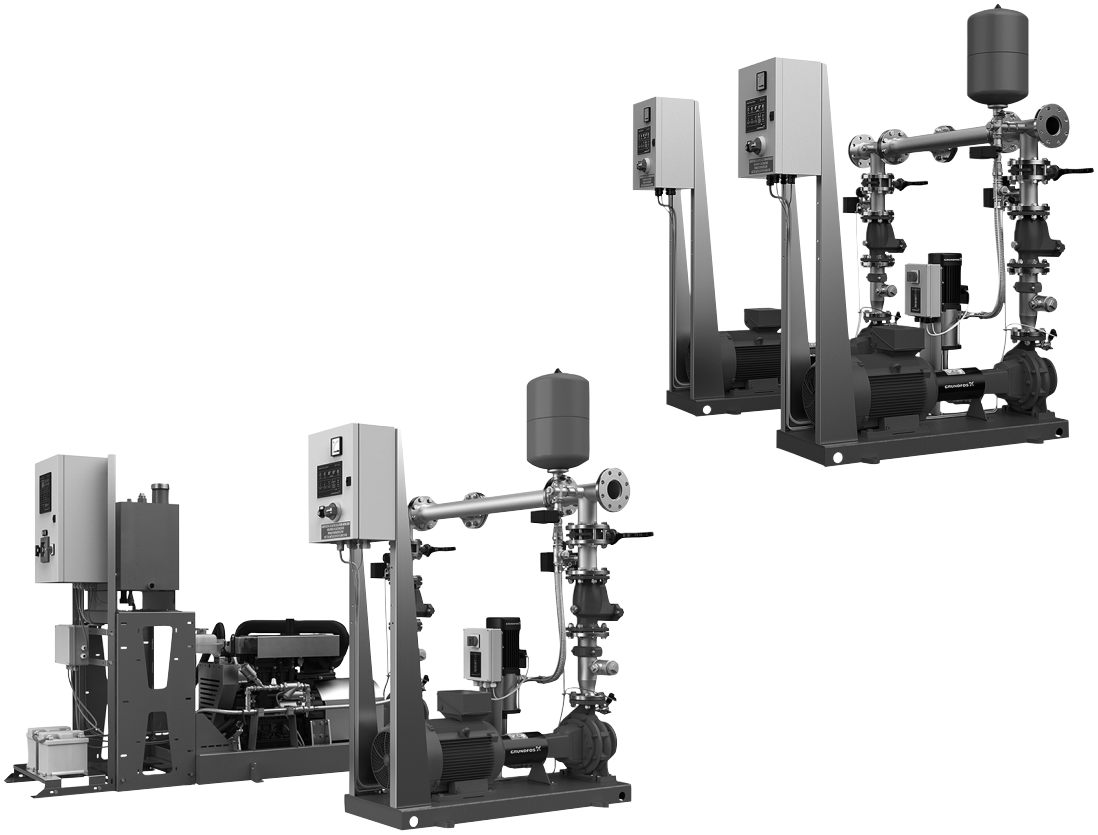
Hydro EN

Grundfos firefighting systems

Safety instructions and other important information



Hydro EN
Installation and operating instructions
(all available languages)
http://net.grundfos.com/qr/i/99901851

GRUNDFOS

Hydro EN

English (GB)
Safety instructions 4
EC/EU declaration of conformity 10

Original safety instructions

These safety instructions give a quick overview of the safety precautions to be taken in connection with any work on this system. Observe these safety instructions during handling, installation, operation, maintenance, service and repair of this system. These safety instructions are a supplementary document, and all safety instructions will appear again in the relevant sections of the installation and operating instructions. Keep these safety instructions at the installation site for future reference.

General safety warnings

The terminals and wires upstream the main switch of the control cabinet are live even if the switch is in OFF position.

DANGER
Electric shock
Death or serious personal injury

- Before any inspection, maintenance, service or repair of the system, make sure that the main switch is in OFF position, locked and tagged. Attach suitable isolation warning signs to prevent inadvertent reconnection.
- There are more than one control cabinets. Make sure that you disconnect the correct one belonging to the section of the system that needs intervention.
- The design of the electric system and the electrical installation must be carried out by a qualified electrician, appointed by the client, in accordance with local regulations.
- Do not do maintenance work when the power supply is switched ON.

