zastosowane normy: EN 60730-1: 2000 oraz EN 60730-1, A16: 2007.
- Dyrektywa Ekoprojektowa (2009/125/WE).
  Silniki elektryczne:
  Rozporządzenie Komisji (WE) Nr 640/2009.
  Dotyczy tylko trójfazowych silników firmy Grundfos z oznaczeniami IE2 lub IE3. Patrz tabliczka znamionowa silnika.
  Zastosowana norma: EN 60034-30: 2009.

RU: Декларация о соответствии ЕС

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

- Механические устройства (2006/42/EC).
  Применявшийся стандарт: EN 809: 2009.
- Низковольтное оборудование (2006/95/EC).
  Применявшиеся стандарты: EN 60335-1: 2002 и EN 60335-2-41: 2003.
- Электромагнитная совместимость (2004/108/EC).
  Применявшиеся стандарты: EN 60730-1: 2000 и EN 60730-1, A16: 2007.
- Директива по экологическому проектированию энергопотребляющей продукции (2009/125/EC).
  Электродвигатели:
  Постановление Комиссии № 640/2009.
  Применяется только к трехфазным электродвигателям Grundfos, обозначенным IE2 или IE3. См. шильдик с техническими данными двигателя.
  Применявшийся стандарт: EN 60034-30: 2009.

RO: Declaraţie de conformitate CE

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

– Directiva Utilaje (2006/42/CE).
  Standard utilizat: EN 809: 2009.
– Directiva Tensiune Joasă (2006/95/CE).
  Standarde utilizate: EN 60335-1: 2002 şi EN 60335-2-41: 2003.
– Directiva EMC (2004/108/CE).
  Standarde utilizate: EN 60730-1: 2000 şi EN 60730-1, A16: 2007.
– Directiva Ecodesign (2009/125/CE).
  Motoare electrice:
  Regulamentul Comisiei nr. 640/2009.
  Se aplică numai motoarelor trifazate Grundfos cu marca IE2 sau IE3.
  Vezi plăcuţa de identificare a motorului.
  Standard utilizat: EN 60034-30: 2009.

SK: Prehlásenie o konformite EÚ

My firma Grundfos prehlasujeme na svoju plnú zodpovednosť, že výrobok JP Basic 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).
  Použitá norma: EN 809: 2009.
– Smernica pre nízkonapäťové aplikácie (2006/95/EC).
  Použité normy: EN 60335-1: 2002 a EN 60335-2-41: 2003.
– Smernica pre elektromagnetickú kompatibilitu (2004/108/EC).
  Použité normy: EN 60730-1: 2000 a EN 60730-1, A16: 2007.
– Smernica o ekodizajne (2009/125/EC).
  Elektromotory:
  Nariadenie Komisie č. 640/2009.
  Platné iba pre trojfázové motory Grundfos, označené ako IE2 alebo IE3. Viď typový štítok motora.
  Použitá norma: EN 60034-30: 2009.

SI: ES izjava o skladnosti

V Grundfosu s polno odgovornostjo izjavljamo, da so naši izdelki JP Basic 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).
  Uporabljena norma: EN 809: 2009.
– Direktiva o nizki napetosti (2006/95/ES).
  Uporabljeni normi: EN 60335-1: 2002 in EN 60335-2-41: 2003.
– Direktiva o elektromagnetni združljivosti (EMC) (2004/108/ES).
  Uporabljeni normi: EN 60730-1: 2000 in EN 60730-1, A16: 2007.
– Eco-design direktiva (2009/125/ES).
  Električni motorji:
  Uredba Komisije št. 640/2009.
  Se nanaša samo na trofazne motorje Grundfos z oznako IE2 ali IE3.
  Glejte napisno ploščico motorja.
  Uporabljena norma: EN 60034-30: 2009.

RS: EC deklaracija o konformitetu

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

– Direktiva za mašine (2006/42/EC).
  Korišćen standard: EN 809: 2009.
– Direktiva niskog napona (2006/95/EC).
  Korišćeni standardi: EN 60335-1: 2002 i EN 60335-2-41: 2003.
– EMC direktiva (2004/108/EC).
  Korišćeni standardi: EN 60730-1: 2000 i EN 60730-1, A16: 2007.
– Direktiva o ekološkom projektovanju (2009/125/EC).
  Električni motori:
  Propis Komisije br. 640/2009.
  Važi samo za trofazne Grundfos motore označene sa IE2 ili IE3.
  Pogledajte natpisnu pločicu motora.
  Korišćen standard: EN 60034-30: 2009.

TR: EC uygunluk bildirgesi

Grundfos olarak bu beyannameye konu olan JP Basic Booster ürünlerinin, AB Üyesi Ülkelerin kanunlarını birbirine yaklaştırma üzerine Konsey Direktifleriyle uyumlu olduğunun yalnızca bizim sorumluluğumuz altında olduğunu beyan ederiz:

– Makineler Yönetmeliği (2006/42/EC).
  Kullanılan standart: EN 809: 2009.
– Düşük Voltaj Yönetmeliği (2006/95/EC).
  Kullanılan standartlar: EN 60335-1: 2002 ve EN 60335-2-41: 2003.
– EMC Diretifi (2004/108/EC).
  Kullanılan standartlar: EN 60730-1: 2000 ve EN 60730-1, A16: 2007.
– Ecodesign Direktifi (2009/125/EC).
  Elektrikli motorlar:
  640/2009 sayılı Komisyon Yönetmeliği.
  Sadece IE2 veya IE3 işaretli trifaze Grundfos motorlar için geçerlidir.
  Motor bilgi etiketine bakınız.
  Kullanılan standart: EN 60034-30: 2009.

