

CR, CRN pumps with CUE frequency converter

50/60 Hz IEC

Installation and operating instructions



CR, CRN 95-255
Installation and operating instructions
<http://net.grundfos.com/qri/99078486>



CUE
Installation and operating instructions
<http://net.grundfos.com/qri/96780034>



CR, CRN 95-255
Safety instructions
<http://net.grundfos.com/qri/99262913>



CUE
Safety instructions
<http://net.grundfos.com/qri/99674140>

CR, CRN pumps with CUE frequency converter

English (GB)

Installation and operating instructions	4
Declaration of conformity	11
Declaration of conformity	14

English (GB) Installation and operating instructions

Original installation and operating instructions

Table of contents

1. General information	4
1.1 Related instructions	4
1.2 Hazard statements	4
1.3 Notes	5
2. Product introduction	5
2.1 Product description	5
2.2 Intended use	5
2.3 Identification	6
3. Mechanical installation	8
3.1 Multipump setup	8
4. Electrical connection	8
4.1 Connecting the frequency converter to the motor	8
4.2 Cable between motor and frequency converter	8
4.3 Calculating the cross-sectional area of the flexible sheathed multicore cable	9
4.4 Verification of the installation	10
5. Servicing the product	10
6. Disposing of the product	10
7. Document quality feedback	10

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 Related instructions



This document is a supplement to the installation and operating instructions for the corresponding standard products. Make sure to read the installation and operating instructions listed below.

Title	QR code	Publication number
Installation and operating instructions		
CR, CRN 95-255		99078486
CUE		96780034
Safety instructions		
CR, CRN 95-255		99262913
CUE		99674140

1.2 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.

1.3 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**

This system consists of a Grundfos CR or CRN pump fitted with a 50 Hz or 60 Hz IEC motor and a CUE frequency converter. It has been pre-selected, and the frequency converter has been pre-programmed to the specific pump or motor combination and subsequent performance tested as a system before leaving the Grundfos factory.

2.2 Intended use

The system can be used indoor as well as outdoor depending on the IP classification of the system and national legislation.

2.2.1 Applications

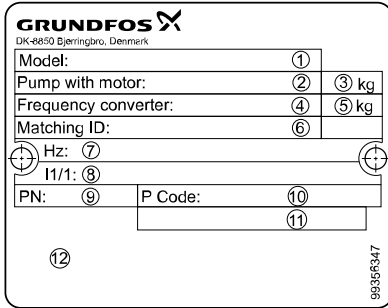
CR, CRN pumps are suitable for industrial applications such as the following:

- water supply
- cooling
- heating
- pressure boosting
- water treatment
- liquid transfer of cold or hot clean liquids.

2.3 Identification

2.3.1 Nameplate

Information on the system nameplate is described below.



Nameplate for the pump with motor and frequency converter

Pos.	Description
1	Model
2	Pump with motor: Product number
3	Pump with motor: Weight
4	Frequency converter: Product number
5	Frequency converter: Weight
6	Matching ID number
7	Frequency
8	Full-load current ($I_{1/1}$)
9	System product number
	Production code:
10	XXXXXX: Factory XXXXXX: YYMM (year and month)
11	Country of origin
12	Approval marks

Related information

- 3. [Mechanical installation](#)
- 5. [Servicing the product](#)

2.3.2 Type key

The system consisting of a pump, motor and frequency converter is identified by the letter 'L' in the type key. See information on pump version in the section on key to codes.