WARNING
Electric shock
Death or serious personal injury

- Before switching on the power supply, make sure that the electrical insulation and protection are appropriate to avoid unexpected contact with water.

WARNING
Crushing hazard
Death or serious personal injury

- Any kind of activity or intervention on the system must be performed by qualified and authorised persons.
- Incorrect use may cause serious damage to the system or even to the entire firefighting system network.

CAUTION
Toxic material
Minor or moderate personal injury

- Do not ingest oil, fuel or coolant. In case of accidental ingestion, refer to the safety sheet of the specific product.

CAUTION
Slipping hazard
Minor or moderate personal injury

- Do not spill liquids, such as oil, fuel or coolant on the floor, as it may get slippery.
- Use adequate filling tools.

Transporting the system

The system has been prepared for shipment at the factory to minimise potential damage during handling and transport.

CAUTION
Crushing hazard
Minor or moderate personal injury

- Make sure that the cage is firmly anchored on the truck before shipment.
- Transport must be carried out by qualified persons.

Do not stress the pump excessively during handling and transport.

During transport, take action to prevent the pump and system components from freezing in bad weather conditions.

Handling and lifting the system

To facilitate handling, systems are shipped from the factory in pre-assembled blocks designed for transport by forklift or similar lifting equipment.

WARNING
Overhead load
Death or serious personal injury

- Make sure that the area below and around the lifted system is clear of people during operations.
- Do not allow anyone to stand on, under, or near the load.

WARNING
Crushing hazard
Death or serious personal injury

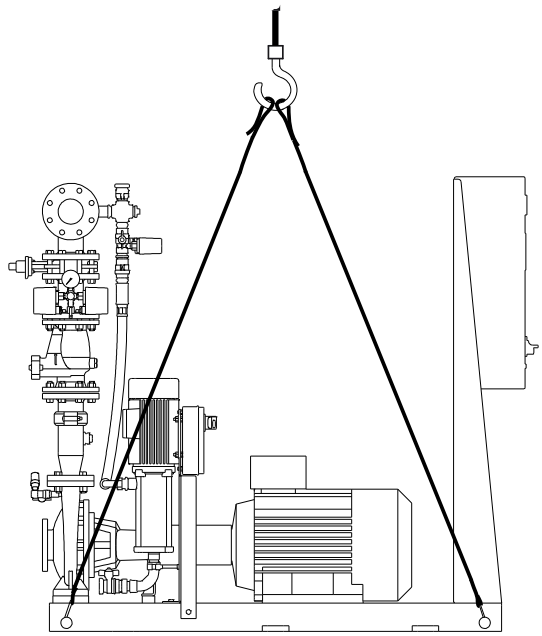
- Before starting any handling operations with the package, make sure that all the bolts for anchoring the system to the package are in place.
- Before lifting, make sure that the load is balanced.
- Whenever possible, handle the system with a forklift.
- When using chains or belts, hook the system to the base in the correct lifting points.
- Never use the lifting eyes of the individual components to lift the system.
- Lock the cabinet door before moving the system.
- Only use the lifting equipment which is in proper condition and suitable for lifting the weight and the shape of the system.
- Handling operations must be carried out by qualified and authorised persons.

CAUTION
Crushing hazard
Minor or moderate personal injury

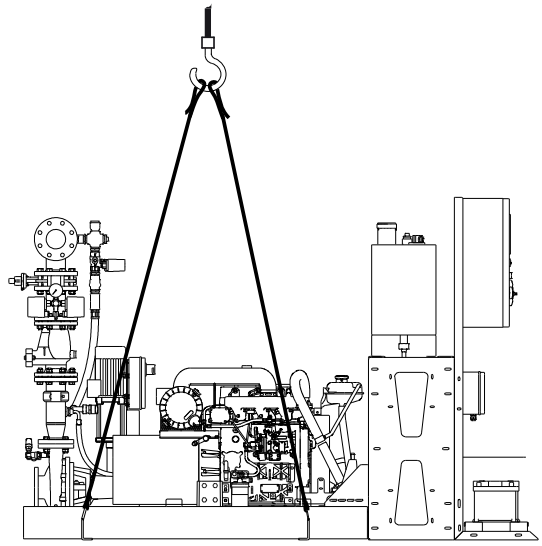
- Make sure that the package is integral before handling operations.

