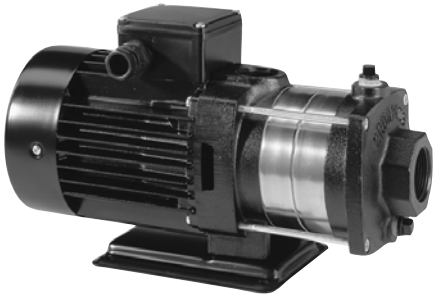
CH

Installation and operating instructions



CH

Declaration of conformity

GB: EC declaration of conformity

We, Grundfos, declare under our sole responsibility that the products CH to which this declaration relates, are 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: 2008 and EN 60204-1: 2006.
— Low Voltage Directive (2006/95/EC).
Standards used: EN 60335-1: 2002 and EN 60335-2-51: 2003.
— EMC Directive (2004/108/EC).
— 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.

GR: Δήλωση συμμόρφωσης ΕC

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα CH 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/EC).
Πρότυπα που χρησιμοποιήθηκαν: EN 809: 2008 και EN 60204-1: 2006.
— Οδηγία χαμηλής τάσης (2006/95/EC).
Πρότυπα που χρησιμοποιήθηκαν: EN 60335-1: 2002 και EN 60335-2-51: 2003.
— Οδηγία Ηλεκτρομαγνητικής Συμβατότητας (EMC) (2004/108/EC).
— Οδηγία Οικολογικού Σχεδιασμού (2009/125/EC).
Ηλεκτρικοί κινητήρες:
Κανονισμός Αρ. 640/2009 της Επιτροπής.
Ισχύει μόνο σε τριφασικούς κινητήρες της Grundfos με σήμανση IE2 ή IE3. Βλέπε πινακίδα κινητήρα.
Πρότυπο που χρησιμοποιήθηκε: EN 60034-30: 2009.

ES: Declaración CE de conformidad

Nosotros, Grundfos, declaramos bajo nuestra entera responsabilidad que los productos CH a los cuales se refiere esta declaración, están conformes con las Directivas del Consejo en la aproximación de las leyes de las Estados Miembros del EM:

— Directiva de Maquinaria (2006/42/CE).
Normas aplicadas: EN 809: 2008 y EN 60204-1: 2006.
— Directiva de Baja Tensión (2006/95/CE).
Normas aplicadas: EN 60335-1: 2002 y EN 60335-2-51: 2003.
— Directiva EMC (2004/108/CE).
— Directiva sobre diseño ecológico (2009/125/CE).
Motores eléctricos:
Reglamento de la Comisión n.º 640/2009.
Válido sólo para motores trifásicos Grundfos pertenecientes a las categorías IE2 e IE3. Consulte la placa de características del motor.
Norma aplicada: EN 60034-30: 2009.

FR: Déclaration de conformité CE

Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits CH auxquels se réfère cette déclaration, sont conformes 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 : 2008 et EN 60204-1 : 2006.
— Directive Basse Tension (2006/95/CE).
Normes utilisées : EN 60335-1 : 2002 et EN 60335-2-51 : 2003.
— Directive Compatibilité Electromagnétique CEM (2004/108/CE).
— Directive en matière d'écoconception (2009/125/CE).
Moteurs électriques :
Règlement de la Commission Nº 640/2009.
S'applique uniquement aux moteurs triphasés Grundfos marqués IE2 ou IE3. Voir la plaque signalétique du moteur.
Norme utilisée : EN 60034-30 : 2009.

IT: Dichiarazione di conformità CE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti CH ai quali si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri CE:

— Direttiva Macchine (2006/42/CE).
Norme applicate: EN 809: 2008 e EN 60204-1: 2006.
— Direttiva Bassa Tensione (2006/95/CE).
Norme applicate: EN 60335-1: 2002 e EN 60335-2-51: 2003.
— Direttiva EMC (2004/108/CE).
— Direttiva Ecodesign (2009/125/CE).
Motori elettrici:
Regolamento della Commissione N. 640/2009.
Applicabile solo ai motori trifase Grundfos contrassegnati IE2 o IE3. Vedere la targhetta identificativa del motore.
Norma applicata: EN 60034-30: 2009.