Example:

CR 125-4-2 L-F-A-E-HQQE

Code	Explanation
CR	Type range: CR, CRN
125	Flow rate [m^3/h]
4	Number of impellers
2	Number of reduced-diameter impellers
L	Code for pump version
F	Code for pipe connection
A	Code for materials
E	Code for rubber parts
	Code for shaft seal:
H	Shaft seal type designation
Q	Seal face material (rotating seal face)
Q	Seal face material (stationary seal face)
E	Secondary seal material (rubber parts)

Related information

[2.3.2.1 Key to codes](#)

2.3.2.1 Key to codes

Code	Description
Pump version	
A	Basic version
B	Oversize motor
C	CR compact
D	Pump with pressure intensifier
E	Pump with certificate
F	Pump for high temperatures (with air-cooled top)
G	E-pump without operating panel
H	Horizontal version
I	Different pressure rating
J	E-pump with a different maximum speed
K	Pump with low NPSH
L	Pump including Grundfos CUE and certificate

Code	Description
M	Magnetic drive
N	With sensor
O	Cleaned and dried
P	Undersize motor
Q	High-pressure pump with high-speed MGE motor
R	Belt-driven pump
S	High-pressure pump
T	Thrust-handling device
U	ATEX-approved pump
V	Cascade function
W	Deep-well pump with ejector
X	Special version
Y	Electropolished
Z	Pumps with bearing flange

Pipe connection

A	Oval flange
B	NPT thread
CA	FlexiClamp
CX	TriClamp
F	DIN flange
FC	DIN 11853-2 flange (collar flange)
FE	EN 1092-1, type E
G	ANSI flange
J	JIS flange
N	Changed diameter of ports
P	PJE coupling (Victaulic type)
X	Special version

Materials

A	Basic version
C	Carbon-free pump
D	Carbon-graphite-filled PTFE (bearings)/tungsten carbide
E	Pickled and passivated (Only Japan)
H	Flanges and base plate EN 1.4408
K	Bronze (bearings)/tungsten carbide
L	Motor stool, base plate and flanges EN 1.4408

Code	Description
M	Motor stool, base plate, coupling and flanges EN 1.4408 and coupling guards in cobber. Bolts, nuts and spacing pipes EN 1.4401 or higher grade
N	Flanges EN 1.4408
P	PEEK neck ring
Q	Silicon carbide/silicon carbide bearing in pump and silicon carbide/silicon carbide seal faces in thrust-handling device
R	Silicon carbide/silicon carbide bearing
S	PTFE neck rings
T	Base plate EN 1.4408
U	Silicon carbide/silicon carbide bearing in pump and silicon carbide/tungsten carbide seal faces in thrust-handling device
W	Tungsten carbide/tungsten carbide
X	Special version

Rubber parts in pump

E	EPDM
F	FXM (Fluoraz®)
K	FFKM (Kalrez®)
N	CR (Neoprene)
V	FKM (Viton®)

Shaft seal type designation

A	O-ring seal with fixed driver
H	Balanced cartridge seal with O-ring
O	Double seal, back-to-back
P	Double seal, tandem
X	Special version

Seal face material (rotating and stationary seal face)

B	Carbon, synthetic resin-impregnated
U	Cemented tungsten carbide
Q	Silicon carbide
X	Other ceramics

Secondary seal material (rubber parts)

E	EPDM
F	FXM (Fluoraz®)
K	FFKM (Kalrez®)
V	FKM (Viton®)

Related information[2.3.2 Type key](#)**3. Mechanical installation****WARNING
Electric shock**

Death or serious personal injury

- Be aware to combine matching ID for the frequency converter and the pump. Matching ID can be found on the system nameplate located on the pump and the frequency converter.

Related information[2.3.1 Nameplate](#)**3.1 Multipump setup****WARNING
Electric shock**

Death or serious personal injury

- Bypass valves must be installed in multipump setups to avoid turbine operation.

4. Electrical connection**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.

4.1 Connecting the frequency converter to the motor

Follow the steps below to connect the frequency converter to the motor:

1. Select the appropriate cable type (see the section on a cable between the motor and frequency converter).
2. Calculate the cross sectional area of the cable (see the section on how to calculate the cable cross sectional area of the flexible sheathed multicord cable).
3. Verify the installation (see the section on verification of the installation).

