

Sololift2 CWC-3

Installation and operating instructions

60 Hz



English (GB) Installation and operating instructions

Original installation and operating instructions

These installation and operating instructions describe Grundfos Sololift CWC-3.

Sections 1-3 give the information necessary to be able to unpack, install and start up the product in a safe way.

Sections 4-8 give important information about the product, as well as information on service, fault finding and disposal of the product.

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



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.

1. General information

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 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. Safety Instructions

Receiving the product

WARNING



Crushing hazard

- Death or serious personal injury
- Stack maximum two pallets together under transportation.

Installing the product



Installation must be carried out by specially trained persons and according to local regulations.

DANGER

Electric shock



- Death or serious personal injury
- The protective earth (PE) of the power outlet must be connected to the protective earth of the product. The plug must have the same PE connection system as the power outlet.

DANGER

Electric shock



- Death or serious personal injury
- The installation must be fitted with a residual current device (RCD) with a tripping current less than 30 mA.

DANGER

Electric shock



- Death or serious personal injury
- The product must be connected to an external main switch with a minimum contact gap of 3 mm (0.12 inch) in all poles.

Servicing the product

WARNING

Electric shock



- Death or serious personal injury
- Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.



Maintenance and service must be carried out by specially trained persons and according to local regulations.

CAUTION

Sharp element



- Minor or moderate personal injury
- Beware of the sharp edges on the grinder. Wear protective gloves.

Fault finding the product

WARNING

Electric shock



- Death or serious personal injury
- Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

3. Receiving the product

3.1 Transporting the product

WARNING



Crushing hazard

Death or serious personal injury
- Stack maximum two pallets together under transportation.

4. Installing the product



Installation must be carried out by specially trained persons and according to local regulations.



Do not pull or lift the product by the power supply cable.

4.1 Mechanical installation

The product must be accessible for maintenance and repair.

If the product is installed behind a wall, a service hatch of sufficient size is necessary.

The product must not be installed behind an airtight wall. If the wall is airtight, the switch points (start and stop) may shift.

The product must be placed in a frost-free room to prevent the pumped liquid from freezing.

Make sure that all external pipes are adequately insulated.

The outlet pipe must be made of rigid material, such as copper, or of rigid PVC with solvent-welded joints.

To prevent the transmission of vibrations to buildings, make sure that the pipes are thoroughly fixed and that fittings cannot move and are not in contact with building parts.

An alarm device for acoustic alarm in case of malfunction or high level in the tank is available as an accessory (noise level 75 dB(A)). Product number: 97772315.

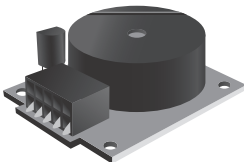


Fig. 1 Alarm device

4.2 Electrical connection

DANGER

Electric shock

Death or serious personal injury
- The protective earth (PE) of the power outlet must be connected to the protective earth of the product. The plug must have the same PE connection system as the power outlet.



DANGER

Electric shock

Death or serious personal injury
- The installation must be fitted with a residual current device (RCD) with a tripping current less than 30 mA.



DANGER

Electric shock

Death or serious personal injury
- The product must be connected to an external main switch with a minimum contact gap of 3 mm (0.12 inch) in all poles.



Electrical connection must be carried out by an authorized electrician.

Make sure that the product is suitable for the supply voltage and frequency available at the installation site.

The thermal switch cuts out the motor in case of overheating and cuts it in again automatically after cooling.

TM04 9469 4310

5. Product introduction

5.1 Product description

The CWC-3 is a small, compact automatic lifting station suitable for pumping domestic wastewater and sewage off places in private dwellings where wastewater cannot be led directly to the sewer by means of a natural downward slope.

This product is a domestic unit.

Toilets connected to this unit can be used like any normal toilet, and require minimum maintenance.

The unit will operate automatically as soon as the required level of water enters the tank.

If you are away for a long period (e.g. holidays) we recommend that you turn off the water supply to the toilet served by the unit.

