# UPM10, UPM20

Installation and operating instructions

GRUNDFOS

# UPM10, UPM20

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**Original installation and operating instructions**

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## 1. General information

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.

Read this document before you install the product. Installation and operation must comply with local regulations and accepted codes of good practice.

### 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 the hazard**

Consequence of ignoring the warning

- Action to avoid the hazard.

### 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.

# 2. Product introduction

## 2.1 Product description

UPM10 and UPM20 can be used as stand-alone or integrated circulator pumps in existing systems as a replacement or in new systems with either variable or constant flow rate. They can be used in a large range of system applications. The speed can be controlled by a low-voltage PWM (Pulse Width Modulation) signal, Local Interconnect Network (LIN) bus communication protocol, 0-10 V or internally controlled via constant-pressure, proportional-pressure or constant-speed mode defined from factory or via a smart operating panel.

## 2.2 Intended use

**CAUTION**
**Flammable material**
Minor or moderate personal injury

- Do not use the pump for flammable, combustible, or explosive liquids such as diesel oil, gasoline, or similar liquids.

The pump is not a safety component and cannot be used to ensure functional safety in the final appliance.

The pump is designed for circulating liquids in the following:

- boilers
- heat pumps, including heat pumps that use propane as a refrigerant
- solar systems
- applications with cold water, domestic hot water and drinking water [1] .

1) Never use a hose set to the pump, if connected to water mains

## 2.3 Pumped liquids

**WARNING**
**Biological hazard**
Death or serious personal injury

- In domestic hot-water systems, the temperature of the pumped liquid must always be according to local legislation.

**CAUTION**
**Flammable material**
Minor or moderate personal injury

- Do not use the pump for flammable liquids, such as diesel oil and petrol.

**CAUTION**
**Corrosive substance**
Minor or moderate personal injury

- Do not use the pump for aggressive liquids, such as acids and seawater.

Frost protection fluids may contain substances that can harm the terminal box material. Grundfos recommends shielding the terminal box from exposure to the frost protection fluids.

The product is suitable for pumping clean, thin, non-aggressive and non-explosive liquids, not containing solid particles or fibres.

In heating systems, the water must meet the requirements of accepted standards on water quality in heating systems, for example the German standard VDI 2035.

The pH must be between 8.2 and 9.5. The minimum value depends on the water hardness and must not be below 7.4 at 4 °dH (0.712 mmol/l).

The electrical conductivity at 25 °C must be equal to or larger than 10 microS/cm.

Mixtures of water with antifreeze media, such as glycol, with a kinematic viscosity lower than 10 $mm^2/s$ (10 cSt).When selecting a pump, the viscosity of the pumped liquid must be taken into consideration.If the pump is used for a liquid with a higher viscosity, the hydraulic performance of the pump is reduced.

Solar media used in typical solar thermal systems containing up to 50 volume % of antifreeze media.

For drinking water use, approved housings must be used, such as stainless steel N. These pumps are WRAS (UK) and ACS (FR) approved, and the materials in contact with drinking water comply with the applicable evaluation criteria issued by UBA (DE).

In domestic hot-water systems, the pump must be used only for water with a degree of temporary hardness of less than 3 mmol/l $CaCO^3$ (16.8 °dH). To avoid lime problems in hard water, the liquid temperature must not exceed 65 °C.

The water quality of test beds for the final production tests of complete heating appliances including pump must be observed to avoid calcification or biofilm formation during a longer storage period.

## 3. Receiving the product

### 3.1 Transporting the product

- Use appropriate lifting and transporting devices.
- Observe the maximum stacking height of pallets printed on the side of the pallet.

### 3.2 Inspecting the product

**CAUTION**
**Crushing of feet**
Minor or moderate personal injury
- Wear personal protective equipment.

When you have received the product, make sure that:
- The product is in accordance with the order.
- The voltage and frequency of the product match the voltage and frequency of the installation site.

## 4. Installing the product

**WARNING**
**Hot liquid**
Death or serious personal injury
- Before installing the pump, drain the system or close the isolating valves on both sides of the pump. The pumped liquid may be scalding hot and under high pressure.

**WARNING**
**Biological hazard**
Death or serious personal injury
- When used in a drinking water system, the system and the pump must be flushed with clean water before the first startup.

**WARNING**
**Electric shock**
Death or serious personal injury
- The pump must always be installed with a horizontal motor shaft within ± 5°.

**WARNING**
**Electric shock**
Death or serious personal injury
- Grundfos recommends that the terminal box is not exposed to frost protection fluid, due to degradation of the control box material.

