

Sololift2 C-3

Installation and operating instructions

60 Hz



English (GB) Installation and operating instructions

Original installation and operating instructions.

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Warning

Prior to installation, read these installation and operating instructions. Installation and operation must comply with local regulations, EN 12056-4 and accepted codes of good practice.



Warning

The use of this product requires experience with and knowledge of the product. Persons with reduced physical, sensory or mental capabilities must not use this product, unless they are under supervision or have been instructed in the use of the product by a person responsible for their safety. Children must not use or play with this product.

1. Symbols used in this document



Warning

If these safety instructions are not observed, it may result in personal injury.



Warning

The surface of the product may be so hot that it may cause burns or personal injury.



If these safety instructions are not observed, it may result in malfunction or damage to the equipment.



Notes or instructions that make the job easier and ensure safe operation.

2. General description

The C-3 is a small, compact automatic lifting station suitable for pumping grey wastewater off places where it cannot be led directly to the sewer by means of a natural downward slope.



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

3. Applications

The product is suitable for pumping grey wastewater from a washing machine, dishwasher, kitchen sink, bath tub or shower.



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

4. Pumped liquids

Grey wastewater up to 90 °C.

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

Caution

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

5. Installation

Caution

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

We strongly recommend that you install an LC A2 alarm device (accessory) if a washing machine, dishwasher, bathtub and/or a shower are connected to the lifting station.

Note

The LC A2 will emit an acoustic alarm and switch off the washing machine or dishwasher if the water level in the tank becomes too high.

Caution

We strongly recommend that you change the level switch for applications involving foaming wastewater. In this case please use the pressure switch with product number 98144467.

The product must be accessible for maintenance and repair.

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

Make sure that all external pipework is adequately insulated.

Note

The discharge 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 pipework is thoroughly fixed and that fittings cannot move and are not in contact with building parts.

6. Electrical connection

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

The electrical connection must be carried out in accordance with local regulations.

Warning

The product must be earthed.

The installation must include an earth leakage circuit breaker for protection against earth fault currents. This will ensure protection when using a Schuko plug or another plug with earth pin.



The product must be connected to a mains switch with a minimum contact gap of 3 mm in all poles.

In case of overtemperature, a thermal switch cuts out the motor and cuts it in automatically when it has cooled sufficiently.

7. Service

Warning

The product must only be serviced by trained service personnel.



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

To ensure safe and reliable operation, always use original spare parts from Grundfos.

For service kits, see www.grundfos.com > WebCAPS > Service.

Note

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

7.1 Service documentation

Service documentation is available at www.grundfos.com > WebCAPS > Service.

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

7.2 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.

Note

If the lifting station is connected to a washing machine or kitchen sink, we recommend that you check the float switch unit every six months for fibres and grease/fat.

Change the carbon filter once a year. See section [7.3 Service instructions](#).

7.3 Service instructions

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

Digits in the following sections refer to the pictures in the appendix at the end of this booklet.



Warning

The product may contain hot water.

The surface of the product may be so hot that it may cause burns or personal injury!



Warning

Before carrying out any service work, remove the fuse, pull out the plug, or switch off the power supply. Make sure that the power supply cannot be accidentally switched on.

All rotating parts must have stopped moving.

The product must only be serviced by trained service personnel.

Impeller stuck

1. Disconnect the power supply.
2. Unscrew the cover.
3. Turn the motor shaft to the right and left with a screwdriver inserted into the slot in the shaft end to free the impeller from dirt.
4. Fit the cover, and switch on the power supply to check if the impeller can rotate freely.

Operation by means of a power drill

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

Foreign body in tank

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. 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 supply cable and press it down.
5. Lift out the complete motor-pump unit by the handles.

Note

Lift the unit vertically before tilting it!

6. Check and clean the impeller, the protecting tube of the float switch and the tank.

Note

Check that the float switch works properly before fitting the cover.

Float switch pipe blocked

Note

The float switch unit can be removed separately.

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.

1. Unscrew the cover.
Turn the bayonet coupling 10 ° clockwise.
Pull out the float switch unit.
Press in the two tabs on the protecting tube.
Pull down the protecting tube.
2. Check and clean the float switch pipe.