Only the disposal of toilet paper, faecal matter and wastewater will be covered by warranty. Any damage due to foreign bodies such as cotton, condoms, sanitary towels, wet wipes, food, hair, metal, wood or plastic objects, will not be covered by the warranty. Solvents, acids and other chemicals can also cause damage to the unit, and will invalidate the warranty.

5.2 Intended use

The product is only suitable for pumping wastewater from a cabinet shower, bidet and/or washbasin as well as sewage from a wall-hung toilet. The compact lifting station is designed for prewall installations.



The product is only suitable for domestic use.

Applications according to EN 12050-3. Not for public use, only a limited number of users.



Installation with direct connection to a toilet and in the same room as sanitary appliances.

A second toilet must be available above the backflow level.

The product must be fastened to the floor to prevent uplift and turning.

5.3 Pumped liquids

Domestic wastewater and sewage containing toilet paper and faeces.

Ordinary liquids for cleaning of the appliances connected. pH value: 4-10.

The product is designed for flush volumes of 4, 6 and 9 litres. A 4-litre flush is permissible only if the amount of solids in the pumped liquid is small.



The product must not pump harsh chemicals or solvents. See the quick guide.

6. Servicing the product

Always use original accessories from Grundfos to ensure safe and reliable operation.

WARNING

Electric shock



Death or serious personal injury

- Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.



Maintenance and service must be carried out by specially trained persons and according to local regulations.



If the power supply cable is damaged, it must be replaced by the manufacturer, the manufacturer's service partner or similarly qualified person.

For service kits, see www.product-selection.grundfos.com.



The product must be thoroughly cleaned before it is returned for service. Otherwise, the warranty will be void.

6.1 Service documentation

Service documentation is available at www.product-selection.grundfos.com.

If you have any questions, please contact the nearest Grundfos company or service workshop.

6.2 Maintenance

The lifting station does not require any special maintenance, but we recommend that you check operation and pipe connections at least once a year. Change the carbon filter once a year. See section [6.4 Service instructions](#).

6.3 Adjustment of run time

The default setting ensures proper operation in most pipes. If the pipes are particularly long or short, it may be necessary to adjust the run time.

For a guide to adjusting the run time, see www.product-selection.grundfos.com.

6.4 Service instructions

Thanks to the product design, service is easy in case of malfunction or a blocked pump.

Impeller or grinder stuck

1. Disconnect the power supply.
2. Unscrew the plug in the cover.
3. Insert a screwdriver (min. 110 mm) through the plug hole and into the slot of the shaft end. Turn the shaft right and left to free the impeller or grinder from dirt.
4. Fit the plug and switch on the power supply to check if the impeller or grinder can rotate freely.

Operation by means of a power drill

If the product cannot be operated by electrical power, disconnect the power supply and empty the toilet and tank by means of a power drill.

Pressure switch pipe blocked

The pressure switch unit can be removed separately.

1. If the water level in the tank is above the motor flange, disconnect the power supply and drain the tank by means of the drain hose.
2. Unscrew the cover.
3. Pull out the complete pressure switch.
4. Check and clean the pressure switch pipe. Make sure that the little tube in the top of the pipe has not become blocked while you have cleaned the pipe!
5. Lubricate the sealing area of the pressure switch for easier fitting.

Foreign body in the tank

CAUTION



Sharp element

Minor or moderate personal injury
- Beware of the sharp edges on the grinder. Wear protective gloves.

1. If the water level in the tank is above the motor flange, disconnect the power supply and drain the tank by means of the drain hose. See image 3.1 in the appendix.
2. Unscrew the cover.
3. Remove the four screws of the motor flange.
4. Lift the motor flange to reduce the compression of the O-ring. Insert a screwdriver into the notch underneath the power supply cable and press it down.
5. Lift out the complete motor-pump unit by the handles.



Lift the unit vertically before tilting it!

6. Check and clean the tank and impeller or grinder.

Carbon filter

Replace the carbon filter once a year to ensure sufficient filter function.



