

Electric stirrers

Installation and operating instructions



Electric stirrers
Installation and operating instructions
(all available languages)
<http://net.grundfos.com/qr/98257071>

Electric stirrers

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English (GB) Installation and operating instructions

Original installation and operating instructions

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1. General information



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.

1.3 Target group

These installation and operating instructions are intended for authorized and trained operating and service experts.

1.3.1 Qualification and training

The persons responsible for the installation, operation and service must be appropriately qualified for these tasks. Areas of responsibility, levels of authority and the supervision of the persons must be precisely defined by the operating company. If necessary, the persons must be trained appropriately.

2. Safety

These installation and operating instructions contain general instructions that must be observed during installation, operation and maintenance of the electric stirrer. They must be read by the installation engineer and the relevant qualified operator prior to installation and start-up, and must be available at the installation location at all times.

2.1 Safety-conscious working

The safety notices in these instructions should be observed in the same way as statutory health and safety at work guidelines and the operating and safety notices provided by the operating company.

Risks of not observing the safety instructions

Non-observance of the safety instructions may have dangerous consequences for persons, the environment and the product, and may result in the loss of any claims for damages. It may lead to the following hazards:

- Personal injury from exposure to electrical, mechanical and chemical influences.
- Damage to the environment and personal injury from leakage of harmful substances.
- Failure of important functions of the system.

2.2 Safety notices for the operating company and the operator

Hazards caused by electrical energy must be prevented. Observe the relevant regulations.



DANGER **Rotating parts**

Death or serious personal injury

- Only switch on the electric stirrer when it is mounted in a suitable tank.



WARNING **Hot surface**

Death or serious personal injury

- Provide protection against accidental contact with hot surfaces.
- Wear protective clothing, if required.



The electric stirrer must not run dry.



All work on electric stirrers must be carried out by authorised and qualified persons.



Observe the installation and operating instructions for the motor used.

2.3 Safety notices for installation and maintenance work

All work on the electric stirrer may only be carried out with the device switched off.

All safety and protection equipment must be put back into operation as soon as work is completed.



WARNING **Chemical hazard**

Death or serious personal injury

- Observe the corresponding safety precautions. Wear protective clothing (gloves and goggles) if required.



All work on electric stirrers must be carried out by authorised and qualified persons.
Do not open the electric stirrer.

2.4 Unauthorised conversions and impermissible modifications

Modifications or changes to the electric stirrer are only permitted with the consent of the manufacturer. Genuine spare parts and accessories approved by the manufacturer are safe to use.

3. Product introduction

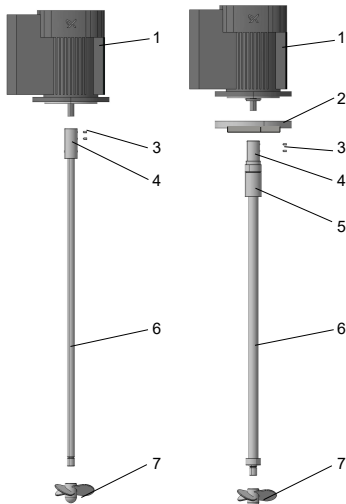
3.1 Product overview

The electric stirrers ensure that the liquid in the dosing tank is mixed constantly. The stirrers run at 1500 rpm with a net frequency of 50 Hz, and are suitable for liquids with low to medium viscosity.

The following versions are available:

- 6 shaft lengths suitable for cylindrical Grundfos PE tanks with volumes between 60 l and 1000 l
- 3 propeller sizes
- Single-phase motors in 3 power sizes
- Stainless-steel shaft, PP propeller (standard)
- PP-coated stainless-steel shaft, PP propeller
- PP-coated stainless-steel shaft, flange with sealing ring, PP propeller

3.2 Product components



TM048564

Pos.	Description
1	Motor
2	Sealing flange
3	Headless screws
4	Coupling
5	Coupling protection
6	Shaft
7	Propeller