CAUTION
Sharp element
Minor or moderate personal injury

- Use the dedicated DPI (gloves) to remove the packaging.



Lifting the electric system



Lifting the diesel system

See also the installation and operating instructions for the diesel engine.

Location

DANGER
Crushing hazard
Death or serious personal injury

- The system must be installed in an access-controlled area. Make sure that only qualified and authorised persons have access to this area.
- If the site is left unattended before the installation is completed, all openings must be covered to prevent children or any other foreign objects, such as animals and stones, from entering.
- Use unbreakable covers that cannot be removed without tools.

WARNING
Crushing hazard
Death or serious personal injury

- Leave necessary space in the technical room during design for installing, using, maintaining and disassembling the system.
- The design of the technical room must be carried out by a qualified designer appointed by the client in accordance with local regulations.

Diesel pumps with water/water heat exchanger

CAUTION
Hot surface
Death or serious personal injury

- Open the coolant tank cap only when the engine is cold and only if strictly necessary.

Diesel tank with containment basin and vent connection

CAUTION
Toxic material
Minor or moderate personal injury

- The fuel vent pipe must be installed properly and make sure that all the parts are firmly supported, and all the connections are perfectly sealed to avoid concentration of fuel vapours in the technical room.
- Periodically check the integrity of the vent pipe.

CAUTION
Harm to persons
Minor or moderate personal injury

- During refuelling, use adequate refuelling tools and avoid lifting excessive loads, which can cause falls or musculoskeletal problems.
- Use appropriate lifting techniques and do not bend the waist.
- Only use suitable fuel (refer to the engine manual). The unsuitable fuel can ignite flames and/or cause serious damage to the system or even to the entire firefighting system network.
- Smoking and live flames are prohibited when refuelling.

Exhaust gas outlet of the diesel pumps

WARNING
Toxic material
Death or serious personal injury

- The exhaust pipe and the muffler must be installed properly so that all the parts are firmly supported without an extra load on the engine.
- All connections must be perfectly sealed to avoid gas leakage inside the technical room.
- Check periodically the integrity of the exhaust pipe.
- The outlet of the exhaust pipe must be positioned far from passage areas or areas where people are stationed, in accordance with current regulations.
- The design and installation of the exhaust pipe must be carried out by a qualified designer, appointed by the client, in accordance with local regulations.
- Incorrect sizing of the exhaust pipe can cause the system to fail.

CAUTION
Hot surface
Death or serious personal injury

- The exhaust pipe and the muffler must be insulated and protected by materials suitable for high temperatures, to avoid contacting with extremely hot parts and to prevent heat from being released into the technical room.
- Check periodically the integrity of the insulation layer.
- Surfaces may remain hot after the system has been shut off. Do not touch the hot surface before it cools down. If it is not possible to wait, wear protective gloves.

Mechanical installation

WARNING
Crushing of hands
Death or serious personal injury

- All pipes must be supported.
- Supports for pipes and components must guarantee the stability over time and have mechanical characteristics such as withstanding static and dynamic loads, as well as vibrations of the system during its operation.
- Installations in territories with seismic characteristics must also be carefully evaluated.
- Incorrect or not lasting supports may cause serious damage to the system or even to the entire firefighting system network.
- The design and execution of the supports of the system must be properly carried out in accordance with the relevant standards and regulations by specialists commissioned by the client.

Foundation and anchorage

WARNING
Crushing hazard
Death or serious personal injury

- The anchoring system must guarantee the stability and alignment of the system over time and have mechanical characteristics such as withstanding static and dynamic loads, as well as vibrations of the system during its operation.
- Installations in territories with seismic characteristics must also be carefully evaluated.
- Incorrect or not lasting anchorage may cause serious damage to the system or even to the entire firefighting system network.
- The design and execution of the anchoring system must be properly carried out in accordance with the relevant standards and regulations by designer appointed by the client.

Electrical installation

WARNING
Electric shock
Death or serious personal injury

- The design of the electric system and the electrical installation must be carried out by a qualified electrician, appointed by the client, in accordance with local regulations.
- Before installing any connections, check the compatibility of the system supply voltage.