UA: Свідчення про відповідність вимогам ЄС

Компанія Grundfos заявляє про свою виключну відповідальність за те, що продукти CH на які поширюється дана декларація, відповідають таким рекомендаціям Ради з уніфікації правових норм країн - членів ЕС:

— Механічні прилади (2006/42/EC).
Стандарти, що застосовувалися: EN 809: 2008 та EN 60204-1: 2006.
— Низька напруга (2006/95/EC).
Стандарти, що застосовувалися: EN 60335-1: 2002 та EN 60335-2-51: 2003.
— Електромагнітна сумісність (2004/108/EC).
— 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.

ID: EC pernyataan kesesuaian

Dengan ini, Grundfos, sebagai penanggung jawab tunggal menyatakan bahwa produk CH telah sesuai dengan ketentuan-ketentuan Dewan yang merujuk pada hukum negara-negara anggota Komisi Eropa berikut ini:

– Ketentuan Mesin (2006/42/EC).
Standar yang digunakan: EN 809: 2008 dan EN 60204-1: 2006.
– Ketentuan Mengenai Keamanan Peralatan Bertegangan Rendah (2006/95/EC).
Standar yang digunakan: EN 60335-1: 2002 dan EN 60335-2-51: 2003.
– Ketentuan Mengenai Kompabilitas Elektromagnetik (2004/108/EC).
– Ketentuan design hemat energi dan ramah lingkungan (2009/125/EC).
Motor listrik:
Regulasi masyarakat ekonomi eropa mengenai implemetasi eco design 640/2009.
Hanya di pergunakan untuk Motor Grundfos 3 phase dengan penandaan IE2 atau IE3. Silahkan cek nameplate motor.
Standar yang digunakan: EN 60034-30: 2009.

PT: Declaração de conformidade CE

A Grundfos declara sob sua única responsabilidade que os produtos CH aos quais diz respeito esta declaração, estão em conformidade com as seguintes Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da CE:

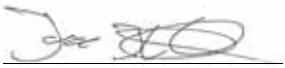
— Directiva Máquinas (2006/42/CE).
Normas utilizadas: EN 809: 2008 e EN 60204-1: 2006.
— Directiva Baixa Tensão (2006/95/CE).
Normas utilizadas: EN 60335-1: 2002 e EN 60335-2-51: 2003.
— Directiva EMC (compatibilidade electromagnética) (2004/108/CE).
— Directiva de Concepção Ecológica (2009/125/CE).
Motores eléctricos:
Disposição Regulamentar da Comissão n.º 640/2009.
Aplica-se apenas a motores trifásicos Grundfos assinalados como IE2 ou IE3. Consulte a chapa de características do motor.
Norma utilizada: EN 60034-30: 2009.

CN: EC 产品合格声明书

我们格兰富在我们的全权责任下声明，产品 CH，即该合格证所指之产品，符合欧共体使其成员国法律趋于一致的以下欧共理事会指令：

— 机械设备指令 (2006/42/EC)。
所用标准 : EN 809: 2008 和 EN 60204-1: 2006。
— 低电压指令 (2006/95/EC)。
所用标准 : EN 60335-1: 2002 和 EN 60335-2-51: 2003。
— 电磁兼容性指令 (2004/108/EC)。
— 环保设计指令 (2009/125/EC)。
电动机 :
欧洲委员会条例第 640/2009 号。
只适用于带有 IE2 或 IE3 标志的格兰富三相电机。参见电机铭牌。
所用标准 : EN 60034-30: 2009。

Tatabánya, 1st June 2011



Jannek Uldal Christensen
Research and Developement Manager
GRUNDFOS Manufacturing Ltd.
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Person authorised to compile technical file and
empowered to sign the EC declaration of conformity.

Original installation and operating instructions.

CONTENTS

Warning

Prior to installation, read these installation and operating instructions. 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. General description

2.1 Applications

The CH range of Grundfos horizontal multistage centrifugal pumps are designed for the pumping of water and other thin, non-aggressive and non-explosive liquids, not containing solid particles or fibres.

2.2 Operating conditions

2.2.1 Liquid temperature

0 °C to +90 °C.