Note

Check that the float switch works properly before fitting the cover.

Note

Lubricate the O-ring seat of the float switch in the motor flange for easier fitting.

Carbon filter

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

Note

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.

8. Technical data

Supply voltage

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

Power consumption

630 W.

Power factor

Cos ϕ 0.95.

Speed

3400 min⁻¹.

Rated current

3.1 A.

Insulation class

F.

Noise level

< 70 dB(A) to 12050-2.

Flow rate

Max. 178 l/min.

System pressure

Max. pump head: 9.0 m.

Max system head: 6.0 m.

Note

The system pressure should 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

6.6 kg.

Start and stop levels

Start level 1: 65 mm above floor level.

Start level 2: 115 mm above floor level.

Stop level: 35 mm above floor level.

Liquid temperature

75 °C continuously (90 °C for 30 min.).

Ambient temperature

+5 °C to +40 °C.

Duty

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

Marking



Approvals



9. Fault finding

See also section [7.3 Service instructions](#).



Warning

Remove the fuse, pull out the plug, or switch off the power supply.
Make sure that the power supply cannot be accidentally switched on.

All rotating parts must have stopped moving.

The product must only be serviced by trained service personnel.

Fault	Cause	Remedy
1. Motor does not start when the level in the tank reaches the start level.	a) Supply failure.	Reestablish the power supply.
	b) Fuse blown. If new fuse blows at once, either cable or motor is faulty.	Replace the fuse. Measure cable and motor. If cable or motor is defective, replace the defective parts.
	c) Impeller stuck. Thermal switch tripped.	Free the impeller, and wait until the motor is cooled down and the thermal switch has reset.
	d) Float switch stuck.	Remove the float switch and clean the pipe.
2. Motor hums but does not operate.	a) Impeller stuck.	Free the impeller and check that it can rotate freely.
	b) Motor or capacitor defective.	Replace the motor or capacitor.
3. Motor runs continuously or at irregular intervals.	a) Water leaking from inlet into tank.	Check for leaking appliances.
	b) Water leaking back into tank from discharge pipe.	Check the non-return flap.
	c) Float switch defective or stuck.	Clean the float switch unit or replace it, if necessary.
4. Motor runs but does not evacuate water.	a) Pump or tank blocked.	Remove blockage.
	b) Air lock in pump or vent hole in pump housing blocked.	Check operation of 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) Discharge port or pipe blocked.	Remove blockage. Check the non-return flap.
5. The lifting station evacuates slowly.	a) Discharge pipe is too long or has an excessive number of bends.	Increase the discharge pipe size (maximum 40 mm). Change pipework to reduce number of bends. Change bends to soft bends.
	b) The pump housing is leaky.	Replace the pump housing (service part).
	c) Hydraulics blocked.	Check that the motor shaft can rotate freely. Remove the motor flange to clean the impeller.
6. Rattling noise from the lifting station, but water is evacuated.	a) Foreign body hitting the impeller.	Remove the foreign body.
7. Odour from the tank.	a) Carbon filter contaminated.	Replace the carbon filter.