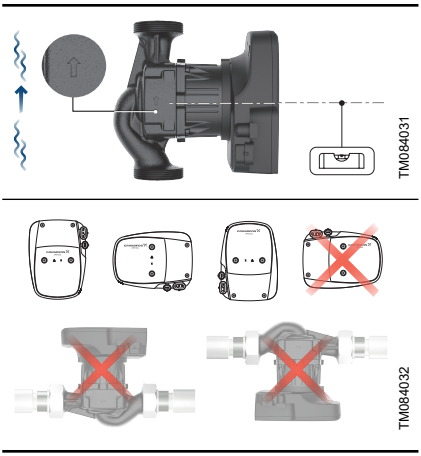
**WARNING**
**General hazard**
Death or serious personal injury
- If used in drinking water applications and connected to water mains directly, do not connect the pump with flexible hoses.

Mechanical installation must be carried out by trained persons in accordance with local regulations.

Arrows on the pump housing indicate the liquid flow direction through the pump. The pump is designed to be installed with horizontal shaft pumping upwards, downwards or horizontally.

- The pump must be installed in the system in such a way that no major amount of air flowing through or gathering in the pump housing affects the pump when it is out of operation.
- If an additional non-return valve is installed in the flow pipe, there is a high risk of dry running as the air cannot pass the valve.
- It must be possible to vent the system at the highest part of each system segment.
- We recommend permanent venting.

1. Check the arrows on the pump housing for flow direction through the pump. The flow direction can be horizontal or vertical, depending on the control box position.




2. Close the isolating valves and make sure that the system is not pressurised during the installation of the pump.
3. Mount the pump with gaskets in the pipes.

4. Tighten the union nuts.

**WARNING**
**Pressurised system**
Death or serious personal injury
- The recommended torque of the unions nuts are 30 Nm.

In heating systems, do not insulate the control box or cover the operating panel.

## 4.1 Insulating the pump housing

You can reduce the heat loss from the product by insulating the pump housing with insulating shells, available as accessory.

Do not insulate the control box or cover the operating panel.

## 4.2 Electrical connection

**WARNING**
**Electric shock**
Death or serious personal injury
- In case of an insulation fault, the fault current may be a pulsating DC.Observe national legislation about requirements for and selection of Residual Current Device (RCD) when installing the product.

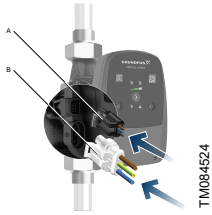
**WARNING**
**Electric shock**
Death or serious personal injury
- The pump must be connected to a supply disconnecting device incorporated in the fixed wiring according to the local wiring rules.

**WARNING**
**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.

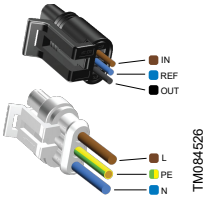
**WARNING**
**Electric shock**
Death or serious personal injury
- Always make sure that the protective earth (PE) on the pump is connected to the protective earth in the installation.

All electrical connections must be carried out by a qualified electrician in accordance with local regulations.

- The pump requires no external motor protection.
- Check that the supply voltage and frequency correspond to the values stated on the nameplate.
- The pump must not be used with an external speed control that varies the supply voltage.
- If an RCD is used, check which type it is.
- If an external relay is used, check if it can stand the inrush current.

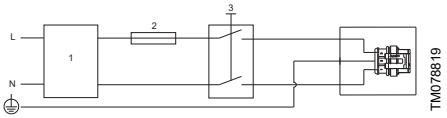



*Power and signal connection*




*Plug connection*

### 4.2.1 Wiring diagram




| Pos. | Description |
|---|---|
| 1 | Residual Current Device (RCD) |
| 2 | Fuse |
| 3 | External switch |

### 4.2.2 Supply voltage

1 × 230 VAC +10 % / -15 %, 50/60 Hz.

The pump is externally controlled via PWM signal or LIN bus signal.

#### 4.2.2.1 Reduced supply voltage

The pump runs optimally at 230 VAC. The pump can run with reduced performance if the voltage drops below 230 VAC.

**Pumps with PWM and LIN bus control**

If the voltage falls below 190 VAC, a low-voltage warning is sent via the PWM or LIN bus signal.

If the voltage falls below 150 VAC, the pump stops and a low-voltage alarm is sent via the PWM or LIN bus signal.