CAUTION
Harm to persons
Minor or moderate personal injury

- Before connecting to batteries, make sure that the cables are connected correctly according to the electrical diagram.
- Before charging the batteries, check that the charger is compatible with the voltage and capacity of the batteries.
- This operation must be carried out by qualified persons.
- Make sure that the neutralizing powder for battery acid is always available in the technical room.
- Do not weld near the batteries and make sure that there is a good ground connection to avoid current leakage that can damage the batteries.
- Do not place tools on or near the batteries. This could result in a short circuit.

Commissioning the system

CAUTION
Pressurised system
Minor or moderate personal injury

- Before filling and pressurising the pipes, make sure that all the hydraulic connections are properly tightened and there are no open circuit parts.
- Water is under pressure inside the pipes. Be careful and keep a safe distance from the pipes.

Startup

WARNING
Automatic startup
Death or serious personal injury

- The system can start up automatically at any time. The operating noise level of the system is high and the system must be installed in an access-controlled area.
- Ear protection must be carried by, or available to, all persons authorised to enter the technical room.
- Observe the health and safety regulations and limit the exposure of persons to excessive noise.

WARNING
Harm to persons
Death or serious personal injury

- Clearly indicate where the key is stored in the technical room.
- Each time when people enter the technical room, or before any inspection, maintenance, service or repair of the system, make sure that the key is available on site.

WARNING
Pressurised system
Death or serious personal injury

- Keep a safe distance from the system when you are in the technical room.
- Check periodically the proper tightening of hydraulic connections and the integrity of all the components.

CAUTION
Hot surface
Minor or moderate personal injury

- Surfaces may remain hot after the system has been shut off. Do not touch the hot surface before it cools down. If it is not possible to wait, wear protective gloves.

Alignment of the pumps

DANGER
Automatic startup
Death or serious personal injury

- The system can start up automatically at any time. If the system is not set as out of order, it is mandatory to keep a safe distance from any of its parts.
- Before any inspection, maintenance, service or repair of the system, make sure that the main switch is in OFF position, locked and tagged. Attach suitable isolation warning signs to prevent inadvertent reconnection.

- In case of diesel pumps, isolate the fuel supply to the engine and disconnect the batteries by removing the negative terminal connector, before working on any part of the fuel supply or control system.
- Make sure that you wear suitable clothing on site. Do not let long hair down, wear loose or frayed clothing or jewelry to avoid being trapped into the equipment.
- Do not place fingers, hands, arms or tools into any openings.
- Under no circumstances should the system be operated, when the coupling guard is not in place and suitably secured.

WARNING
Crushing hazard
Death or serious personal injury

- Check regularly the alignment of the spacer coupling based on the operation time.

WARNING
Crushing hazard
Death or serious personal injury

- Check regularly that all screws are in place and correctly tightened.

Priming the pumps

CAUTION
Electric shock
Death or serious personal injury

- Make sure that all protections and cover of the electric parts are in place and secured.

CAUTION
Pressurised system
Minor or moderate personal injury

- Pay attention to the direction of the vent hole and make sure that no person can be hurt by the escaping liquid.

Calibrating the engine speed

DANGER
Crushing hazard
Death or serious personal injury

- Under no circumstances should the system be operated, when the belt guard is not in place and suitably secured.

- To detect the exact speed of the engine, remove the protection in the area of the mechanical seal of the pump, and read the rotation value using an optical tachometer oriented towards the shaft.
- Do not place fingers, hands, tools, and so on into any shaft seal opening.
- Make sure to restore the protection in the area of the mechanical seal once the work is finished.
- This operation must be carried out by qualified persons.

Maintenance

DANGER
Electric shock
Death or serious personal injury

- Before any inspection, maintenance, service or repair of the system, make sure that the main switch is in OFF position, locked and tagged. Attach suitable isolation warning signs to prevent accidental reconnection.
- There are more than one control cabinets. Make sure that you disconnect the correct one belonging to the section of the system that needs intervention.
- The electrical installation must be carried out by a qualified electrician appointed by the client in accordance with local regulations.

DANGER
Automatic startup
Death or serious personal injury

- The system can start up automatically at any time. If the system is not set as out of order, it is mandatory to keep a safe distance from any of its parts.
- Before any inspection, maintenance, service or repair of the system, make sure that the main switch is in OFF position, locked and tagged. Attach suitable isolation warning signs to prevent inadvertent reconnection.