Instead of using a carbon filter, Sololift can also be vented through a venting pipe. In this case a venting valve is needed.
Product number: 98059587.

7. Fault finding the product

WARNING

Electric shock



- Death or serious personal injury
- Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

See also section [6.4 Service instructions](#).

Fault	Cause	Remedy
1. The motor does not start when the level in the tank reaches the start level.	a) Supply failure.	Reestablish the power supply.
	b) A fuse is blown. If a new fuse blows at once, either the cable or motor is faulty.	Replace the fuse. Measure the cable and motor. If the cable or motor is defective, replace the defective parts.
	c) The impeller or grinder is stuck. The thermal switch has tripped.	Free the impeller or grinder, and wait until the motor is cooled down and the thermal switch has reset.
	d) The pressure switch pipe is blocked.	Remove the pressure switch and clean the pipe.
2. The motor hums but does not operate.	a) The impeller or grinder is stuck.	Free the impeller or grinder and check that it can rotate freely.
	b) The motor or capacitor is defective.	Replace the motor or capacitor.
	c) The control board is defective.	Replace the control board.
3. The motor runs continuously or at irregular intervals.	a) Water is leaking from the inlet into the tank.	Check for leaking appliances.
	b) Water is leaking back into the tank from the outlet pipe.	Check the non-return flap.
	c) The pressure switch is defective.	Replace the pressure switch unit.
4. The pump runs but does not deliver the rated flow rate.	a) The pump or tank is blocked.	Remove the blockage.
	b) There is an air pocket in the pump or the vent hole in the pump housing is blocked.	Check operation of the vent valve in the tank. Check that the carbon filter is not wet. Check that the vent hole in the pump housing is not blocked.
	c) The outlet port or pipe is blocked.	Remove the blockage. Check the non-return flap.
5. The lifting station evacuates slowly.	a) The outlet pipe is too long or has an excessive number of bends.	Increase the outlet pipe size. Change pipes to reduce the number of bends. Change bends to soft bends.
	b) The pump housing is leaky.	Replace the pump housing (service part).
	c) The hydraulics or grinder is blocked.	Check and clean the hydraulics and grinder.
6. Rattling noise from the lifting station, but water is evacuated.	a) A foreign body is hitting the impeller or grinder.	Remove the foreign body.
7. Odour from the tank.	a) The carbon filter is contaminated.	Replace the carbon filter.

Fault	Cause	Remedy
8. Water from the shower or another appliance connected to the lower inlets drains off slowly. Backflow from the lifting station.	a) The non-return flap in the inlet is stuck, it does not open or close sufficiently.	Check the non-return flap.
	b) The hydraulics or grinder is blocked.	Check and clean the hydraulics and grinder.
	c) The start level has changed.	Check and clean the pressure switch pipe.
	d) The inlet pipe diameter is too small.	Use a pipe with a larger diameter.

8. Technical data

Supply voltage

1 x 220-240 V - 10 %/+ 6 %, 60 Hz.

Power consumption

Maximum 655 W.

Power factor

Cos φ 0.93.

Speed

3400 min⁻¹.

Rated current

3.0 A.

Insulation class

F.

Noise level

< 70 dB(A) to 12050-2.

Flow rate

Maximum 142 l/min.

System pressure

Maximum pump head: 8.4 m.

Maximum system head: 6.0 m.



The system pressure must not exceed 6 m head to guarantee a sufficient drain of the connected sanitary appliances.

Supply cable

1.5 m, 0.75 mm² (H05VV-F-3G).

Net weight

7.1 kg.

Start and stop levels

Start level: 72 mm above bottom.

Stop level: 52 mm above bottom.

Liquid temperature

Maximum 50 °C.

Ambient temperature

+5 °C to +40 °C.

Duty

S3 - 50 % - 1 min. (30 seconds on; 30 seconds off).