3.3 Intended use

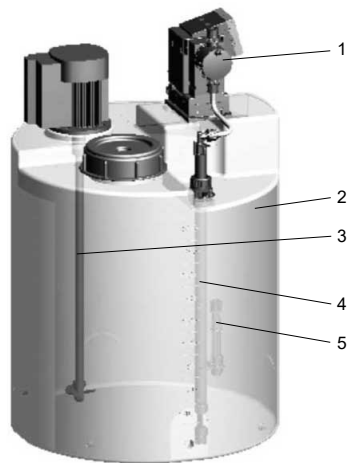
Grundfos electric stirrers must be mounted properly in a suitable tank, as described in these instructions. Electric stirrers are intended for the mixing and dissolving of non-abrasive, noninflammable and non-explosive liquids.

3.3.1 Improper operating methods

The operating safety of the product supplied is only ensured, if used as described in section Intended use.

The specified limit values mentioned in the technical data section must not be exceeded.

3.4 Assembled dosing tank station



TM048566

Assembled dosing tank station (example)

Pos.	Description
1	Dosing pump
2	Dosing tank
3	Electric stirrer
4	Suction lance
5	Level indication for switching off the electric stirrer

3.5 Type key

Example: El. stirrer 60 l tank, SS H/X, 450-88

Type

El. stirrer 60 l tank, SS H/X, 450-88

El. stirrer electric stirrer

Assignment to Grundfos cylindrical tank

El. stirrer **60 l tank**, SS H/X, 450-88

60 l tank for 60 l tank

100 l tank for 100 l tank

200 l tank for 200 l tank

300 l tank for 300 l tank

500 l tank for 500 l tank

1000 l tank for 1000 l tank

Shaft material (propeller material: PP GF)

El. stirrer 60 l tank, **SS** H/X, 450-88

SS stainless steel

PP stainless steel, PP-coated

PP-S stainless steel, PP-coated, flange with sealing ring

Motor variant

El. stirrer 60 l tank, SS **H/X**, 450-88

H single-phase NEMA, 115-230 V

Cable and plug version

El. stirrer 60 l tank, SS H/**X**, 450-88

X without cable and plug

Immersion depth (SS/PP/PP-S)

El. stirrer 60 l tank, SS H/X, **450**-88

450 450/452/437 mm

690 691/693/678 mm

700 698/700/685 mm

950 950/952/937 mm

1100 1100/1102/1087 mm

1150 1150/1152/1137 mm

Propeller diameter

El. stirrer 60 l tank, SS H/X, 450-**88**

88 88 mm

100 100 mm

125 125 mm

3.6 Nameplate



TM1040189

Pos.	Description
1	Type designation
2	Product number
3	Serial number
4	Material
5	Version
6	Factory code and production code (year and week)
7	Country of origin
8	Marks of approval

4. Transport and storage



Do not throw or drop the electric stirrer.
Protect the shaft and propeller against shock, impact and twisting.
Do not hold or transport the electric stirrer by the shaft or propeller.



Observe the installation and operating instructions for the motor used.

4.1 Unpacking

- Unpack the electric stirrer immediately after receipt.
- Check the electric stirrer for transport damage.
- Retain the packaging for future storage or return, or dispose of the packaging in accordance with local regulations.
- Fit the electric stirrer as soon as possible after unpacking.

4.2 Storage

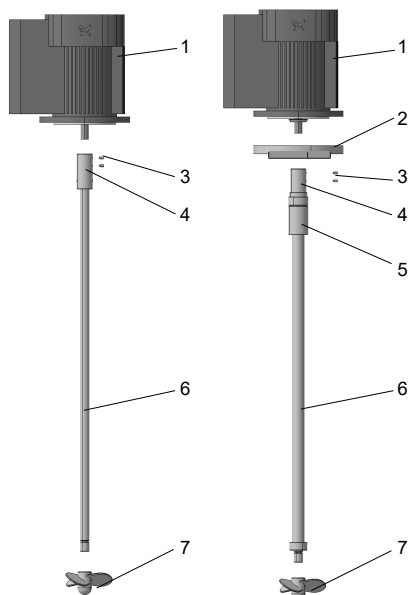
Store the electric stirrer in a dry, cool place.

