Sololift2

Small lifting stations 50 Hz





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WinCAPS

1. Product overview

Sololift2 for toilet applications

Sololift2 WC-1	Description	Technical data
	Suitable for pumping wastewater from a toilet or washbasin. Features: • robust design for safe and trouble-free operation with high-performance pump and professional cutter • ready to install • quick and easy installation • service-friendly design with dry motor unit • easy replacement using flexible connectors and adapters for discharge and inlets.	Q _{max} : 149 l/min. Power consumption, P1: Max. 620 W. Discharge connection: • Ø22/25/28/32/36/40. Additional inlet: • 1 Ø32/36/40 at the top.

Sololift2 WC-3 Description **Technical data** H_{max.}: 8.5 m. Suitable for pumping wastewater from a toilet, washbasin, Q_{max}.: 149 l/min. Power consumption, P1: Max. 620 W. cabinet shower and a bidet or urinal. Features: robust design for safe and trouble-free operation with high-performance pump and professional cutter
ready to install Discharge connection: • Ø22/25/28/32/36/40. Additional inlet: FM04 9729 5010 1 & 32/36/40 at the top. 2 & 36/40/50 on the left and right sides of the : quick and easy installation . service-friendly design with dry motor unit easy replacement using flexible connectors and adapters tank. for discharge and inlets.

Sololift2 CWC-3	Description	Technical data
	Suitable for pumping wastewater from a wall-hung toilet, washbasin, cabinet shower and a bidet or urinal. Features: • slim design for front-wall installation • robust design for safe and trouble-free operation with high-performance pump and professional cutter • quick and easy installation • service-friendly design with dry motor unit • easy replacement using flexible connectors and adapters for discharge and inlets.	 H_{max}: 8.5 m. Q_{max}: 149 l/min. Power consumption, P1: Max. 620 W. Discharge connection: Ø22/25/28/32/36/40. Additional inlet: 1 Ø32/36/40 at the top. 2 Ø36/40/50 on the left and right sides of the tank.

Sololift2 for grey wastewater applications

Sololift2 C-3	Description	Technical data
	Suitable for pumping grey wastewater from a washing machine, dishwasher, bathtub, cabinet shower, washbasin or kitchen sink. Features: • slim design for front-wall installation • high-performance pump with 20 mm free passage for handling effluents up to 90 °C • ready to install • quick and easy installation • service-friendly design with dry motor unit • easy replacement using flexible connectors and adapters for discharge and inlets.	 H_{max.}: 8.8 m. Q_{max}: 185 l/min. Power consumption, P1: Max. 640 W. Discharge connection: Ø22/25/28/32/36/40. Additional inlet: 1 Ø32/36/40 at the top. 2 Ø36/40/50 on the left and right sides of the tank.

Sololift2 D-2	Description	Technical data
	 Extremely compact variant for pumping grey wastewater from a washbasin, cabinet shower or bidet. Features: design for front-wall installation or installation in a cabinet robust design for safe and trouble-free operation with high-performance pump with 10 mm free passage ready to install built-in non-return flap valve, venting valve with carbon filter and overflow protection quick and easy installation service-friendly design with dry motor unit. 	H _{max} : 5.5 m. Q _{max} : 105 l/min. Power consumption, P1: Max. 280 W. Discharge connection: • Ø22/32. Additional inlet: • 2 Ø36/40/50 on the left and right sides of the tank.

GRUNDFOS X 3

Applications

For installations above sewer level, it is recommended to lead wastewater directly to the sewer by means of natural slope. In some cases, this is not possible or the cost of doing so bears no proportion to the benefit. Especially when it comes to renovation and modernisation, it may be difficult to establish a downward slope.

Any sanitary unit positioned below sewer level (backflow level) or far away from the main soil pipe can easily be drained by a Sololift2.

The Sololift2 is suitable for pumping wastewater off places in private dwellings where it cannot be led directly to the main sewer by means of natural downward slope. The use of Sololift2 facilitates the installation of toilets, cabinet showers, washbasins or other facilities at basement, ground or loft level as it pumps the wastewater to the main soil pipe.