- In case of diesel pumps, isolate the fuel supply to the engine and disconnect the batteries by removing the negative terminal connector, before working on any part of the fuel supply or control system.
- Make sure that you wear suitable clothing on site. Do not let long hair down, wear loose or frayed clothing or jewelry to avoid being trapped into the equipment.
- Do not place fingers, hands, arms or tools into any openings.
- Under no circumstances should the system be operated, when the coupling guard is not in place and suitably secured.

DANGER
Trapping hazard
Death or serious personal injury

- The system can start up automatically at any time. Keep a safe distance from the system when you are in the technical room.
- Do not do inspection, maintenance, service or repair of the system while the motor or the engine is in operation. If this is not possible, make sure that all protections against rotating or hot parts are in place and secured.

- Do not do inspection, maintenance, service or repair of the system while the motor is in operation. If this is not possible, make sure that all protections against rotating or hot parts are in place and secured.
- Make sure that you wear suitable clothing on site. Do not let long hair down, wear loose or frayed clothing or jewelry to avoid being trapped into the equipment.
- Do not place fingers, hands, arms or tools into any openings.

WARNING
Automatic startup
Death or serious personal injury

- The system can start up automatically at any time. The operating noise level of the system is high and the system must be installed in an access-controlled area.
- Ear protection must be carried by, or available to, all persons authorised to enter the technical room.
- Observe the health and safety regulations and limit the exposure of persons to excessive noise.

WARNING
Crushing hazard
Death or serious personal injury

- Any kind of maintenance on the system must be performed by qualified and authorised persons.
- Maintenance performed by unqualified persons or incorrect use can cause serious damage to the system or even to the entire firefighting system network.

WARNING
Harm to persons
Death or serious personal injury

- Do not remove the protections during engine operation. Keep a safe distance from any of its parts.

CAUTION
Harm to persons
Minor or moderate personal injury

- Do not change the oil or refuel the fuel tank when the engine is hot.
- Let the engine cool down before you run any operations with oil or fuel.

CAUTION
Pressurised system
Minor or moderate personal injury

- Water is under pressure inside the pipes. Make sure to gradually decrease the pressure and empty the pipes before operation. This operation must be carried out by qualified persons.

Verification and checks

WARNING
Automatic startup
Death or serious personal injury

- The system can start up automatically at any time. Before any operation on the coupling, make sure that the main switch is in OFF position, locked and tagged. Attach suitable isolation warning signs to prevent accidental reconnection.
- In case of diesel pumps, before working on any part of the fuel supply or control system, disconnect the batteries by removing the negative terminal connector.

- Check regularly the alignment of the spacer coupling based on the operation time.
- Check regularly that all screws are in place and correctly tightened.
- Before closing the coupling guard after the alignment (if required), make sure that all screws are correctly tightened.
- Under no circumstances should the system be operated, when the coupling guard is not in place and suitably secured.
- This operation must be carried out by qualified persons.

Duty electric pump

WARNING
Crushing hazard
Death or serious personal injury

- Check regularly the alignment of the spacer coupling based on the operation time.

Duty diesel pump

WARNING
Crushing hazard
Death or serious personal injury

- Check regularly if all the screws are in place and correctly tightened.

Oil check and replacement

CAUTION
Harm to persons
Minor or moderate personal injury

- During oil replacement, use adequate tools to avoid lifting excessive loads that may result in falls or musculoskeletal problems.

Cooling circuit of the diesel engine

WARNING
Hot surface
Death or serious personal injury

- The cooling circuits may remain hot and pressurised even after the engine has been shut off. Open the coolant tank cap only when the engine is cold and if strictly necessary.

Checking the coolant level

WARNING
Toxic material
Death or serious personal injury

- Do not ingest oil, fuel or coolant. In case of ingestion refer to safety sheet of the specific product.

Bolt and connection checks

CAUTION
Crushing hazard
Minor or moderate personal injury

- Periodically check the tightness of the bolts that may loosen due to vibrations generated by the operation of the system.

Fault finding

DANGER
Electric shock
Death or serious personal injury

- Before any inspection, maintenance, service or repair of the system, make sure that the main switch is in OFF position, locked and tagged. Attach suitable isolation warning signs to prevent accidental reconnection.

Precautions for disposal

WARNING
Electric shock
Death or serious personal injury

- Before dismantling the system, make sure that the main switch is in OFF position, locked and tagged. Attach suitable isolation warning signs to prevent inadvertent reconnection.
- Before loosening the bolts, make sure that the electrical connections are disconnected.
- Before loosening the bolts, drain the water from all the parts to be dismantled, and make sure that all protections and cover of the electric parts are in place and secured.