- Storage temperature: -20 °C to +50 °C.

5. Assembly



Assembly must be carried out by authorised and qualified persons.



TMO48564

Stainless-steel version (left), PP version with sealing flange (right)

Assembling the electric stirrer

1. Mounting the propeller
 - a. Hold the shaft at the metal surface of the coupling with one hand.
 - b. Remove the thread protection from the thread of the shaft.
 - c. Screw the propeller (7) onto the shaft (6) and tighten it manually.
2. Positioning the sealing flange (only PP version with sealing flange)
 - a. Slide the sealing flange over the metal surface up to the coupling protection (5).
The bigger outer diameter of the sealing flange points to the motor.

3. Installing the motor
 - a. Remove the protective cap from the motor shaft.
 - b. Slide the shaft coupling (4) onto the motor shaft as far as possible.
The holes for the headless screws must be located directly above the groove of the motor shaft.
 - c. Fix the shaft (6) at the motor (1) by tightening the two headless screws (3) using the hexagon key supplied.
Make sure that the headless screws are counter-sunk and tightened with 3 Nm.
4. Positioning the coupling protection (only PP version with or without sealing flange)
 - a. Slide the coupling protection (5) over the shaft coupling (4) towards the motor (1) as far as it will go.
5. Positioning the sealing flange (only PP version with sealing flange)
 - a. Apply the grease supplied to the entire metal surface of the coupling protection.
 - b. Carefully slide the sealing flange (2) on the motor flange without damaging the sealing lip of the sealing flange.
 - c. Make sure that the sealing flange (2) is placed correctly on the coupling protection (5).
Make sure that the sealing lip is positioned on the metal surface of the coupling protection.

6. Mechanical installation

WARNING

Chemical hazard

Death or serious personal injury

- Observe the corresponding safety precautions. Wear protective clothing, if required.



Installation must be carried out by authorised and qualified persons.

6.1 Preparations before installation

Do not hold or transport the electric stirrer by the shaft or propeller.

Installation surfaces (dosing tank cover or mounting frames) must be as free from vibrations as possible.

When introducing into the dosing tank, do not twist the shaft or strain it with the weight of the motor.

Protect the shaft and propeller against shock, impact and twisting.

Do not position the electric stirrer centrally in the dosing tank.

The propeller must not be positioned too close to the dosing tank base.

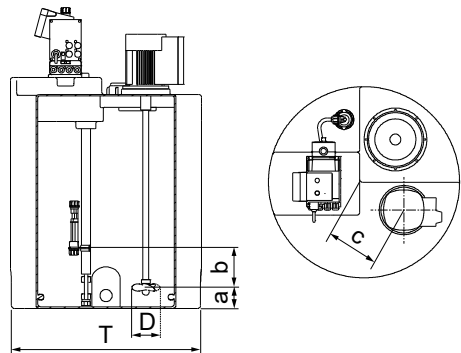
Shaft and propeller must not touch any part of the dosing tank.

The electric stirrer must not run dry.



Observe the installation and operating instructions for the motor used.

6.2 Installation dimensions



Dosing tank station, cross section and top view

Pos.	Description	Dimensioning rule
a	Distance of propeller from dosing tank bottom	$0.5 - 1.1 \times D$
b	Position of level switch (minimum liquid level above the propeller)	$2-3 \times D$
c	Position of shaft (recommended distance between shaft and centre of dosing tank)	$0.25 \times T$
T	Tank diameter	-

Related information

[10.3.1 Table of dimensions](#)

6.2.1 Installation dimensions for Grundfos cylindrical tanks

	Tank size [l]	Distance from tank bottom (a) [mm]	Position of level switch (b) [mm]	Position of stirrer shaft (c) [mm]
60 l tank	60	80	200	130
100 l tank	100	90	200	130
200 l tank	200	50	260	170
300 l tank	300	75	260	170
500 l tank	500	80	285	195
1000 l tank	1000	140	360	270

6.2.2 Mounting the electric stirrer

1. Use a Grundfos cylindrical dosing tank prepared for assembly of an electric stirrer.
 - If you use a standard cylindrical tank, cut a suitable hole for the motor flange.