Sololift2 offers the opportunity of installing facilities such as cabinet showers and toilets at a distance from the main soil pipe without costly pipe installations. Sololift2 can be used for the following:

- extra bathrooms in basements or attics
- basement installations of sanitary units below sewer ٠ level and also as excellent backflow protection from the main sewer
- low-cost bathrooms in holiday cottages •
- added facilities in hotels and guest houses
- bathrooms for the elderly or the disabled
- renovation or modernisation of rest rooms in offices and other commercial buildings for a limited number of users according to EN 12050-3 (Sololift2 WC-1, WC-3, CWC-3) and EN 12050-2 (Sololift2 C-3, D-2).

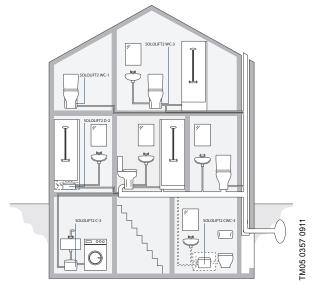


Fig. 1 Examples of application

Functions

Wastewater from the units connected is led to the Sololift2 lifting station. The pump starts automatically when the liquid level reaches the start level and stops when the level has fallen to the stop level. The start and stop levels depend on the type of Sololift2. See technical data of the individual types.

The tank of all Grundfos Sololift2 lifting stations is made of composite with an easy-to-clean surface and inside chamfers to minimise sedimentation.

Installed correctly, the Sololift2 works automatically. For higher safety requirements, alarm devices are available. See section Accessories for the individual type.

The design offers unique features and is focused on quick installation as well as easy and clean service. The lifting stations require very little maintenance. We recommend to check the tank regularly, depending on application and how frequently it is used.

Grundfos' high quality requirements ensure high robustness and long and trouble-free operation. The production is inspected by an external institute according to EN 12050-2/-3.

The individual Sololift2 lifting stations are described on these pages:

Sololift2 WC-1, page 5. Sololift2 WC-3, page 10. Sololift2 CWC-3, page 16.

Sololift2 C-3, page 21.

Sololift2 D-2, page 28.

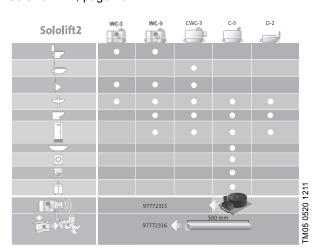


Fig. 2 Overview of Sololift2 lifting stations

Sololift2 WC-1

2. Sololift2 WC-1

Sololift2 WC-1 is a small, compact, ready-to-install automatic lifting station with integrated professional cutter system. It is suitable for pumping wastewater with faeces off places in private dwellings.

The unit is designed according to EN 12050-3.



Fig. 3 Sololift2 WC-1

Applications

Sololift2 WC-1 is suitable for pumping wastewater from a washbasin or a single toilet (with horizontal outlet according to EN 33/37) containing toilet paper and faeces.

Typical applications:

- · Basement installations below sewer level.
- In connection with the renovation or modernisation of existing buildings where the location may be remote from the main soil pipe so that a natural slope cannot be established, for example attics.



Fig. 4 Example of application

Features and benefits

Robustness and operational reliability

 The powerful motor ensures optimum operational reliability, even when for instance feminine hygiene products are occasionally flushed down the toilet.

Easy installation and replacement

• Adjustable discharge and inlet connections ensure easy installation and replacement.

Easy maintenance and service

- The removable, compact pump-motor unit makes any service job a fast and clean matter.
- No need to disconnect discharge and inlet pipes or to remove the unit from behind the toilet.

Sizing guide

FM05 0866 1711

TM05 0358 0911

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

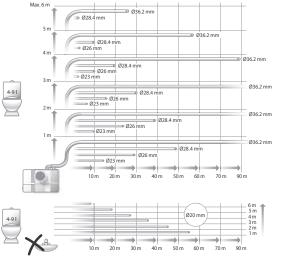


Fig. 5 Maximum lengths of vertical and horizontal discharge pipes

Figure 5 shows the maximum lengths of vertical and horizontal discharge pipes. The pipe length depends on the pipe diameter and is based on a flow velocity of 0.7 m/s. Four bends, a non-return valve and an isolating valve have already been taken into account.