WARNING
Overhead load
Death or serious personal injury

- Make sure that the area below and around the lifted system is clear of people during operations.
- Do not allow anyone to stand on, under, or near the load.

WARNING
Crushing hazard
Death or serious personal injury

- Whenever possible, handle the system with a forklift.
- When using chains or belts, lift the system to the base by the correct lifting points.
- Never use the lifting eyes of the individual components to lift the system.

- Only use the lifting equipment which is in proper condition and is suitable to lift the weight and the shape of the system.
- Check the integrity of the lifting points before starting any handling operations. After lifecycle, the lifting points could be damaged.
- Pay attention to the centre of gravity of the parts to be removed.
- Lock the cabinet door before moving the system.
- Before loosening the bolts, make sure that the parts to be dismantled are correctly supported by a lifting tool suitable for the purpose.

CAUTION
Slipping hazard
Minor or moderate personal injury

- Remove all the liquids from the system before dismantling.
- Do not spill liquids, such as oil, fuel or coolant on the floor as it could get slippery.

Disposing of the system

This system 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.

EC/EU declaration of conformity

GB: EC/EU declaration of conformity

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

BG: Декларация за съответствие на ЕС/ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктът Hydro EN, за който се отнася настоящата декларация, отговаря на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕС/ЕО.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobek Hydro EN, na který se toto prohlášení vztahuje, je v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

ES: Declaración de conformidad de la CE/UE

Grundfos declara, bajo su exclusiva responsabilidad, que el producto Hydro EN 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 CE/UE.

FI: EY-/EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuote Hydro EN, jota tämä vakuutus koskee, on EY-/EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukainen seuraavasti.

FR: Déclaration de conformité CE/UE

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

GR: Δήλωση συμμόρφωσης ΕΚ/ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι το προϊόν Hydro EN, στο οποίο αναφέρεται η παρακάτω δήλωση, συμμορφώνεται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΚ/ΕΕ.

HU: EC/EU megfelelőségi nyilatkozat

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

IT: Dichiarazione di conformità CE/UE

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

LT: EB/ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktas Hydro EN, kuriam skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl EB/ES šalių narių įstatymų suderinimo.

PT: Declaração de conformidade CE/UE

A Grundfos declara sob sua única responsabilidade que o produto Hydro EN, ao qual diz respeito a declaração abaixo, está em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da CE/UE.

RO: Declaraţia de conformitate CE/UE

Noi Grundfos declarăm pe propria răspundere că produsul Hydro EN, la care se referă această declaraţie, este în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre CE/UE.

RU: Декларация о соответствии нормам ЕЭС/ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделие Hydro EN, к которому относится нижеприведённая декларация, соответствует нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕЭС/ЕС.

SK: EC/EÚ vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkt Hydro EN, na ktorý sa vyhlásenie uvedené nižšie vzťahuje, je v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EC/EÚ.

TR: EC/AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan Hydro EN ürünlerinin, EC/AB üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

UA: Декларація відповідності директивам ЕС/EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що виріб Hydro EN, до якого відноситься нижченаведена декларація, відповідає директивам ЕС/EU, переліченим нижче, щодо тотожності законів країн-членів ЄС.

NO: EFs/EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktet Hydro EN, som denne erklæringen gjelder, er i samsvar med Det europeiske råds direktiver om tilnærming av forordninger i EF-/EU-landene.

AR: إقرار مطابقة الاتحاد الأوروبي (EC/EU)

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتج Hydro EN، الذي يختص به الإقرار أدناه، يكون مطابقا لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (EC/EU).

- **Machinery Directive** (2006/42/EC).
  Standards used:
  Pump - EN 809:1998 + A1:2009
  Panel - EN 60204-1: 2006+A1: 2009 (except paragraph 7.3 for the panel).
- **Electrical equipment** designed for use within certain voltage limits (2014/35/EU).
  Standard used:
  Panel - EN 60439-2:2011.
- Electromagnetic compatibility (EMC) Directive (2014/30/EU).

This EC/EU declaration of conformity is only valid when published as part of the Grundfos safety instructions (publication number 99901875).
Suzhou, 10th January 2024

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