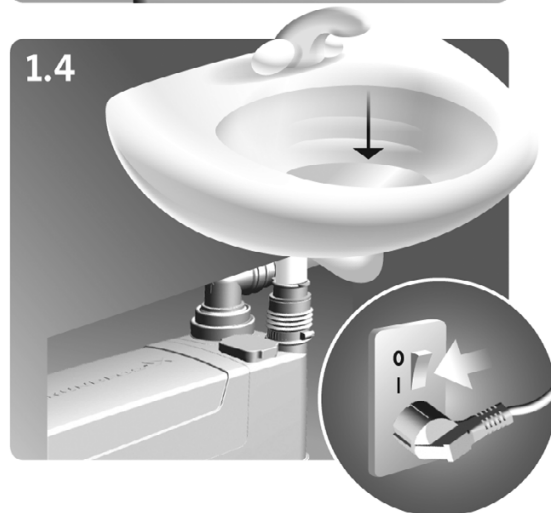
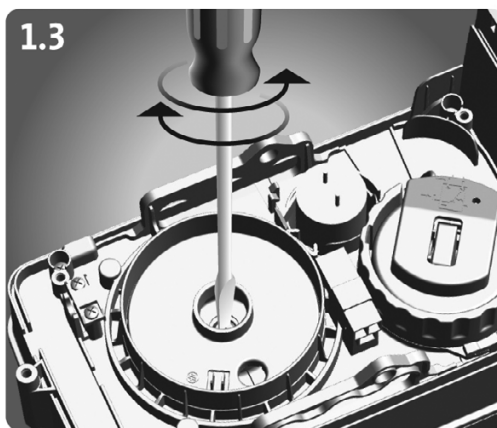
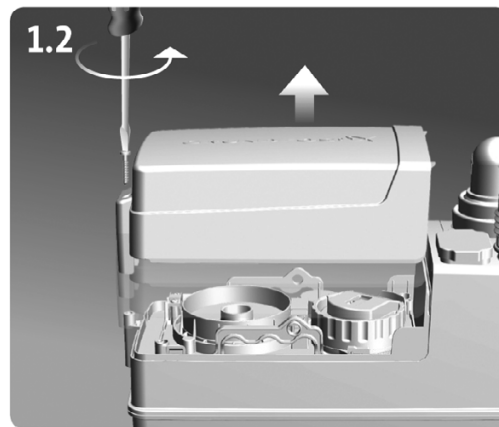
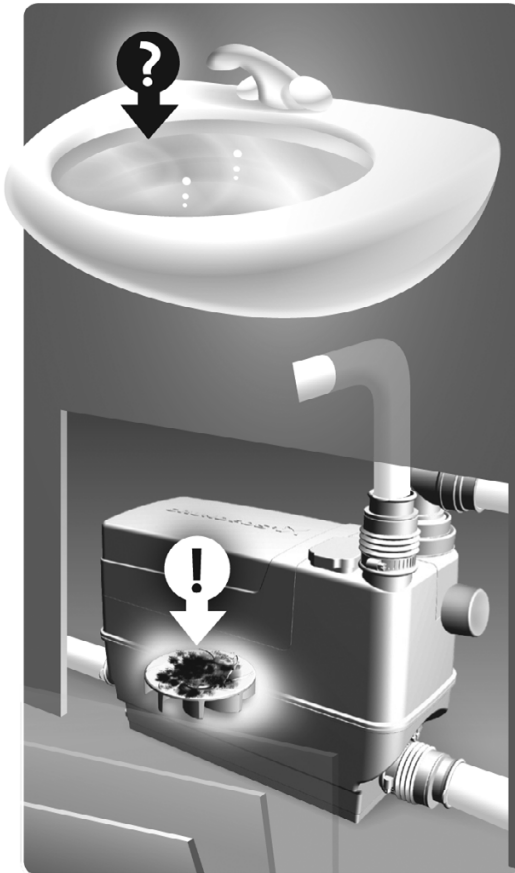
Fault	Cause	Remedy
8. Water from shower or another appliance connected to the lower inlets drains off slowly. Backflow from the lifting station.	a) Hydraulics blocked.	Check that the motor shaft can rotate freely. Remove the motor flange to clean the impeller.
	b) The start level has changed.	Check and clean the float switch pipe.
	c) Inlet pipe diameter is too small.	Use a pipe with a larger diameter.