**Pumps in internal control mode**

If the voltage falls below 150 VAC, the pump stops.

| Supply voltage | Rated duty | External signal LED | Alarm LED | PWM output signal |
|---|---|---|---|---|
| 230 VAC | Nominal duty | ● [2)] | | Within spec. |
| < 195 VAC | Reduced | ● [2)] | | Warning |
| < 150 VAC | Stopped | | ● [3)] | Alarm [4)] |

2) Permanently on: no external control. Flashing green: external control active.

3) Constant red.

4) The pump starts again when the voltage is above 160 VAC and the PWM output changes to either warning or according to specification depending on the level.

# 5. Operating panel and settings

## 5.1 Control modes for UPM10, UPM20

UPM10 and UPM20 are externally controlled via a PWM or LIN bus signal.

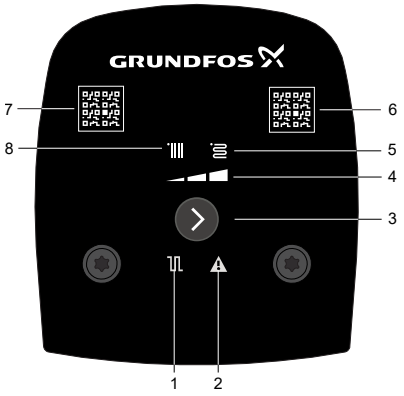
### 5.1.1 Operating panel

| Pos. | Description |
|---|---|
| 1 | Signal established with the product.<br>For LIN and PWM communication, the LED flashes when communication is established. |
| 2 | Alarm symbol |

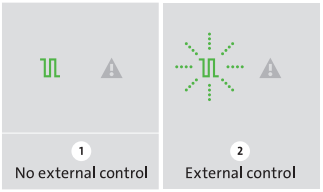
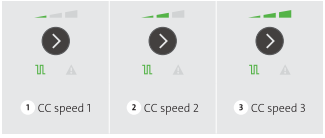
## 5.2 Control modes for UPM10, UPM20 HYBRID, AUTO, SOLAR, DHW variants

UPM10 and UPM20 HYBRID can be externally controlled via a PWM or LIN bus signal or manually via the operating panel. The operating panel features five LEDs and one button.

### 5.2.1 Operating panel




| Pos. | Description |
|---|---|
| 1 | Signal established with the product.<br>For LIN and PWM communication, the LED flashes when communication is established. |
| 2 | Alarm symbol |
| 3 | Push button |
| 4 | Settings for the selected control mode<br>Speed I, II, III or Autoadapt |
| 5 | Control mode<br>Constant pressure |
| 6 | QR code for Grundfos Product Center |
| 7 | Data matrix |
| 8 | Control mode<br>Proportional pressure |

| Variant | Control modes |
|---|---|
| PWM / LIN |  TM089773 |
| HYBRID | TM089581 |
| SOLAR | TM089582 |
| DHW |  TM089583 |
| AUTO | TM089584 |

## 6. Starting up the product

Before you start the pump:

1. Mount the pump in the correct way.
2. Make sure that the unions are tightened.
3. Make sure that the valves are opened.
4. Fill the system and vent it above the pump.
5. Check if the required minimum inlet pressure is available at the pump inlet.
6. Switch on the power supply.
7. Check if the external controller sends a signal to the pump.

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

The pump is self-venting and does not have to be vented before startup. Air inside the pump is transported by the liquid into the system shortly after startup.

Heating systems must be flushed according to local standards, such as DIN EN 14336 or VOB ATV C DIN 18380, before startup. After filling the system for the first time, the pump must run for approximately 1 hour before a long-term stop.

Inhibitors and additives increase the risk of malfunction of the pump.

If filters are installed, they must be monitored and maintained thoroughly.

## 7. Service

**DANGER**
**Electric shock**
Death or serious personal injury

- Before dismantling the complete pump installation, switch off the power supply at least 5 minutes before beginning work.
- Make sure that the power supply cannot be switched on accidentally.

**DANGER**
**Electric shock**
Death or serious personal injury

- The pump is running in turbine mode and acts as a generator. It creates hazardous induction voltage at the motor terminals.
- Prevent the fluid from flowing through the pump by closing the shut-off valves.

**WARNING**
**Pressurised system**
Death or serious personal injury

- Before dismantling the pump, drain the system or close the isolating valve on either side of the pump. The pumped liquid may be scalding hot and under high pressure.

**WARNING**
**Biological hazard**
Death or serious personal injury

- Always use original spare parts.

**WARNING**
**Electric shock**
Death or serious personal injury

- Connect the product to protective earth and provide protection against indirect contact in accordance with local regulations.

