

# Sololift2 C-3

Installation and operating instructions



Other languages



Sololift2 C-3  
<http://net.grundfos.com/qr/i/97771617>

be  
think  
innovate

**GRUNDFOS** 

# English (GB) Installation and operating instructions

## Original installation and operating instructions

These installation and operating instructions describe Grundfos Sololift C-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 Symbols used in this document

#### 1.1.1 Warnings against hazards involving risk of death or personal injury



#### 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.

#### 1.1.2 Other important notes



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



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.



Tips and advice that make the work easier.

## 2. Receiving the product

### 2.1 Transporting the product

#### WARNING



#### Crushing hazard

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

## 3. 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.

### 3.1 Mechanical installation

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.

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.

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 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.

## 3.2 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.

## 4. Product introduction

### 4.1 Product 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.

### 4.2 Intended use

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



The product is only suitable for domestic use.



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

### 4.3 Pumped liquids

Grey wastewater up to 90 °C.

Brine from water softeners with a maximum temperature of 20 °C and maximum 15 % of salt.

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



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

## 5. 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](http://www.product-selection.grundfos.com).



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

### 5.1 Service documentation

Service documentation is available at [www.product-selection.grundfos.com](http://www.product-selection.grundfos.com).

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

### 5.2 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.

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 or fat.

Change the carbon filter once a year. See section [5.3 Service instructions](#).

### 5.3 Service instructions

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

#### CAUTION



##### Hot surface

Minor or moderate personal injury  
- Wear protective gloves or wait until the surface of the pump has cooled down.

#### 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

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 the 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 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 impeller, the protecting tube of the float switch and the tank.  
Check that the float switch works properly before fitting the cover.

#### Float switch pipe blocked

The float 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. See image 3.1 in the appendix.
2. 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.
3. Clean the float switch pipe.  
Check that the float switch works properly before fitting the cover.
4. Lubricate the O-ring seat of the float switch in the motor flange for easier fitting.

#### 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.

## 6. 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 [5.3 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 is stuck. The thermal switch has tripped.	Free the impeller, and wait until the motor is cooled down and the thermal switch has reset.
	d) The float switch is stuck.	Remove the float switch and clean the pipe.
2. The motor hums but does not operate.	a) The impeller is stuck.	Free the impeller and check that it can rotate freely.
	b) The motor or capacitor is defective.	Replace the motor or capacitor.
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 float switch is defective or stuck.	Clean the float switch unit or replace it, if necessary.
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 (maximum 40 mm). 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 are 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) A foreign body is hitting the impeller.	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 hydraulics are 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) The inlet pipe diameter is too small.	Use a pipe with a larger diameter.

## 7. Technical data

### Supply voltage

1 x 220-240 V - 10 %/+ 6 %, 50 Hz.

### Power consumption

640 W.

### Power factor

$\cos \varphi$  0.66 / 0.90.

### Speed

2800 min<sup>-1</sup>.

### Rated current

3.1 A.

### Insulation class

F.

### Noise level

< 70 dB(A) to 12050-2.

### Flow rate

Maximum 204 l/min.

### System pressure

Maximum pump head: 8.0 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

1.2 m, 0.75 mm<sup>2</sup> (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 minutes).

Brine from a water softener: maximum 20 °C.

### Brine

Maximum 15 % of salt.

### Ambient temperature

+5 °C to +35 °C.

### Duty

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

### Marking



### Approvals



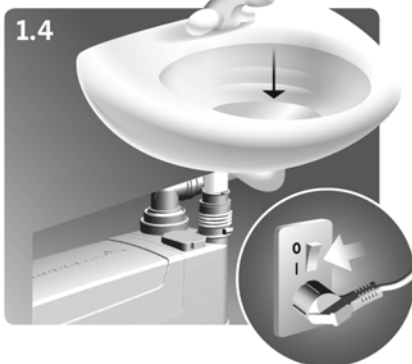
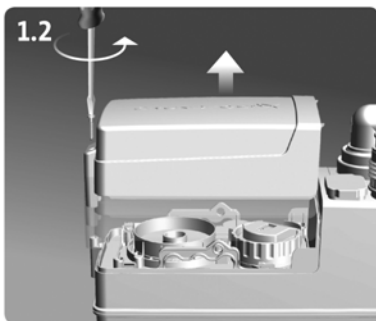
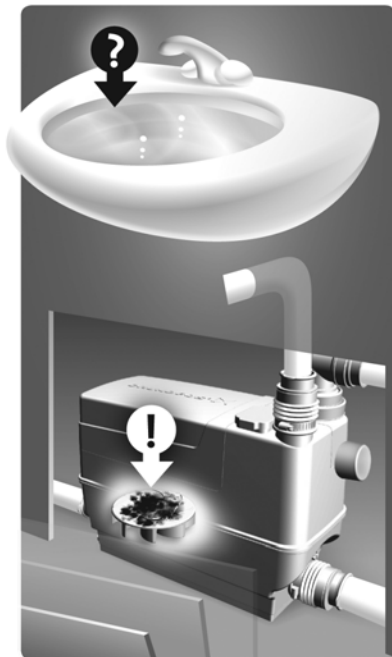
## 8. Disposal of the product