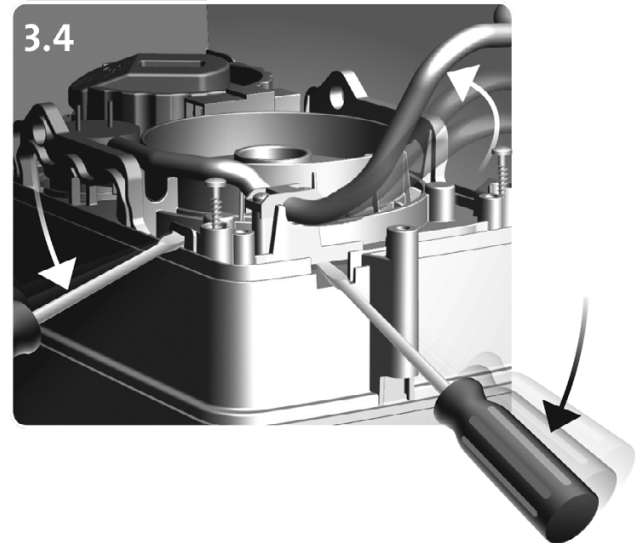
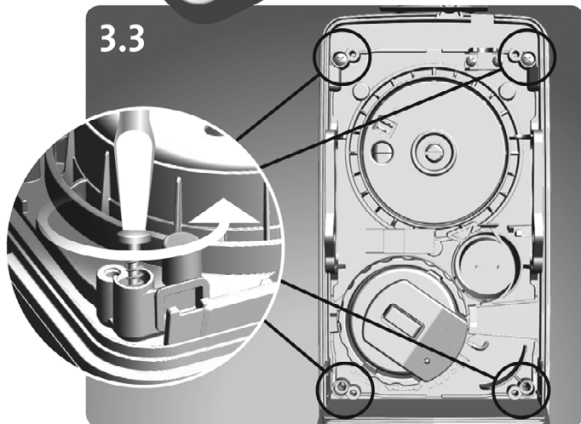
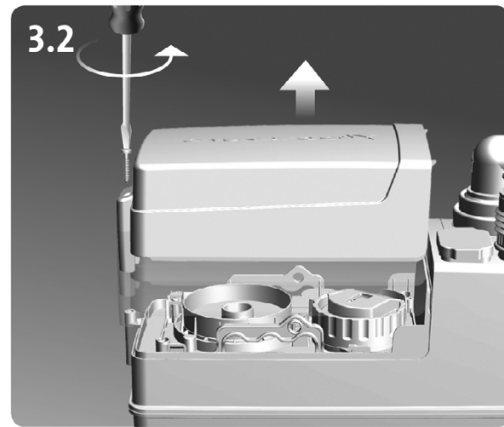
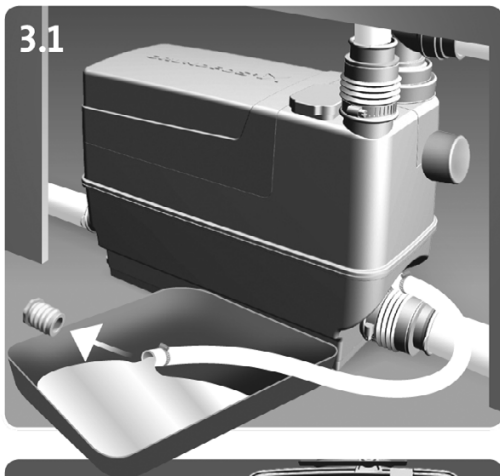
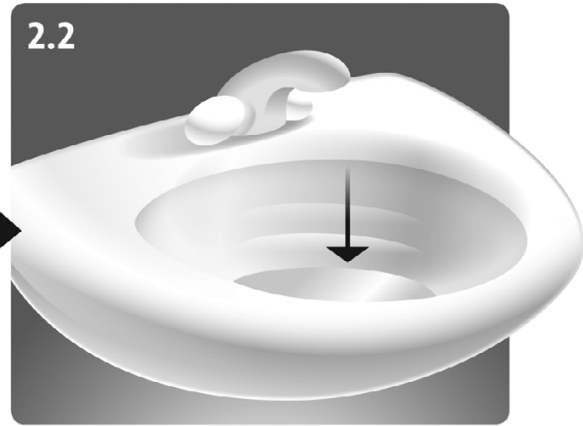
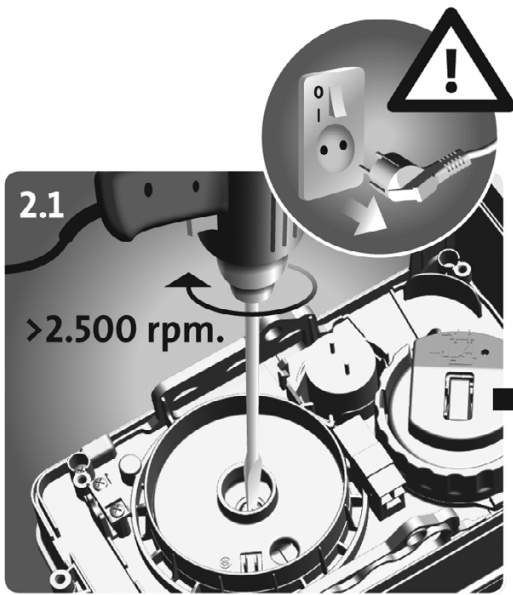
10. Disposal