**WARNING**
**Hot surface**
Death or serious personal injury

- The pump housing may be hot due to the pumped liquid being scalding hot.
- Close the isolating valves on both sides of the pump and wait for the pump housing to cool down.

**WARNING**
**Electric shock**
Death or serious personal injury

- In case of an insulation fault, the fault current may be a pulsating DC.Observe national legislation about requirements for and selection of Residual Current Device (RCD) when installing the product.

**WARNING**
**Magnetic field**
Death or serious personal injury

- If you have a pacemaker, keep a safety distance of at least 0.3 m when dismantling the pump.

**WARNING**
**Toxic material**
Death or serious personal injury

- Decontaminate pumps that handle fluids pose a health hazard.

**WARNING**
**General hazard**
Death or serious personal injury

- All service work must be carried out by an instructed service technician.

**CAUTION**
**Crushing of feet**
Minor or moderate personal injury

- Wear personal protective equipment.

## 8. Disposing of the product

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 wheelie 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 at *www.grundfos.com/product-recycling*.

## 9. Document quality feedback

To provide feedback about this document, use your smart device to scan the QR code.

*Click here to submit your feedback*

# Declaration of conformity

**GB: EU declaration of conformity**

For products with CE marking on the nameplate.

We, Grundfos, declare under our sole responsibility that products (1) declared below are in conformity with the relevant union harmonisation legislation (2), harmonised standards or other technical specifications (3).

This declaration of conformity refers to the Grundfos document: 92888146

If a product consists of several components each with a separate declaration, all relevant declarations are included in the package.

**BG: Декларация за съответствие на ЕС**

За продукти със CE маркировка на табелката с данни.

Ние, Grundfos, декларираме с пълната си отговорност, че декларираните по-долу продукти (1) съответстват на приложимото законодателство за хармонизиране на Съюза (2), хармонизираните стандарти или други технически спецификации (3).

Тази декларация за съответствие е във връзка с документа на Grundfos: 92888146

Ако определен продукт се състои от няколко компонента, всеки от които с отделна декларация, в пакета се включват всички приложими декларации.

**CZ: EU prohlášení o shodě**

Pro výrobky s označením CE na typovém štítku.

My společnost Grundfos prohlašujeme na svou plnou odpovědnost, že níže uvedené výrobky (1) jsou v souladu s příslušnými harmonizačními právními předpisy (2), harmonizačními normami nebo jinými technickými specifikacemi (3) Evropské unie.

Toto prohlášení o shodě odkazuje na dokument společnosti Grundfos: 92888146

Pokud se výrobek skládá z několika součástí, z nichž každá má samostatné prohlášení, jsou v balení zahrnuta všechna příslušná prohlášení.

**DE: EU-Konformitätserklärung**

Für Produkte mit CE-Kennzeichnung auf dem Typenschild.

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte (1), auf die sich die folgende Erklärung bezieht, den nachstehend genannten Harmonisierungsrechtsvorschriften (2), Normen und Spezifikationen (3) der EU entspricht.

Diese Konformitätserklärung bezieht sich auf das Grundfos-Dokument: 92888146

Besteht ein Produkt aus mehreren Komponenten, die jeweils eine eigene Deklaration haben, sind alle relevanten Deklarationen im Paket enthalten.

**DK: EU-overensstemmelseserklæring**

For produkter med CE-mærkning på typeskiltet.

Vi, Grundfos, erklærer på eget ansvar, at produkter (1) der er angivet nedenfor, er i overensstemmelse med den relevante EU-harmoniseringslovgivning (2), harmoniserede standarder eller andre tekniske specifikationer (3).

Denne overensstemmelseserklæring henviser til Grundfos-dokumentet: 92888146

Hvis et produkt består af flere komponenter, hver med en separat erklæring, medfølger alle relevante erklæringer i pakken.

**EE: ELi vastavusdeklaratsioon**

Tooted, millel on CE-märgis andmesildil.

Meie, Grundfos, kinnitame oma ainuvastutusel, et allpool deklareeritud tooted (1) on kooskõlas asjakohaste liidu ühtlustamisõigusaktide (2), ühtlustatud standardite ja muude tehniliste spetsifikatsioonidega (3).

Käesolev vastavusdeklaratsioon viitab Grundfosi dokumendile: 92888146

Kui toode koosneb mitmest komponendist, millest igaühel on eraldi deklaratsioon, lisatakse pakendisse kõik asjakohased deklaratsioonid.