Related information[4.2 Cable between motor and frequency converter](#)[4.3 Calculating the cross-sectional area of the flexible sheathed multicore cable](#)[4.3.1 Equations for calculating the correct cable dimension](#)[4.4 Verification of the installation](#)**4.2 Cable between motor and frequency converter**

Make sure to use a flexible sheathed multicore cable that meets the requirements for your installation between the motor and frequency converter. To ensure safe operation, consider the following factors:

- indoor or outdoor use
- ambient temperature
- presence of water
- humidity
- presence of corrosive, polluting, or chemical substances
- mechanical impact
- UV/solar radiation.

Related information[4.1 Connecting the frequency converter to the motor](#)

4.3 Calculating the cross-sectional area of the flexible sheathed multicore cable

Take the below parameters into consideration when calculating the cross-sectional area of the flexible sheathed multicore cable:

The cable length influences the cross-sectional area of the cable due to the voltage drop.

The current I used for the dimensioning is the full-load current of the motor ($I_{1/1}$ or I_{max} , if stated on the motor nameplate).

- Base the cable cross-sectional area of the flexible sheathed multicore cable on the requirements in EN 60204-1 table 6.
- Apply installation method B1, B2, C, E or F.
- Base the minimum cross-sectional area of the flexible sheathed multicore cable on the motor full-load current ($I_{1/1}$ or I_{max} , if stated on the nameplate) and on the maximum ambient temperature.



Make sure that the ambient temperature does not exceed the maximum permissible temperature stated on the motor nameplate or the frequency converter nameplate.

Related information

[4.1 Connecting the frequency converter to the motor](#)

4.3.1 Equations for calculating the correct cable dimension

Use the below equations to calculate the correct cable dimensions for the cable connecting the frequency converter to the motor on the pump.

Example:

Installation method:	C ¹⁾
Current-carrying capacity (I _Z):	21 A ¹⁾
Q = Wire resistance:	0.0175 ²⁾
S = Square section of the wire:	2.5 mm ²
l = Wire length [m]:	25 m
I _B = full-load current I _{1/1} or I _{max} [A]:	21 A (stated on the motor nameplate)
cos φ:	0.8 (stated on the motor nameplate)
Maximum ambient temperature:	45 °C
Cor (Temperature correction factor):	0.71 for PVC cable ²⁾
U1 = measured voltage at the supply point:	400 V

1) Requirements in EN 60204-1 table 6 applying installation method B1, B2, C, E or F.

2) Ask the cable supplier for specific factors for the chosen cable.

Choose the cross-sectional area of the cable according to EN 60204-1 table 6. The table shows that a 2.5 mm² cable is sufficient.

Control in relation to ambient temperature

$$\text{Cablecor} \geq I_B \times \text{Cor}$$

$\text{Cablecor} \geq 21 \times 0.71 = 14.91 \text{ A} \rightarrow$ The cable is not okay for the full-load current of the pump

Pick the new dimension of the cable from table 6. The cross-sectional area is 6 mm² with a current-carrying capacity of 36 A.

$\text{Cablecor} = 36 \times 0.71 = 25.56 \text{ A} \rightarrow$ The cable is okay for the full-load current of the pump.

Control for voltage drop in the cable

See the below equations to check for voltage drop in the cable.

According to EN 60204-1, the maximum recommended voltage drop in the cable must be less than 5 %. In this case, $\cos \varphi$ equals to 0.8 (to be found on the motor nameplate).

Voltage drop:

$$\Delta U = I_B \times \frac{Q \times l \times \sqrt{3}}{S} \times \cos \varphi$$

$$\Delta U = 21A \times \frac{0.0175 \times 25 \times \sqrt{3}}{6} \times 0.8 = 2.12V$$

Voltage drop in percentage:

$$\Delta U \% = \frac{\Delta U \times 100}{U_1}$$

$$\Delta U \% = \frac{2.12 \times 100}{400V} = 0.53 \% \text{ okay.}$$

Related information

[4.1 Connecting the frequency converter to the motor](#)

4.4 Verification of the installation

Verification of the installation must be conducted according to EN 60204-1 clause 18.