1000-litre tanks must have a reinforced beam prepared for installation of a stirrer.
2. Install the electric stirrer vertically on a suitable Grundfos cylindrical dosing tank with the appropriate mounting kit supplied. See section Mounting kit (screws and washers).
Do not twist the shaft or strain it with the weight of the motor.
Tighten the screws with 6 Nm (+0 / -1 Nm).
3. Make sure that the shaft and propeller are not touching any point of the tank.
4. Before commissioning, make sure that the filling level of the tank is monitored with a level switch.
See section Installation dimensions for the minimum distance between level switch and propeller.

Related information

[6.2 Installation dimensions](#)

[10.5 Mounting kits \(screws and washers\)](#)

7. Electrical connection

Carry out the electrical connection according to local regulations.

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



WARNING **Electric shock**

- Death or serious personal injury
- Make sure that the power supply cannot be accidentally switched on.

7.1 Connecting the electric stirrer to the power supply



WARNING **Electric shock**

- Death or serious personal injury
- Switch off the power supply before making any connections.

WARNING

Electric shock

Death or serious personal injury



- The electrical installation must be carried out by an authorised person in accordance with local regulations and the relevant wiring diagram. Observe the installation and operating instructions for the motor used.

CAUTION

Rotating parts

Minor or moderate personal injury



- Observe the direction of rotation of the motor. In case of wrong direction of rotation, the propeller can fall off the shaft during operation.

1. Connect the motor to the power supply according to the wiring diagram in the terminal box cover.
2. Protect the cable connections against corrosion and humidity.
3. Fuse the motor with a motor overload switch of the appropriate rating.
4. Check the direction of rotation (see arrow on motor housing).

8. Startup and operation

WARNING

Hot surface

Death or serious personal injury



- The surface of the motor may be hot. Wear protective clothing, if required.
- Provide protection against accidental contact with hot surfaces.

DANGER

Rotating parts

Death or serious personal injury



- Only switch on the electric stirrer when it is mounted in a suitable tank.



Startup must be carried out by authorised and qualified persons.

For startup, all components of the system must be ready for operation.



The electric stirrer must not run dry.

Only switch on the stirrer, if the propeller is immersed in the liquid. Observe the minimum liquid level above the propeller.



Observe the installation and operating instructions for the components.



The signal of the level switch is designed for switching off the motor, if the minimum level of liquid in the tank is reached.

Depending on the installation, the electric stirrer is switched on and off with an external control unit.

9. Maintenance

DANGER

Electric shock

Death or serious personal injury



- Before starting maintenance work, switch off the entire system and disconnect the power supply.

WARNING

Hot surface

Death or serious personal injury



- The surface of the motor may be hot. Wear protective clothing, if required.



Maintenance work must be carried out by qualified and trained persons.

Observe the local regulations for safety, health and environment.



Protect the shaft and propeller against shock, impact and twisting.

Do not hold or transport the electric stirrer by the shaft or propeller.



Observe the installation and operating instructions for the motor used.

In the event of contamination or deposits, the shaft and propeller of the electric stirrer can be cleaned.

9.1 Removing the electric stirrer from the dosing tank

1. Remove the electrical connections.
2. Loosen the 4 mounting screws of the electric stirrer.
3. Lift the electric stirrer vertically out of the dosing tank.
Do not twist the shaft or strain it with the weight of the motor.

9.2 Cleaning the electric stirrer

Use appropriate cleaning agents to clean the shaft and propeller.

9.3 Mounting the electric stirrer after cleaning

1. Install the stirrer vertically on the dosing tank with the 4 mounting screws.
Do not twist the shaft or strain it with the weight of the motor.
Make sure that the shaft and propeller are not touching any point of the tank.
2. Tighten the screws with 6 Nm (+/- 1Nm).
3. Re-establish the electrical connections.
4. Check the direction of rotation.