2.2.2 Ambient temperature

Up to +55 °C.

2.2.3 Maximum operating pressure

0 °C to +40 °C: Up to 10 bar.
+41 °C to +90 °C: Up to 6 bar.

2.2.4 Maximum inlet pressure

The actual inlet pressure plus the pressure when the pump is operating against a closed valve should always be lower than the "maximum operating pressure".

2.2.5 Minimum inlet pressure

The table below applies to the **maximum flow rates** of the pumps and a barometric pressure of 760 mmHg.

The values stated are the minimum inlet pressures/maximum suction lifts "H" [m head] at the pump suction port. The values are stated at different liquid temperatures. **The head loss in the suction pipe should therefore be taken into account.**

The maximum suction lift may be limited by the actual head.

Type	H [m head]			
50 Hz	**20 °C**	**40 °C**	**55 °C**	**90 °C**
CH 2	*4.1	22	*2.7	2.8
CH 4	*7.5	*7.0	*6.1	*0.6
60 Hz				
CH 2	*3.1	*2.6	*1.7	3.8
CH 4	*6.8	*6.3	*5.4	0.1

"H" = minimum inlet pressure during operation.

"H" marked * = maximum suction lift during operation.

1 m head ≈ 0.1 bar.

2.3 Technical data

2.3.1 Electrical data

See the pump nameplate.

2.3.2 Dimensions

See page 52.

2.4 Sound pressure level

The sound pressure level of the pump is lower than the limiting values stated in the EC Council Directive 2006/42/EC relating to machinery.

3. Installation

3.1 Pump location

The pump should be installed so that the suction pipe is as short and the suction lift as small as possible.

The pump should be sited in a well ventilated but frost-free position. See section *6.1 Frost protection*. It may be sited outside, but it should be protected from the elements by means of a suitable cover.

The pump may be installed in one of the positions shown in fig. 1.

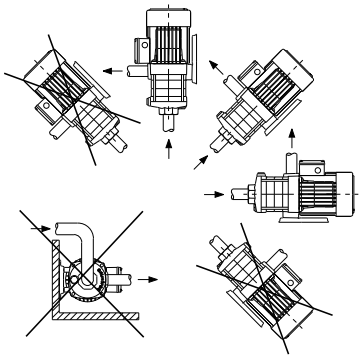

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Fig. 1 Pump positions

3.2 Position of terminal box

The terminal box can be turned to any one of the positions shown in fig. 2 before the pump is installed.

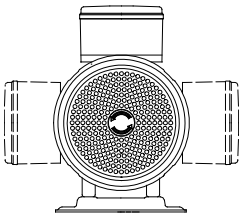

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Fig. 2 Terminal box positions

To change the position of the terminal box:

1. Remove the four screws which, from the motor side, are screwed into the discharge chamber.
2. Turn the stator housing to the required position.
3. Replace the screws and tighten securely.

3.3 Pipework

The pipes should be fitted so that any tension caused by variations in temperature does not affect the pump.

3.3.1 Suction pipe

If the pump is to draw liquid from a level lower than the pump suction port, a foot/non-return valve must be fitted to the end of the suction pipe, below the lowest liquid level, since the pump is not self-priming.

The suction pipe is connected to the pump suction port S. See fig. 3.

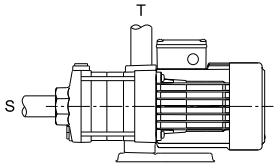

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Fig. 3 Suction and discharge ports

When the suction pipe is longer than 10 metres or the suction lift is greater than 4 metres, the diameter of the suction pipe must be larger than that of the pump suction port.

Every joint of the suction pipe must be completely tight.

If a hose is used as suction pipe, it must be non-collapsible. A strainer is recommended in cases where solids could enter the suction pipe and block the pump.

3.3.2 Discharge pipe

The discharge pipe is connected to the discharge port T. See fig. 3.

The discharge pipe should be at least the same diameter as the discharge port of the pump, to minimise pressure drop, high flow velocities and noise.

3.3.3 Bypass

If there is any danger of the pump running against a closed discharge valve, a minimum liquid flow through the pump should be ensured by connecting a bypass/a drain to the discharge pipe. The drain can for instance be connected to a tank.