See the minimum required checklist for verification below:

1. Ensure the continuity of the protective bonding circuit.
2. Ensure that insulation resistance tests at 500 V DC are at a nominal frequency of 50 Hz or 60 Hz. They result in $< 1 \text{ M}\Omega$ voltage test.
3. Carry out functional tests for the equipment to function as intended.

Related information

[4.1 Connecting the frequency converter to the motor](#)

5. Servicing the product

WARNING

Flammable material

Death or serious personal injury



- Make sure to order service parts according to the system number on the system nameplate when replacing the pre-programmed CUE.

Related information

[2.3.1 Nameplate](#)

6. 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 wheeled 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.

7. Document quality feedback

To provide feedback about this document, scan the QR-code using your phone's camera or a QR code app.



[Click here to submit your feedback](#)

Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products CR, CRN XXX-XX L, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky CR, CRN XXX-XX L, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sbližení právních předpisů členských států Evropského společenství.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne CR, CRN XXX-XX L som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que los productos CR, CRN XXX-XX L a los que hace referencia la siguiente declaración cumplen lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

FR: Déclaration de conformité UE

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

HR: EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi CR, CRN XXX-XX L, 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 i prodotti CR, CRN XXX-XX L, ai quali si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

BG: Декларация за съответствие на ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите CR, CRN XXX-XX L, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕО.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte CR, CRN XXX-XX L, auf die sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmen.

EE: EÜ vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode CR, CRN XXX-XX L, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ liikmesriikides.

FI: EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteen CR, CRN XXX-XX L, joita tämä vakuutus koskee, ovat EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα CR, CRN XXX-XX L, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

HU: EU megfeleléségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) CR, CRN XXX-XX L termékek, amelyekre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

LT: ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiamo, kad produktai CR, CRN XXX-XX L, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

LV: ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti CR, CRN XXX-XX L, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES dalībvalstu normatīvo aktu tuvināšanu.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty CR, CRN XXX-XX L, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

RO: Declarația de conformitate UE

Noi Grundfos declarăm pe propria răspundere că produsele CR, CRN XXX-XX L, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

RU: Декларация о соответствии нормам ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия CR, CRN XXX-XX L, к которым относится нижеприведённая декларация, соответствуют нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

SI: Izjava o skladnosti EU

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

TR: AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan CR, CRN XXX-XX L ürünlerinin, AB Üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 CR, CRN XXX-XX L 系列，其制造和性能完全符合以下所列欧盟委员会指令。

KO: EU 적합성 선언

Grundfos는 아래의 선언과 관련된 CR, CRN XXX-XX L 제품이 EU 회원국 법률에 기반하여 아래의 이사회 지침을 준수함을 단독 책임 하에 선언합니다.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten CR, CRN XXX-XX L, waarop de onderstaande verklaring betrekking heeft, in overeenstemming zijn met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EU-lidstaten.

PT: Declaração de conformidade UE

A Grundfos declara sob sua única responsabilidade que os produtos CR, CRN XXX-XX L, aos quais diz respeito a declaração abaixo, estão em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da UE.

RS: Deklaracija o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod CR, CRN XXX-XX L, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

SE: EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkterna CR, CRN XXX-XX L, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

SK: ES vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty CR, CRN XXX-XX L na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

UA: Декларація відповідності директивам EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби CR, CRN XXX-XX L, до яких відноситься нижченаведена декларація, відповідають директивам EU, переліченим нижче, щодо тотожності законів країн-членів ЕС.

JP: EU 適合宣言

Grundfos は、その責任の下に、CR, CRN XXX-XX L 製品が EU 加盟諸国の法規に関連する、以下の評議会指令に適合していることを宣言します。

BS: Izjava o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod CR, CRN XXX-XX L, na koji se odnosi izjava ispod, u skladu sa niže prikazanim direktivama Vijeća o usklađivanju zakona država članica EU.