Bjerringbro, 1st December 2011

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

English (GB) Safety instructions

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Warning

Prior to installation, read these installation and operating instructions. Installation and operation must comply with local regulations and accepted codes of good practice.

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.

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. Applications

The JP Basic Booster is suitable for pressure boosting of fresh water in domestic water supply systems.

3. System sizing

Warning

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

4. Electrical connection

Warning

The electrical installation should 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

During electrical installation, make sure that the power supply cannot be accidentally switched on.

Warning

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

As a precaution, the pump 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.

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

5. Start-up

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

Note ***We recommend to fit a non-return valve on the suction side of the pump.***

5.1 Shaft seal run-in

The seal faces are lubricated by the pumped liquid, meaning that 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 will evaporate. As a result, no leakage will be detected.

6. Adjustment

The JP Basic Booster comes with the following factory settings in bar:

Pump	Tank precharge pressure	Cut-in pressure	Cut-out pressure
JP Basic Booster	1.9	2.0	2.8

6.1 Calculating the cut-in and cut-out pressures

The cut-in 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 cut-out pressure:
cut-in pressure + 0.8 - 1.5 bar.

Note ***The cut-out pressure must not exceed the maximum discharge pressure of the pump.***

6.2 Adjusting the precharge pressure

When the pump cut-in pressure has been determined, the required precharge pressure of the diaphragm tank can be calculated. The precharge pressure must be adjusted to 90 % of the cut-in pressure.

Caution ***When adjusting/reading the precharge pressure, make sure that there is no water pressure on the diaphragm tank from the pipework.***

Note ***If the pressure switch setting is changed, the precharge pressure must be adjusted too.***

See the installation and operating instructions for the diaphragm tank.

6.3 Setting the pressure switch

Warning

Switch off the power supply before adjusting the pressure switch.

Fit the cover on the pressure switch before you switch on the power supply to check the cut-in and cut-out pressure.

The cut-out pressure must be lower than the maximum operating pressure of the pump and tank.

Remove the cover from the pressure switch to access the adjusting screws. See fig. 1.

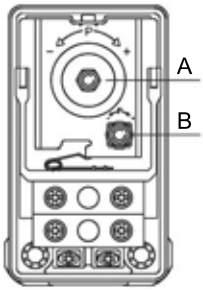

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Fig. 1 Pressure switch

Setting the cut-out pressure

1. Turn screw (pos. A) clockwise to increase the cut-out pressure.
   Turn it counter-clockwise to reduce the cut-out pressure.
   The differential pressure range remains unchanged.
2. Start the pump and check by reading the pressure gauge whether the desired cut-out and cut-in pressures have been obtained.

Setting the cut-in pressure

1. Turn screw (pos. B) clockwise to reduce the cut-in pressure.
   Turn it counter-clockwise to increase the cut-in pressure.
   The differential pressure range is widened and narrowed respectively.
2. Start the pump and check by reading the pressure gauge whether the desired cut-out and cut-in pressures have been obtained.

Repeat the procedure until the right cut-in and cut-out pressures have been obtained.

7. Operation and maintenance

Warning

Prior to start-up, the system should be flushed through with clean water and drained to remove possible impurities.

Caution

Do not cover the motor of the booster system as an adequate supply of cool air must reach the motor cooling fan.

8. Frost protection

If there is a risk of frost, the tank and pump must be drained.

9. Technical data

Ambient temperature

Maximum +40 °C.

Storage temperature

Minimum -10 °C.

Maximum +45 °C.

Liquid temperature

+35 °C.

System pressure

Maximum 6 bar.

Inlet pressure

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

Supply voltage

1 x 220-240 V, 50 Hz.

Insulation class

F.

Enclosure class

IP44.

Relative air humidity

Maximum 95 %.

Sound power level

The sound power level of the pump is lower than 72 dB(A).

Start/stop frequency

Maximum 20 per hour.

10. Fault finding

Warning

Before starting fault finding, switch off the power supply. 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 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 and check the electric installation.
2. There is power on the pressure switch but not the pump.	a) The power supply to the pump is disconnected after the pressure switch unit.	Check the cable connections.
	b) The pressure switch unit is defective.	Repair or replace the pressure switch unit. *
3. The pump does not start when water is consumed.	a) Too big difference in height between the pressure switch unit and the tapping point.	Adjust the cut-in pressure.
	b) The pressure switch unit is defective.	Repair or replace the pressure switch unit. *
4. Frequent starts/stops.	a) Leakage in the pipework.	Check and repair the pipework.
	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 *6.*
5. The pump does not stop.	a) The pressure switch unit is defective.	Repair or replace the pressure switch unit. *
6. The motor cuts out during operation.	a) The thermal switch in the motor has tripped due to overheating.	The thermal switch will cut in automatically when the motor has cooled sufficiently. If the problem still persists, check these two possible causes: • Impeller stuck. Clean the pump. • Motor defective. Repair or replace the motor. *

* Or contact the nearest Grundfos company or service workshop.

11. 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.

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