Marking



Approvals



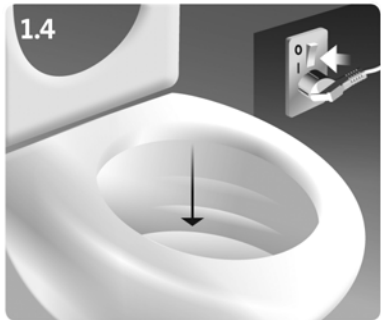
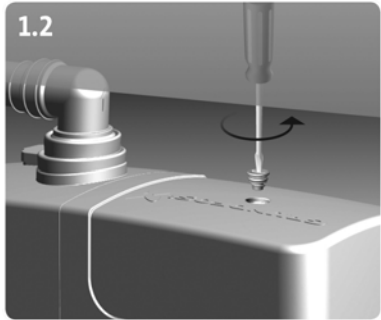
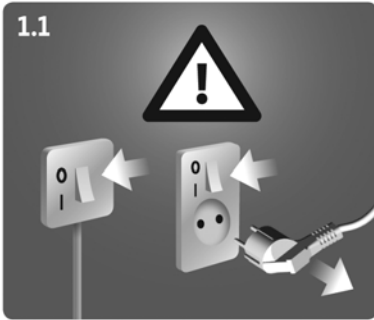
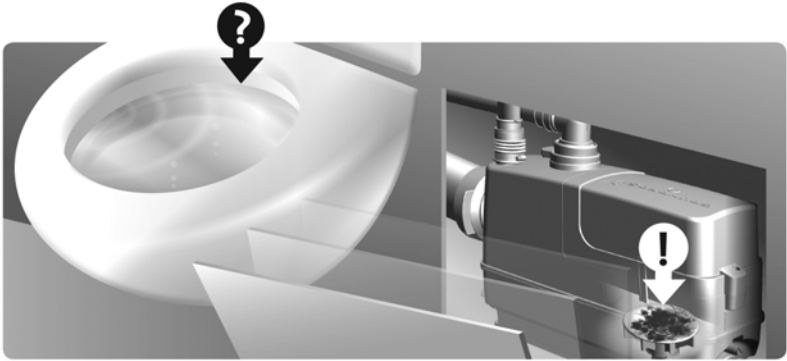
9. Disposing of the product

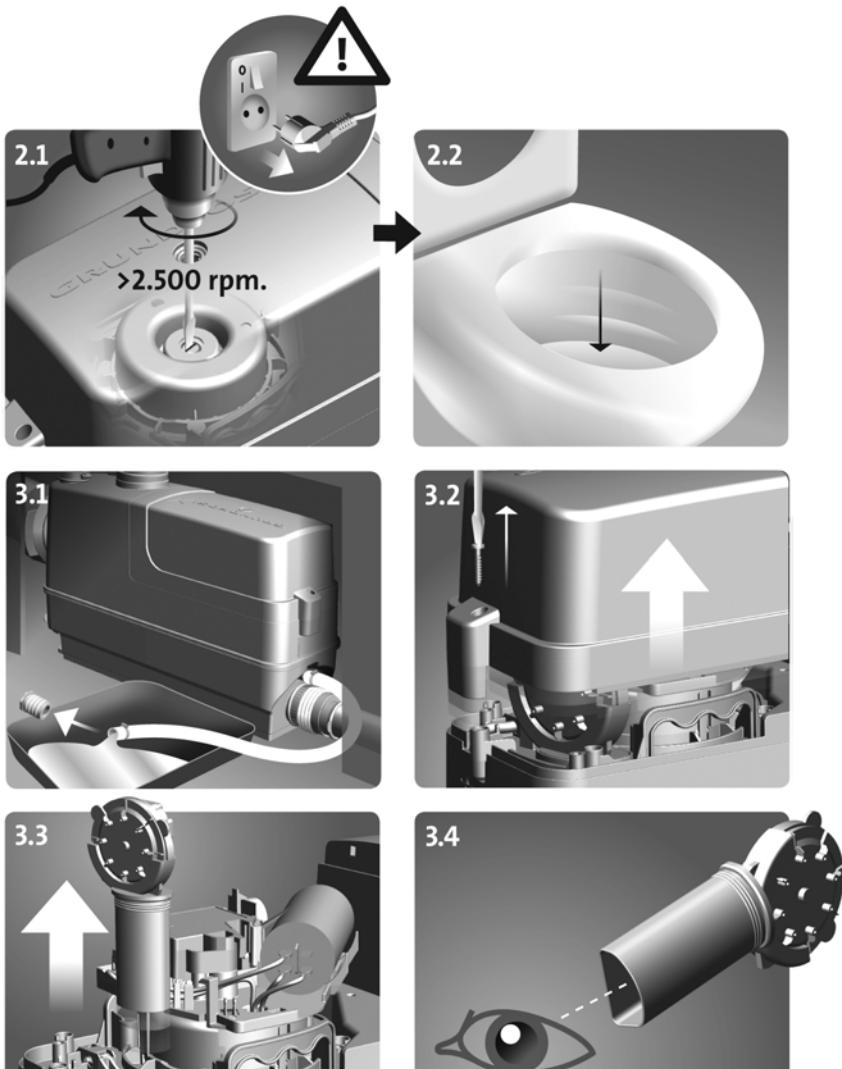
This product or parts of it must be disposed of in an environmentally sound way:

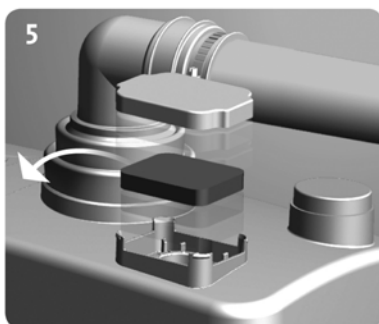
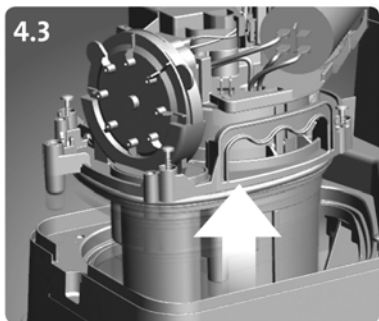
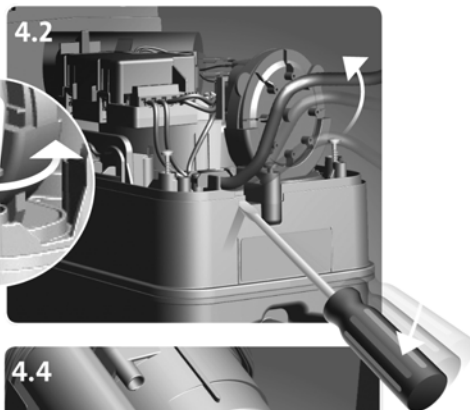
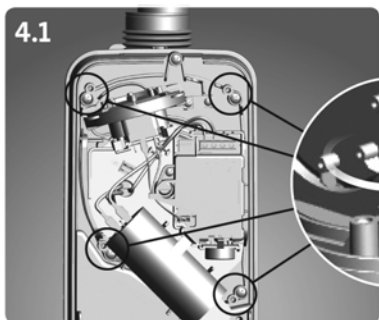
1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.



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.







Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product Sololift, 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.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que el producto Sololift 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.

PT: Declaração de conformidade UE

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

AR: إقرار مطابقة EU

نقر نحن، جرونڤوس، بمقتضى مسؤوليتنا الفردية بأن المنتج Sololift، الذي يختص به الإقرار أدناه، يكون مطابقاً لتوجيهات المجلس المذكورة أدنى بشأن التقريب بين قوانين الدول أعضاء المجموعة الأوروبية/الاتحاد الأوروبي (EU).