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

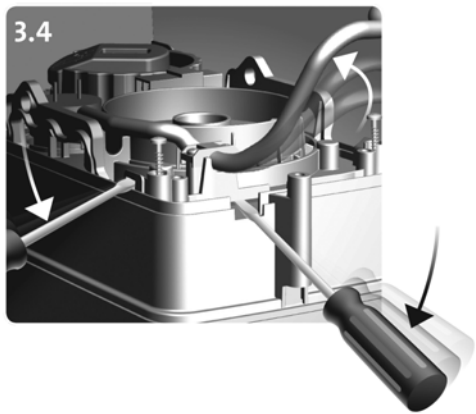
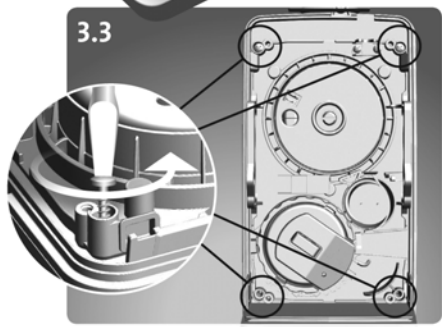
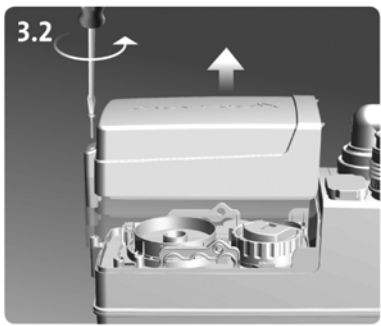
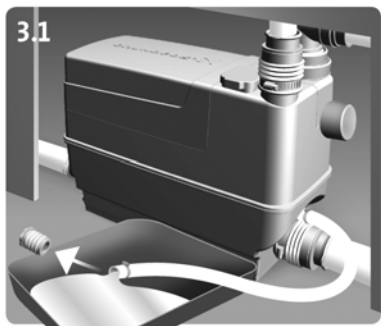
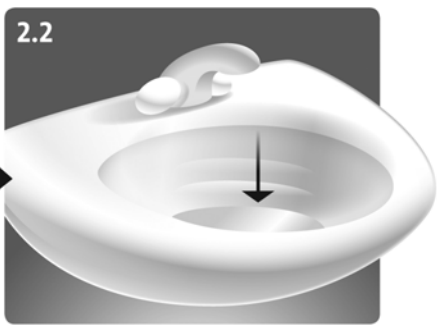
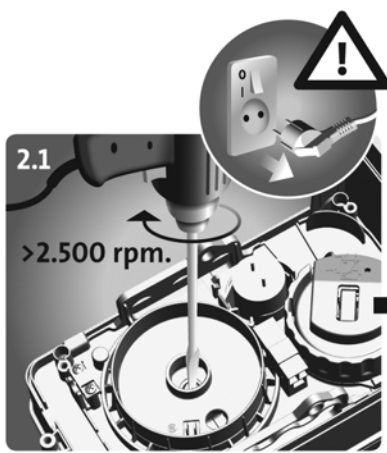
1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

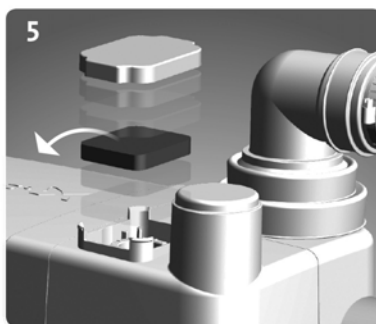
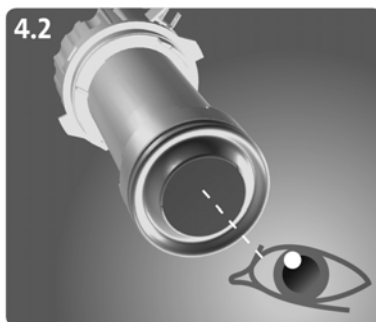
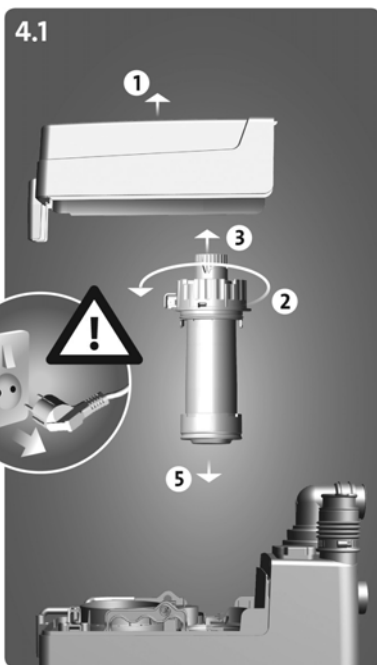
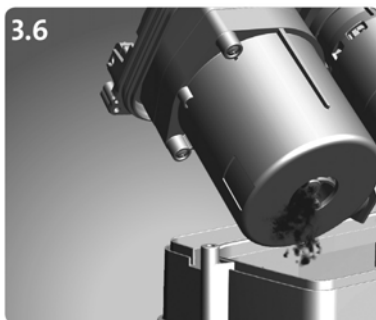
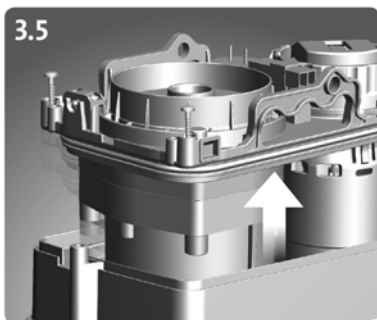


The crossed-out wheellie bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol reaches its end of life, take it to a collection point designated by the local waste disposal authorities. The separate collection and recycling of such products will help protect the environment and human health.











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