10. Technical data

10.1 Operating conditions

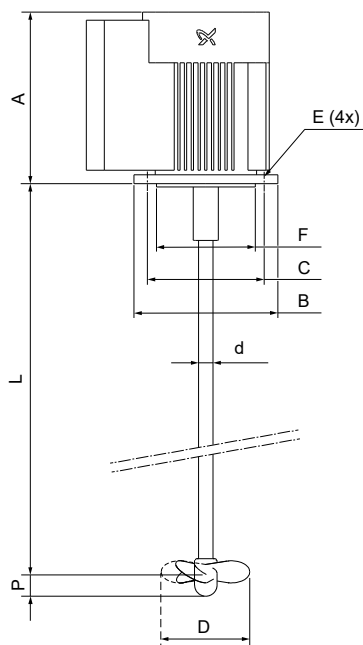
- Ambient temperature: 0 °C to +40 °C
- Liquid temperature: -10 °C to +45 °C
 - The dosing medium must be in the liquid phase.
- Max. relative humidity (non condensing): 70 % at 40 °C, 90 % at 35 °C
- Max. altitude above sea level: 1000 m
- Max. viscosity: 100 mPas with 90 W, 250 mPas with 250 W, 550 W

10.2 Motor data

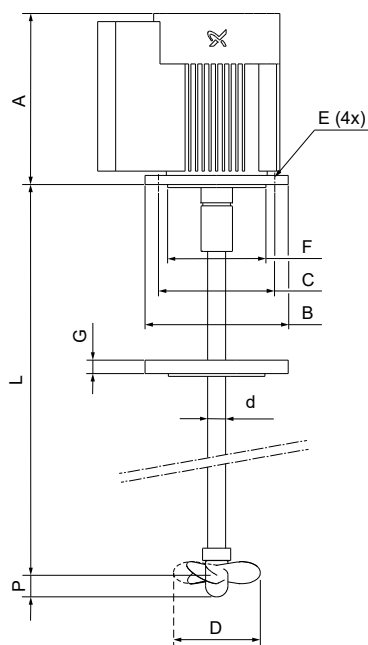
Tank size	60 l, 100 l		200 l, 300 l, 500 l			1000 l		
Power rating [kW]	0.09	0.09	0.25	0.25	0.25	0.55	0.55	0.55
Idle speed * [rpm]	1500	1500	1500	1500	1500	1500	1500	1500
Phase	1	3	1	1	3	1	1	3
Voltage [V]	220-240	220-240 / 380-425	230	240	220-240 / 380-415	230	240	220-240 / 380-415
Frequency [Hz]	50/60	50/60	50	50	50/60	50	50	50/60
Enclosure class	IP65	IP65	IP55	IP55	IP55	IP55	IP55	IP55
Insulation class	F	F	F	F	F	F	F	F
Nominal current (Δ/y) * [A]	0.9	0.6 / 0.4	2.1	2.02	1.48 / 0.85	3.7	3.55	2.6 / 1.5
Starting current [%]	200	300	230	230	400	310	310	430
$\cos \varphi$ *	0.94	0.68	0.91	0.91	0.75 - 0.65	0.97	1	0.79 - 0.7
Efficiency * [%]	50	58	55	55	69	65	65	77
Manufacturer	Kaiser	Kaiser	Kaiser	Kaiser	Grundfos	Kaiser	Kaiser	Grundfos

* Electrical data for 50 Hz operation. For 60 Hz operation, see motor data sheet.

10.3 Dimensions



Electric stirrer, stainless-steel version



Electric stirrer, PP version, with sealing flange

Pos.	Description	Pos.	Description
A	Motor height	E	Diameter of hole for screw
B	Outer diameter of sealing flange	F	Diameter of sealing flange centering
C	Diameter of pitch circle	G	Height of sealing flange
D	Propeller diameter	L	Shaft length
d	Shaft diameter	P	Propeller height