**ES: Declaración de conformidad UE**

Para productos con marcado CE en la placa de características

Grundfos declara, bajo su exclusiva responsabilidad, que los productos (1) que a continuación se detallan son conformes con la legislación (2), las normas u otras especificaciones técnicas (3) armonizadas de la Unión que correspondan.

La presente declaración de conformidad concierne al siguiente documento de Grundfos: 92888146

Si un producto consta de varios componentes, cada uno de ellos con una declaración independiente, el paquete incluirá todas las declaraciones correspondientes.

**FI: EY-vaatimustenmukaisuusvakuutus**

Tuotteet, joiden tyyppikilvessä on CE-merkintä

Grundfos vakuuttaa omalla vastuullaan, että alla mainitut tuotteet (1) ovat asiaankuuluvan unionin yhdenmukaistamislainsäädännön (2), yhdenmukaistettujen standardien tai (3) muiden teknisten eritelmien mukaisia.

Tämä vaatimustenmukaisuusvakuutus viittaa seuraavaan Grundfos-asiakirjaan: 92888146

Jos tuote sisältää useita komponentteja, joista jokaiselle on erillinen vaatimustenmukaisuusvakuutus, kaikki asiaankuuluvat vakuutukset sisältyvät pakkaukseen.

**FR : Déclaration de conformité UE**

Pour les produits avec marquage CE sur la plaque signalétique.

Nous, Grundfos, déclarons sous notre seule responsabilité que les produits (1) déclarés ci-dessous sont conformes à la législation d'harmonisation (2), aux normes harmonisées ou à d'autres spécifications techniques (3).

Cette déclaration de conformité fait référence au document Grundfos : 92888146

Si un produit est constitué de plusieurs composants ayant chacun une déclaration distincte, toutes les déclarations pertinentes sont incluses dans l'emballage.

**GR: Δήλωση συμμόρφωσης ΕΕ**

Για προϊόντα με σήμανση CE στην πινακίδα.

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα (1) που δηλώνονται παρακάτω συμμορφώνονται με τη σχετική νομοθεσία εναρμόνισης της ένωση (2), τα εναρμονισμένα πρότυπα ή άλλες τεχνικές προδιαγραφές (3).

Η παρούσα δήλωση συμμόρφωσης αναφέρεται στο έγγραφο Grundfos: 92888146

Αν ένα προϊόν αποτελείται από διάφορα εξαρτήματα, το καθένα από τα οποία έχει ξεχωριστή δήλωση, όλες οι σχετικές δηλώσεις περιλαμβάνονται στη συσκευασία.

**HR: EU Izjava o usklađenosti**

Za proizvode s oznakom CE na natpisnoj pločici.

Mi, Grundfos, izjavljujemo pod svojom isključivom odgovornošću da su proizvodi (1) deklarirani dolje u skladu s relevantnim zakonodavstvom unije o usklađivanju (2), usklađenim standardima ili drugim tehničkim specifikacijama (3).

Ova izjava o sukladnosti odnosi se na Grundfos dokument: 92888146

Ako se proizvod sastoji od nekoliko komponenti od kojih svaka ima zasebnu izjavu, sve relevantne izjave priložene su u pakiranju.

**HU: EU megfelelőségi nyilatkozat**

Az adattáblán CE-jelöléssel ellátott termékek esetében.

Mi, a Grundfos, saját kizárólagos felelősségünkre kijelentjük, hogy az alább feltüntetett termékek (1) megfelelnek a vonatkozó uniós harmonizációs jogszabályoknak (2), a harmonizált szabványoknak vagy egyéb műszaki előírásoknak (3).

Ez a megfelelőségi nyilatkozat a Grundfos dokumentumra vonatkozik: 92888146

Ha egy termék több részegységből áll, amelyek mindegyikéhez külön nyilatkozat tartozik, akkor a csomag az összes vonatkozó nyilatkozatot tartalmazza.

**IT: Dichiarazione di conformità UE**

Per prodotti con marcatura CE sulla targhetta.

Grundfos dichiara sotto la propria esclusiva responsabilità che i prodotti (1) dichiarati di seguito sono conformi alla pertinente normativa di armonizzazione dell'Unione (2), alle norme armonizzate o ad altre specifiche tecniche (3).

La presente dichiarazione di conformità fa riferimento al documento Grundfos: 92888146

Se un prodotto è costituito da più componenti, ciascuno con una dichiarazione separata, tutte le dichiarazioni pertinenti sono incluse nella confezione.

**LT: ES atitikties deklaracija**

Produktams, kurių vardinėje plokštelėje yra CE ženklas.