A minimum flow rate equal to 10 % of the flow rate at maximum efficiency is needed at all times. Flow rate and head at maximum efficiency are stated on the pump nameplate.

3.4 Installation examples

The pump is suitable for a wide range of applications.

Some examples are shown on page 51.

4. Electrical connection

The electrical connections should be carried out in accordance with local regulations.

The operating voltage and frequency are marked on the nameplate. Please make sure that the motor is suitable for the power supply on which it will be used.

Warning

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

The pump must be connected to an external mains switch.

Single-phase motors, 1 x 110/220 V, 60 Hz, do not incorporate motor protection and must be connected to an approved motor-protective circuit breaker.

Other single-phase motors incorporate a thermal overload switch and require no additional motor protection.

Three-phase motors must be connected to a motor-protective circuit breaker, the set rated current of which must correspond to the electrical data on the pump nameplate.

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

Connections should be made as shown on the inside of the terminal box cover.

Choose one of the two cable entries and knock out the pre-cut disk.

4.1 Checking the direction of rotation

(Three-phase motors)

Arrows on the motor fan cover indicate the correct direction of rotation.

The pump should rotate counter-clockwise when viewed from the motor end.

To reverse the direction of rotation, switch off the power supply and interchange any two of the incoming supply wires.

5. Starting

5.1 Priming

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

Warning

In systems with hot liquids, extreme caution should be exercised when venting the pump to eliminate the risk of personal injury caused by escaping water.

Booster systems and systems where the liquid level on the suction side is above the pump inlet:

1. Close the isolating valves either side of the pump.
2. Remove the priming plug P. See fig. 4.
3. Slowly open the suction valve and keep it open until a steady stream of liquid runs out the priming port.
4. Close the valve, replace the priming plug and tighten securely.
5. Open the suction valve.
6. Start the pump and slowly open the discharge valve until it is fully open.

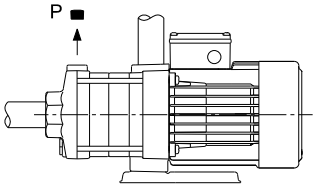

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Fig. 4 Priming plug

Pumping from tanks and wells where the liquid level on the suction side is below the pump inlet:

1. Close the discharge isolating valve.
2. Remove the priming plug P. See fig. 4.
3. Pour water through the priming port. Make sure that the suction pipe and pump are completely filled with liquid and vented.
4. Replace the priming plug and tighten securely.
5. Start the pump and slowly open the discharge valve until it is fully open.

5.2 Frequency of starts and stops

Maximum 100 starts per hour.

6. Operation and maintenance

Under normal operating conditions, the pump does not require any maintenance.

If the pump has been used for pumping liquids that may leave impurities in the pump, it should be flushed through with clean water immediately after use.

6.1 Frost protection

Pumps which are not being used during periods of frost should be drained to avoid damage.

Remove the priming and drain plugs P and V. See fig. 5.

Do not replace the plugs until the pump is to be used again.

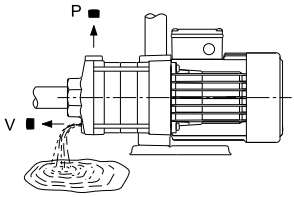

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Fig. 5 Priming and drain plugs

7. Fault finding

Warning

Before attempting to diagnose any fault, make sure that the power supply has been switched off.