- Low Voltage Directive: 2014/35/EU
Standards used:
EN60335-1: 2012
EN60335-1: 2012/A11: 2014
EN60335-2-41: 2003 +A1: 2004 +A2: 2010
- Applies from July 22, 2019
RoHS Directives (2011/65/EU and 2015/863/EU)
Standards used: EN 50581: 2012

This EU declaration of conformity is only valid when published as part of the Grundfos safety instructions (publication number 98661663).

Bjerringbro, 21.09.2018



Florian Joseph
Product Engineering Manager
Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

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

Declaration of performance

GB:

EU declaration of performance in accordance with Annex III of Regulation (EU) No 305/2011 (Construction Product Regulation)

1. Unique identification code of the product type:
-EN 12050-3.
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):
-Sololift2 CWC-3 lifting stations marked with EN 12050-3 on the nameplate.
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
-Lifting stations for pumping of wastewater containing faecal matter for limited applications according to EN 12050-3.
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):
-Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro
Denmark.
5. NOT RELEVANT.
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
-System 3.
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:
-TÜV Rheinland LGA Products GmbH, identification number: 0197.
Performed test according to EN 12050-3 under system 3. (description of the third party tasks as set out in Annex V)
-Certificate number:
LGA-Certificate No. 7310103 (Made in Italy), 7313131 (Assembled in Serbia)Type-tested and monitored.
8. NOT RELEVANT.
9. Declared performance:
The products covered by this declaration of performance are in compliance with the essential characteristics and the performance requirements as described in the following:
-Standard used: EN 12050-3:2001.
10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

:AR

إقرار EC (المجموعة الأوروبية) للإداء وفقاً للملحق 3 لائحة (EU) (الاتحاد الأوروبي) رقم 305/2011 (لائحة منتجات التشييد)

1. رمز التصريف الفريد لنوع المنتج:
- EN 12050-3.
2. النوع أو رقم التشغيلة أو الرقم المسلسل أو أي عنصر آخر يتبع (تعريف هوية المنتج وفقاً لمطلب المادة 11 (4))
- محطات الرفع Sololift CWC-3 يكون معيارها EN 12050-3 بلوحة اسم الموديل.
3. عرض استخدام أو استخدامات منتج التشييد، وفقاً للمواصفة التقنية المتوافقة المعمول بها، كما تتوقعها الجهة المصنعة:
- محطات الرفع لضخ مياه الصرف التي تحتوي على مادة برازية للتطبيقات المحدودة بموجب EN 12050-3.
4. الاسم والاسم التجاري المسجل أو العلامة التجارية المسجلة و عنوان (الاتصال بالجهة المصنعة كما يجب وفقاً للمادة 11 (5)):
- Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro
الدنمارك.
5. غير ذي صلة بالموضوع.
6. نظام أو أنظمة التقييم والتحقق من انتظام أداء منتج التشييد كما هو موضح في الملحق 5:
- النظام 3.
7. في حالة وجود معيار متوافق يغطي إقرار الأداء المتعلق بمنتج تشييد:
- TÜV Rheinland LGA Products GmbH، رقم التعريف: 0197.
أجرت الاختبار وفقاً للمعيار EN 12050-3 بمقتضى النظام 3. (وصف مهام الطرف الثالث كما هو موضح في الملحق 5).
- رقم الشهادة:
LGA (سلطة الحكومة المحلية) رقم 7313131. خضعت لاختبار النوع والمراقبة.
8. غير ذي صلة بالموضوع.
9. الأداء المعلن: المنتجات التي يغطيها إقرار الأداء هذا تكون مطابقة للخصائص الأساسية ومتطلبات الأداء الموضحة فيما يلي:
- المعايير المستخدمة: EN 12050-3:2001.
10. يكون أداء المنتج المحدد في الفقرتين 1 و2 مطابقاً للإداء المعلن في النقطة 9.