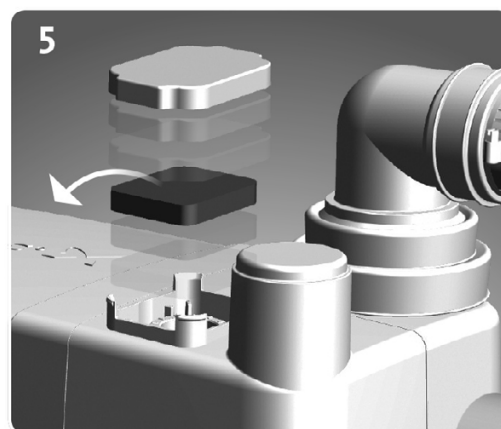
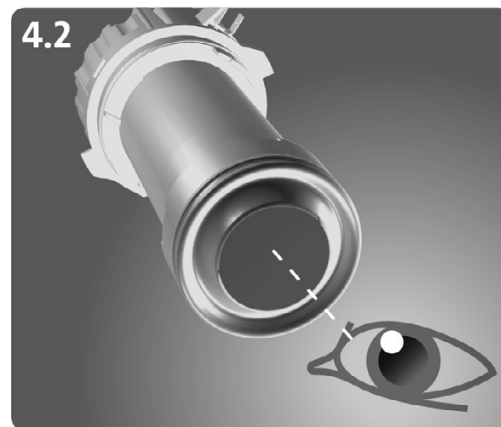
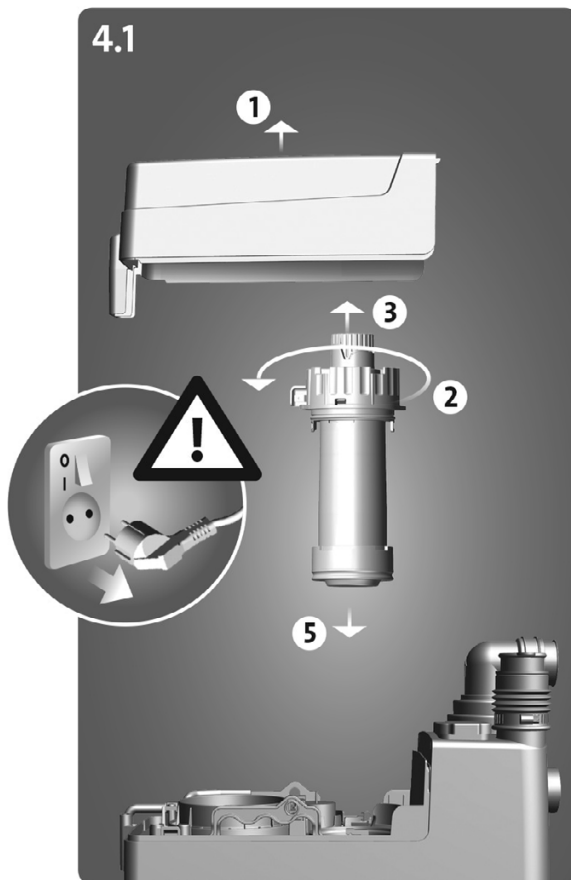
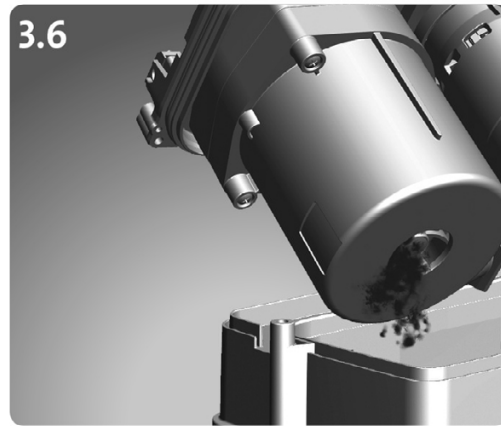
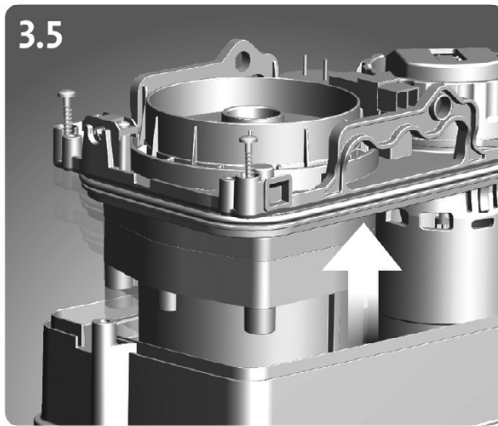
This product or parts of it must be disposed of in an environmentally sound way:

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

Subject to alterations.







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

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

- Low Voltage Directive (2014/35/EU).
Standards used:
EN60335-1: 2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 + A13:2008
EN 60335-2-41:2003 + A1:2004 + A2:2010
EN 62233:2008
- EMC Directive (2014/30/EU).
Standards used:
EN 61000-3-2:2006 + A1:2009 + A2:2009
EN 61000-3-3:2008
EN 55014-2:1997 + A1:2001 + A2:2008
EN 55014-1:2006 + A1:2009

This EU declaration of conformity is only valid when published as part of the Grundfos safety instructions (publication number 98661661 0516).

Bjerringbro, 30/3/2016



Svend Aage Kaas
Director

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)

AR:

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

1. Unique identification code of the product type:
– EN 12050-2.
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):
– Sololift2 C-3 lifting stations marked with EN 12050-2 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 faecal-free wastewater marked with EN 12050-2 on the nameplate.
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 12050-2 under system 3. (description of the third party tasks as set out in Annex V)
– Certificate number:
LGA-Certificate No 7313131. 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 12050-2:2000.
10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

1. رمز التعريف الفريد لنوع المنتج:
– EN 12050-2.
2. النوع أو رقم التشغيل أو الرقم المسلسل أو أي عنصر آخر يتيح (تعريف هوية المنتج وفقاً لمطلب المادة 11 (4):
– محطات الرفع Sololift2 C-3 يكون معيارها EN 12050-2 بلوحة اسم الموديل.
3. غرض استخدام أو استخدامات منتج التشييد، وفقاً للمواصفة التقنية المتوافقة المعمول بها، كما تتوقعها الجهة المصنعة:
– محطات الرفع لضخ مياه الصرف الخالية من المادة البرازية يكون معيارها EN 12050-2 بلوحة اسم الموديل.
4. الاسم والاسم التجاري المسجل أو العلامة التجارية المسجلة وعنوان (الاتصال بالجهة المصنعة كما يجب وفقاً للمادة 11 (5):
Grundfos Holding A/S –
Poul Due Jensens Vej 7
Bjerringbro 8850
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 12050-2 بمقتضى النظام 3. (وصف مهام الطرف الثالث كما هو موضح في الملحق 5).
– رقم الشهادة:
شهادة 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 12050-2:2000.
10. يكون أداء المنتج المحدد في النقطتين 1 و 2 مطابقاً للأداء 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 12050-2.
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 C-3 en cuya placa de características figure la norma EN 12050-2.
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 12050-2.
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 12050-2 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 12050-2:2000.
10. Las prestaciones del producto indicado en los puntos 1 y 2 cumplen lo declarado en el punto 9.

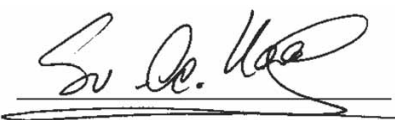
PT:

**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 12050-2.
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 C-3 com a indicação EN 12050-2 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 12050-2 na chapa de características.
4. Nome, nome comercial registado ou marca registada 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 12050-2 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 12050-2:2000.
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: 98661661.

Bjerringbro, 15th May 2013



Svend Aage Kaas
Technical Director
Grundfos Holding A/S
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8850 Bjerringbro, Denmark

Argentina

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Belgium

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Belarus

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