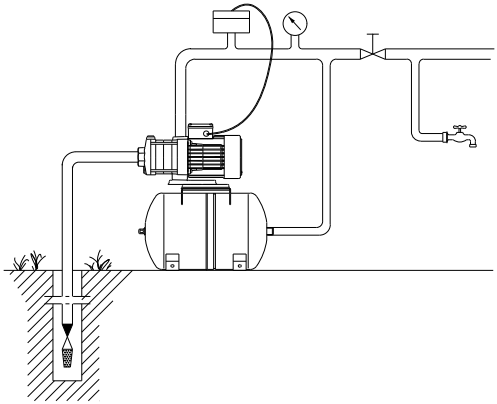
Fault	Cause
1. Pump does not start.	a) Supply failure. b) Control circuit has cut out or is defective. c) Motor is defective. d) Pump is blocked by impurities.
2. Pump runs but gives no water.	a) Pump is not filled with liquid. b) Suction or discharge pipe is blocked by impurities. c) Pump is blocked by impurities. d) Suction lift is too great. e) Leakage in suction pipe. f) Foot or non-return valve is blocked.
3. Pump runs at reduced capacity.	a) Wrong direction of rotation (three-phase). b) Suction lift is too great. c) Suction or discharge pipe is blocked. d) Pump is blocked by impurities. e) Foot or non-return valve is partly blocked.
4. Pump stops during operation.	a) Thermal overload switch in motor or external motor protection cuts out. b) Control circuit has cut out.

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.



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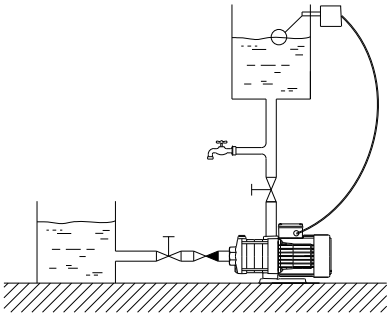

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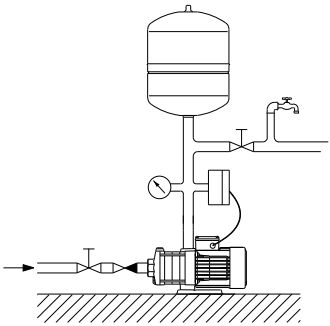

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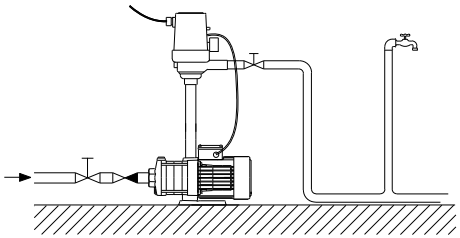

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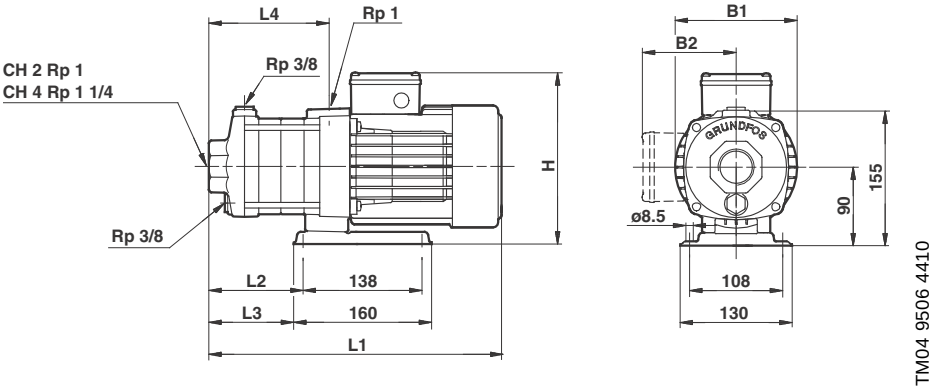

Voltage [V]	Frequency [Hz]	Pump type	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	B1 [mm]	B2 [mm]	H [mm]
1 x 220-240	50	CH 2-30	322	92	81	117	146	115	205
		CH 2-40	340	110	99	135	146	115	205
		CH 2-50	358	128	117	154	146	115	205
		CH 4-30	342	110	99	135	146	115	205
		CH 4-40	370	137	126	163	146	115	205
		CH 4-50	438	164	153	190	141.5	135	225
		CH 4-60	466	191	180	217	141.5	135	225
1 x 220	60	CH 2-30	322	92	81	117	141.5	135	225
		CH 2-50	398	128	117	154	141.5	135	225
		CH 4-30	382	110	99	135	141.5	135	225
		CH 4-40	410	137	126	163	141.5	135	225
3 x 220-240/380-415	50	CH 2-30	322	92	81	117	146	110	200
		CH 2-40	340	110	99	135	146	110	200

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