10.3.1 Table of dimensions

	L ¹⁾ [mm]	A [mm]	B [mm]	C [mm]	d ¹⁾ [mm]	D [mm]	E [mm]	F [mm]	G [mm]	P [mm]
60 l tank	450 / 452	218	140	11	16 / 20	88	9	95	15	25
100 l tank	691 / 693	218	140	115	16 / 20	88	9	95	15	25
200 l tank	698 / 700	220	160	130	16 / 20	100	9	110	15	25
300 l tank	950 / 952	220	160	130	16 / 20	100	9	110	15	25
500 l tank	1100 / 1102	220	160	130	16 / 20	125	9	110	15	28
1000 l tank	1150 / 1152	236	200	165	16 / 20	125	11	130	15	28

1) Stainless steel version / PP version

10.4 Weights

	Material	Weight [kg]
60 l tank	SS	8.2
	PP	8.5
	PP-S	8.8
100 l tank	SS	8.5
	PP	8.8
	PP-S	9.1
200 l tank	SS	8.0
	PP	8.3
	PP-S	8.6
300 l tank	SS	8.5
	PP	8.8
	PP-S	9.1
500 l tank	SS	8.7
	PP	9.0
	PP-S	9.3
1000 l tank	SS	12.1
	PP	12.4
	PP-S	12.7

10.5 Mounting kits (screws and washers)

The electric stirrers are provided with an appropriate mounting kit, in case of tank size 200-500 l with two different mounting kits.

Select the appropriate mounting kit for the type of electric stirrer (material and tank size) and manufacturer of motor from the table below:

- (1) "Kaiser, SS/PP, M8x20"
- (2) "Grundfos, SS/PP - Kaiser, PP-S, M8x35"
- (3) "Grundfos, PP-S, M8x50"
- (4) "Grundfos, SS/PP, M10x40"
- (5) "Grundfos, PP-S, M10x50"

Tank size	60 l, 100 l	200 l, 300 l, 500 l		1000 l
Manufacturer	Kaiser	Kaiser	Grundfos	Grundfos, Kaiser
SS	M8x20 (1)	M8x20 (1)	M8x35 (2)	M10x40 (4)
PP	M8x20 (1)	M8x20 (1)	M8x35 (2)	M10x40 (4)
PP-S	M8x35 (2)	M8x35 (2)	M8x50 (3)	M10x50 (5)

11. 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 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 at www.grundfos.com/product-recycling.

Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product Electric stirrers, to which the declaration below relates, is in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass das Produkt Electric stirrers, auf das sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmt.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que el producto Electric stirrers al que hace referencia la siguiente declaración cumple lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

HR: EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da je proizvod Electric stirrers, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EU-a.

IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che il prodotto Electric stirrers, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasz produkt Electric stirrers, którego deklaracja niniejsza dotyczy, jest zgodny z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobek Electric stirrers, na který se toto prohlášení vztahuje, je 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 produktet Electric stirrers som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

FR: Déclaration de conformité UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que le produit Electric stirrers, auquel se réfère cette déclaration, est conforme aux Directives du Conseil concernant le rapprochement des législations des États membres UE relatives aux normes énoncées ci-dessous.

HU: EU megfeleléségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) Electric stirrers termék, amelyre az alábbi nyilatkozat vonatkozik, megfelel az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat product Electric stirrers, waarop de onderstaande verklaring betrekking heeft, in overeenstemming is met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EU-lidstaten.

SI: Izjava o skladnosti EU

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

- Machinery Directive (2006/42/EC).
Standards used:
EN ISO 12100:2010,
EN 60034-1:2015-02,
EN 60204-1:2007-06.
- RoHS Directives (2011/65/EU and 2015/863/EU).
Standard used: EN IEC 63000:2018

This EU declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 98257071).

Bjerringbro, 1st March, 2022



Jimm Feldborg

Head of PD IND

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Person authorised to compile technical file and
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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:

El.stirrer (Electric stirrers)

- Supply of Machinery (Safety) Regulations 2008.
Standards used:
EN ISO 12100: 2010
EN 60034-1:2015-02
EN 60204-1:2007-06.
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019.
Standard used:
EN IEC 63000:2018.

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

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Bjerringbro, 01.March 2022



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