ES:

Declaración UE de prestaciones conforme al Anexo III del Reglamento (UE) n.º 305/2011 (Reglamento de productos de construcción)

1. Código de identificación único del tipo de producto:
-EN 12050-3.
2. Tipo, lote o número de serie, o cualquier otro elemento que facilite la identificación del producto de construcción de acuerdo con los requisitos establecidos en el Artículo 11(4):
-Estaciones elevadoras Sololift2 CWC-3 en cuya placa de características figure la norma EN 12050-3.
3. Uso o usos previstos del producto de construcción, conforme a la especificación técnica armonizada correspondiente, según lo previsto por el fabricante:
-Estaciones elevadoras para el bombeo de aguas residuales que no contengan materia fecal en cuya placa de características figure la norma EN 12050-3.
4. Nombre, nombre comercial registrado o marca comercial registrada y domicilio de contacto del fabricante de acuerdo con los requisitos establecidos en el Artículo 11(5):
-Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro
Dinamarca.
5. NO CORRESPONDE.
6. Sistema o sistemas de evaluación y verificación de la continuidad de las prestaciones del producto de construcción, de acuerdo con lo establecido en el Anexo V.
-Sistema 3.
7. Si la declaración de prestaciones concierne a un producto de construcción cubierto por una norma armonizada:
-TÜV Rheinland LGA Products GmbH, número de identificación: 0197.
Ensayo ejecutado según las normas EN 12050-3 sistema 3. (Descripción de las tareas de las que deben responsabilizarse otras partes de acuerdo con lo establecido en el Anexo V).
-Número de certificado:
Certificado LGA n.º 7313131. Tipo sometido a ensayo y monitorizado.
8. NO CORRESPONDE.
9. Prestaciones declaradas:
Los productos que cubre esta declaración de prestaciones satisfacen las características fundamentales y requisitos en materia de prestaciones descritos en:
-Norma aplicada: EN 12050-3:2000.
10. Las prestaciones del producto indicado en los puntos 1 y 2 cumplen lo declarado en el punto 9.

PT:

Declaração de desempenho UE, em conformidade com o Anexo III do Regulamento (UE) N.º 305/2011 (Regulamento de Produtos da Construção)

1. Código de identificação exclusivo do tipo de produto:
-EN 12050-3.
2. Tipo, lote ou número de série ou qualquer outro elemento que permita a identificação do produto de construção, em conformidade com o Artigo 11(4):
-Estações elevatórias Sololift2 CWC-3 com a indicação EN 12050-3 na chapa de características.
3. Utilização ou utilizações prevista(s) do produto de construção, em conformidade com a especificação técnica harmonizada aplicável, conforme previsto pelo fabricante:
-Estações elevatórias para bombeamento de águas residuais sem matéria fecal com a indicação EN 12050-3 na chapa de características.
4. Nome, nome comercial registrado ou marca registrada e endereço de contacto do fabricante, em conformidade com o Artigo 11(5):
-Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro
Dinamarca.
5. NÃO RELEVANTE.
6. Sistema ou sistemas de avaliação e verificação da regularidade do desempenho do produto de construção, conforme definido no Anexo V:
-Sistema 3.
7. Em caso de declaração de desempenho referente a um produto de construção abrangido por uma norma harmonizada:
-TÜV Rheinland LGA Products GmbH, número de identificação: 0197.
Teste realizado em conformidade com EN 12050-3 ao abrigo do sistema 3.
(descrição das tarefas de partes terceiras, conforme definido no Anexo V)
-Número do certificado:
Certificado LGA N.º 7313131. Testado e monitorizado.
8. NÃO RELEVANTE.
9. Desempenho declarado:
Os produtos abrangidos por esta declaração de desempenho cumprem as características essenciais e os requisitos de desempenho conforme descritos em:
-Normas utilizadas: EN 12050-3:2000.
10. O desempenho do produto identificado nos pontos 1 e 2 encontra-se em conformidade com o desempenho declarado no ponto 9.

EU declaration of performance reference number: 98661663.

Bjerringbro, 21.09.2018



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98661663 0719

ECM: 1261395

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