ID: Deklarasi kesesuaian Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk CR, CRN XXX-XX L, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan berikut ini serta sedapat mungkin sesuai dengan hukum negara-negara anggota Uni Eropa.

MK: Декларација за сообразност на ЕУ

Ние, Grundfos, изјавуваме под целосна одговорност дека производителите CR, CRN XXX-XX L, на кои се однесува долунаведената декларација, се во согласност со овие директиви на Советот за приближување на законите на земјите-членки на ЕУ.

NO: EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktene CR, CRN XXX-XX L som denne erklæringen gjelder, er i samsvar med styrets direktiver om tilnærming av forordninger i EU-landene.

TH: คำประกาศความสอดคล้องตามมาตรฐาน EU

เราในนามของบริษัท Grundfos ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ CR, CRN XXX-XX L ซึ่งเกี่ยวข้องกับคำประกาศนี้ มีความสอดคล้องกับระเบียบคำสั่งตามรายการด้านล่างนี้ของสภาวิชาชีพว่าด้วยค่าประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EU

VI: TUYÊN BỐ TUÂN THỦ EU

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm CR, CRN XXX-XX L mà tuyên bố dưới đây có liên quan tuân thủ các Chỉ thị Hội đồng sau về việc áp dụng luật pháp của các nước thành viên EU.

IS: ESB-samræmisýfirlýsing

Við, Grundfos, lýsum því yfir og ábyrgjumst að fullu að vörum CR, CRN XXX-XX L, sem þessi yfirlýsing á við um, samræmist tilskipunum ráðs Evrópubandalaganna um samræmingu laga aðildarríkja ESB.

- Machinery Directive (2006/42/EC).
Standard used:
EN 809:1998 + A1:2009.
- EMC Directive (2014/30/EU).
Standard used:
EN 61800-3:2004 + A1:2012.
- Ecodesign Directive (2009/125/EC).
- RoHS Directives: 2011/65/EU and 2015/863/EU
Standard used:
EN IEC 63000:2018

This EC/EU declaration of conformity is only valid when published as part of the Grundfos installation

KZ: Сәйкестік жөніндегі ЕО декларациясы

Біз, Grundfos, ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты CR, CRN XXX-XX L өнімдері біздің жеке жауапкершілігімізде екенін мәлімдейміз.

MY: Perisytiharan keakuran EU

Kami, Grundfos, mengisytiharkan di bawah tanggungjawab kami semata-mata bahawa produk CR, CRN XXX-XX L, yang berkaitan dengan perisytiharan di bawah, akur dengan Perintah Majlis yang disenaraikan di bawah ini tentang penghampiran undang-undang negara ahli EU.

(EU) إقرار مطابقة الاتحاد الأوروبي :AR

نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتجين CR, CRN XXX-XX L، اللذين يختص بهما الإقرار أدناه، يكونان مطابقتين لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EU).

TW: EU 合格聲明

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 CR, CRN XXX-XX L 產品，符合下列近似 EU 會員國法律之議會指令。

AL: Deklara e konformitetit të BE

Ne, Grundfos, deklarojmë vetëm nën përgjegjësinë tonë se produktet CR, CRN XXX-XX L, me të cilat lidhet kjo deklaratë, janë në pajtueshmëri me direktivat e Këshillit të renditura më poshtë për përfaqsimin e ligjeve të shteteve anëtare të BE-së.

and operating instructions or safety instructions (publication number 92840207).

Bjerringbro, 1 October, 2022



Jimm Feldborg

Head of PD IND

Grundfos Holding A/S

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8850 Bjerringbro, Denmark

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

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:

CR, CRN XXX-XX L

- Supply of Machinery (Safety) Regulations 2008.
Standard used: EN 809:1998 + A1:2009.
- The Ecodesign for Energy-Related Products and Energy Information Regulations 2021
- The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019
- 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 (publication number 92840207).

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

Bjerringbro, 1 October, 2022



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