Mes, „Grundfos“, su visa atsakomybe pareiškiame, kad toliau nurodyti produktai (1) atitinka derinamuosius Europos Sąjungos teisės aktus (2), darniuosius standartus arba kitas technines specifikacijas (3).

Ši atitikties deklaracija susijusi su „Grundfos“ dokumentu: 92888146

Jei produktas susideda iš kelių komponentų, kurių kiekvienas turi atskirą deklaraciją, pakuotėje yra visos šios deklaracijos.

**LV: ES atbilstības deklarācija**

Produktiem ar CE marķējumu pases datu plāksnītē.

Uzņēmums Grundfos ar pilnu atbildību paziņo, ka produkti (1), kuri deklarēti tālāk, atbilst attiecīgajiem savienības ar saskaņošanu saistītajiem tiesību aktiem (2), saskaņotajiem standartiem vai citām tehniskajām specifikācijām (3).

Šī atbilstības deklarācija attiecas uz Grundfos dokumentu: 92888146

Ja produkts sastāv no vairākiem komponentiem, no kuriem katram ir atsevišķa deklarācija, visas attiecīgās deklarācijas tiek iekļautas iepakojumā.

**NL: EC Conformiteitsverklaring**

Voor producten met CE-markering op het typeplaatje.

Wij, Grundfos, verklaren op eigen verantwoordelijkheid dat de hieronder vermelde producten (1) in overeenstemming zijn met de relevante harmonisatiewetgeving van de Unie (2), geharmoniseerde normen of andere technische specificaties (3).

Deze conformiteitsverklaring verwijst naar het Grundfos-document: 92888146

Als een product bestaat uit meerdere onderdelen met elk een afzonderlijke verklaring, bevat de verpakking alle relevante verklaringen.

**PL: Deklaracja zgodności WE**

Dla produktów z oznaczeniem CE na tabliczce znamionowej.

Firma Grundfos oświadcza z pełną odpowiedzialnością, że produkty (1), których dotyczy niniejsza deklaracja, są zgodne z odpowiednimi unijnymi przepisami harmonizacyjnymi (2), normami zharmonizowanymi lub innymi specyfikacjami technicznymi (3).

Niniejsza deklaracja zgodności odnosi się do dokumentu Grundfos: 92888146

Jeśli produkt składa się z kilku komponentów, z których każdy ma oddzielną deklarację, opakowanie zawiera wszystkie odnośne deklaracje.

**PT: Declaração de conformidade UE**

Para produtos com marcação CE na chapa de características.

A Grundfos declaramos sob sua única responsabilidade que os produtos (1) declarados abaixo estão em conformidade com a legislação de harmonização (2), as normas de harmonização ou outras especificações técnicas (3) relevantes da União.

Esta declaração de conformidade refere-se ao documento Grundfos: 92888146

Se um produto consistir em vários componentes, cada um com uma declaração separada, todas as declarações relevantes serão incluídas na embalagem.

**RO: Declarație de conformitate UE**

Pentru produsele cu marcaj CE pe plăcuța de identificare.

Subscrisa, Grundfos, declară pe propria răspundere că produsele (1) menționate mai jos sunt în conformitate cu legislația relevantă de armonizare a Uniunii Europene (2), cu standardele armonizate sau cu alte specificații tehnice (3).

Această declarație de conformitate se referă la documentul Grundfos: 92888146

Dacă un produs este format din mai multe componente, fiecare cu o declarație separată, toate declarațiile relevante sunt incluse în pachet.

**SR: EU deklaracija o usklađenosti**

Za proizvode sa CE oznakom na natpisnoj pločici.

Mi, Grundfos, izjavljujemo na našu isključivu odgovornost da su proizvodi (1) deklarisani u nastavku u skladu sa relevantnim zakonodavstvom o harmonizaciji unije (2), usklađenim standardima ili drugim tehničkim specifikacijama (3).

Ova deklaracija o usklađenosti odnosi se na Grundfos dokument: 92888146

Ako se proizvod sastoji od nekoliko komponenti od kojih svaka ima posebnu deklaraciju, sve relevantne deklaracije su uključene u paket.

**RU: Декларация о соответствии нормам ЕС**

Для изделий с маркировкой CE на заводской табличке.

Мы, компания Grundfos, с полной ответственностью заявляем, что изделия (1), к которым относится приведенная ниже декларация, соответствуют применимым гармонизированным законодательным актам (2), гармонизированным стандартам или другим техническим условиям Евросоюза (3).

Настоящая декларация соответствия относится к документу Grundfos: 92888146

Если изделие состоит из нескольких компонентов, на каждый из которых имеется отдельная декларация, то в комплект поставки включены все соответствующие декларации.

**SE: EU-försäkran om överensstämmelse**

För produkter med CE-märkning på typskylten.

Vi, Grundfos, försäkrar under vårt eget ansvar att produkter (1) som deklareras nedan överensstämmer med gällande harmoniseringslagstiftning (2), harmoniserade standarder eller andra tekniska specifikationer (3).

Denna försäkran om överensstämmelse hänvisar till Grundfos-dokumentet: 92888146

Om en produkt består av flera komponenter, var och en med separat deklaration, ingår alla relevanta deklarationer i förpackningen.

**SI: Izjava o skladnosti EU**

Za izdelke z oznako CE na imenski ploščici.

Mi, Grundfos, s svojo izključno odgovornostjo izjavljamo, da so izdelki (1), navedeni spodaj, v skladu z ustrezno zakonodajo unije o usklajevanju (2), usklajenimi standardi ali drugimi tehničnimi specifikacijami (3).

Ta izjava o skladnosti se nanaša na dokument Grundfos: 92888146

Če je izdelek sestavljen iz več komponent z ločeno izjavo, so vse ustrezne izjave vključene v paket.

**SK: EÚ vyhlásenie o zhode**

Pre výrobky s označením CE na typovom štítku.

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že nižšie uvedené výrobky (1) sú v súlade s príslušnými harmonizačnými právnymi predpismi (2), harmonizačnými normami alebo inými technickými špecifikáciami (3) Európskej únie.

Toto vyhlásenie o zhode odkazuje na dokument spoločnosti Grundfos: 92888146

Ak sa výrobok skladá z niekoľkých komponentov, z ktorých každý má samostatné vyhlásenie, sú v balení zahrnuté všetky príslušné vyhlásenia.

**TR: AB uygunluk beyanı**

Etiketinde CE işareti bulunan ürünler için.

Grundfos olarak, aşağıdaki beyan edilen ürünlerin (1) ilgili birlik uyum mevzuatı (2), uyumlaştırılmış standartlar veya diğer teknik özellikler (3) ile uyumlu olduğunu tüm sorumluluk bize ait olmak üzere beyan ederiz.

Bu uygunluk beyanı, Grundfos dokümanıyla ilgilidir: 92888146

Bir ürün her biri ayrı bir beyana sahip birkaç parçadan oluşuyorsa tüm ilgili beyanlar pakete dahil edilir.

**UA: Декларація відповідності EU**

Для виробів з маркуванням CE на заводській табличці.

Ми, компанія Grundfos, під нашу виключну відповідальність заявляємо, що виріб (1), до якого відноситься нижченаведена декларація, відповідає вимогам дійсного гармонізованого законодавства Союзу (2), гармонізованим стандартам і будь-яким технічним умовам (3).

Ця декларація відповідності відноситься до документа компанії Grundfos: 92888146

Якщо виріб складається з кількох компонентів, кожен з яких має окрему декларацію, усі відповідні декларації включені в пакування.

**NO: Samsvarserklæring for EU**

For produkter med CE-merking på typeskiltet.

Vi, Grundfos, erklærer under vårt eneansvar at produkter (1) erklært nedenfor er i samsvar med er i samsvar med EUs relevante harmoniseringslovgivning (2), harmoniserte standarder eller andre tekniske spesifikasjoner (3).

Denne samsvarserklæringen viser til følgende Grundfos-dokument: 92888146

Hvis et produkt består av flere komponenter som alle har separate erklæringer, følger alle relevante erklæringer med i pakken.

**IS: ESB-samræmisyfirlýsing**

Fyrir vörur með CE-merki á merkiplötunni.

Við, Grundfos, lýsum því yfir á okkar eigin ábyrgð að vörur (1) sem tilgreindar eru hér á eftir samræmast þar að lútandi samhæfingarlöggjöf Sambandsins (2), samhæfðum stöðlum eða öðrum tækniforskriftum (3).

Í þessari samræmisyfirlýsingu er vísað til Grundfos-skjalsins: 92888146

Ef vara samanstendur af nokkrum íhlutum sem hver hefur sína yfirlýsingu fylgja allar viðeigandi yfirlýsingar með í umbúðunum.

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**GFBSA (1)**

**Union harmonisation legislation (2)**
**Harmonised standards or other technical specifications (3)**

- Low Voltage Directive (2014/35/EU)
  tandards used:
  EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023
  EN 60335-2-51:2003 + A1:2008 + A2:2012
- EMC Directive (2014/30/EU)
  Standards used:
  EN 55014 1:2021
  EN 61000 3 2:2014
  EN 61000-3-2:2019 + A1:2021
  EN 61000-3-3:2013 + A1:2019 + A2:2021 + AC:2022
  EN 55014 2:1997 + AC:1997 + A1:2001 + A2:2008
  EN 55014-2:2021
  EN 61000 6 2:2005 + AC:2005
  EN 61000 6 2:2019
- RoHS Directive (2011/65/EU) and (2015/863/EU)
  Standards used:
  EN 63000:2018
- Ecodesign Directive (2009/125/EC)
  Commission Regulation (EC) No 641/2009
  Commission Regulation (EC) No 622/2012
  Standards used:
  EN 16297-1:2012
  EN 16297-2:2012
  EN 16297-3:2012

**GFBUA (1)**

**Union harmonisation legislation (2)**
**Harmonised standards or other technical specifications (3)**

- Low Voltage Directive (2014/35/EU)
  tandards used:
  EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023
  EN 60335-2-51:2003 + A1:2008 + A2:2012
- EMC Directive (2014/30/EU)
  Standards used:
  EN 55014 1:2021
  EN 61000 3 2:2014
  EN 61000-3-2:2019 + A1:2021

EN 61000-3-3:2013 + A1:2019 + A2:2021 + AC:2022
EN 55014 2:1997 + AC:1997 + A1:2001 + A2:2008
EN 55014-2:2021
EN 61000 6 2:2005 + AC:2005
EN 61000 6 2:2019

- RoHS Directive (2011/65/EU) and (2015/863/EU)
  Standards used:
  EN 63000:2018
- Ecodesign Directive (2009/125/EC)
  Commission Regulation (EC) No 641/2009
  Commission Regulation (EC) No 622/2012
  Standards used:
  EN 16297-1:2012
  EN 16297-2:2012
  EN 16297-3:2012

Bjerringbro, 20/06/2023

Jørgen Vest Sørensen
Head of Product Development, HVAC Medium

[1000054573]

# Declaration of conformity

**UK declaration of conformity**

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

[GFBSA, GFBUA]

- Electrical Equipment (Safety) Regulations 2016

  Standards used:

  EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023

  EN 60335-2-51:2003 + A1:2008 + A2:2012
- Electromagnetic Compatibility Regulations 2016

  Standards used:

  EN 55014 1:2017 + A11:2020

  EN 55014 1:2021

  EN 61000 3 2:2014

  EN 61000-3-2:2019 + A1:2021

  EN 61000-3-3:2013 + A1:2019 + A2:2021 + AC:2022

  EN 55014-2:1997 + AC:1997 + A1:2001 + A2:2008

  EN 55014-2:2021

  EN 61000-6-2:2005 + AC:2005

  EN 61000-6-2:2019
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

  Standards used:

  Standards used: BS EN IEC 63000: 2018
- The Ecodesign for Energy-Related Products and Energy Information Regulations 2019

  Standards used:

  EN 16297-1:2012

  EN 16297-2:2012

  EN 16297-3:2012

This Declaration of Conformity is valid together with Grundfos publication number 92911652

UK Importer: Grundfos Pumps ltd. Grovebury Road, Leighton Buzzard, LU7 4TL.

Bjerringbro, 12/10/2023

Jørgen Vest Sørensen

Head of Product Development, HVAC Medium

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www.grundfos.com

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

[10000570090]

## 中国 RoHS

**产品中有害物质的名称及含有信息表**

| 部件名称 | 有害物质 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr6+) | 多溴联苯 (PBBs) | 多溴二苯醚 (PBDEs) | 邻苯二甲酸二正丁酯（DBP） | 邻苯二甲酸二异丁酯 (DIBP) | 邻苯二甲酸丁基苄酯（BBP） | 邻苯二甲酸二（2-乙基）己酯（DEHP） |
| 泵壳 | X | O | O | O | O | O | O | O | O | O |
| 紧固件 | X | O | O | O | O | O | O | O | O | O |
| 管件 | X | O | O | O | O | O | O | O | O | O |
| 定子 | X | O | O | O | O | O | O | O | O | O |
| 转子 | X | O | O | O | O | O | O | O | O | O |

注 1：O：表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。
X：表示该有害物质至少在该部件的某一均质材料中含量超出电器电子产品有害物质限制使用国家标准要求。
注 2：以上未列出的部件，表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。

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