FM05 0360 091

Sololift2 WC-1	0	Descri	ption
		Pos.	Operational reliability
	_	1	Cutter Professional cutter, which easily handles feminine hygiene products or similar, increases the reliability. Pump with self-venting valve for stable start.
	_	2	Motor Powerful motor with special winding for high torque and motor protection by thermal switch with automatic restart. Three shaft seals and an additional V-ring ensure long operational life.
	_	3	Venting valve Venting valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
	FM05 0371 0911	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
	₽_	Pos.	Easy maintenance and service
16		5	Access to components Design with dry motor for easy and clean service.
113		6	Compact block unit Pump, motor and controller form a compact block unit which is easy to remove for service and replacement. No need to disconnect the Sololift2 tank and connected pipes when service is required.
		7	Auto coupling Self-adjusting auto coupling eases assembly.
-4		8	Screws All important screws are captive screws, which facilitates service work.
10	_	9	Anti-blocking Manual anti-blocking function is accessible from outside with a screwdriver, i.e. no need to remove the cover. Remove a plug on top of the cover, insert the screwdriver, and turn the shaft.
-	1 0911	10	Drain connection Separate tank drain function is available by connecting a drain hose.
15	TM05 0371	11	Pressure switch Pressure switch control outside the tank, i.e. no moving parts and diaphragm in the wastewater.
		Pos.	Easy installation and replacement
		12	Dimensions Very compact dimensions. The position of discharge and inlet connections ensures easy replacement of Sololift+ and similar units of other makes. No extra work on pipes required.
5 and 6		13	Inlet Inlet connection at the top.
	_	14	Discharge A turnable 360 ° adapter incorporating a non-return valve enables vertica or horizontal discharge direction for easy replacement.
8		15	Feet for floor-mounting Feet for floor-mounting are easy to install.
	TM05 0496 1111	16	Alarm Slot for an alarm device. Easy retrofitting just by pushing a small printed circuit board with buzzer into the slot. No additional wires required.

Sololift2

Visit the animation of Sololift2 features on www.grundfos.com or local Grundfos homepages.

Installation requirements

This section shows an installation example and describes the installation requirements. Installation is done quickly and easily by using flexible hose connectors with several adapter options for almost any pipe diameter.

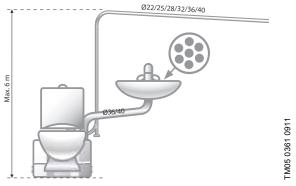


Fig. 6 Example of installation

Note: The first part of the discharge pipe should always be vertical. All horizontal pipes must have a fall of minimum 1 % to the main soil pipe.

The measurements in fig. 7 must be observed.

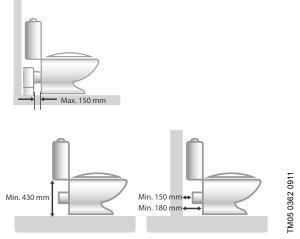


Fig. 7 Measurements to be observed

The Sololift2 WC-1 must be installed directly behind the toilet and in the same room according to EN 12050-3. When a connecting piece is required, the maximum distance to the toilet must not exceed 150 mm.

Observe the minimum height and distances in fig. 7 to ensure that the unit is accessible for service.

Connections



Fig. 8 Horizontal or vertical discharge

The turnable 360 $^\circ$ discharge adapter can be fitted horizontally or vertically. The adapter incorporates a non-return valve.

The discharge and inlet connections can be adapted to the following pipe diameters:

Connection			Out	er diam	neter		
Connection	Ø22	Ø25	Ø28	Ø32	Ø36 ¹⁾	Ø40	Ø50
Discharge	•	٠	٠	٠	(•)	٠	-
Inlet at the top	-	-	-	٠	(•)	٠	-

 Two adapters included for UK version. Also available as accessories.

Product numbers

Product	Plug	Sales region	Prod. no.
Sololift2 WC-1	Schuko	Europe	97775314
	Schuko	Russia	97775319
	AUS	Australia	97775324
_	No plug	UK	97775329

Accessories

Product	Description	Prod. no.
Alarm device	Acoustic alarm in case of malfunction. Printed-circuit board to be pushed into an internal slot in Sololift2 WC-1.	97772315
Replacement hose	Flexible PVC hose with two clamps and an adapter to the Gischarge of the Sololift2. Dimensions: • Length: 500 mm. • Inner diameter: Ø32. • Outer diameter: Ø38.	97772316
Drain hose	Flexible PVC hose with two clamps and a plug. Applicable when the tank of the Sololift2 is to be drained for service. Dimensions: • Length: 500 mm. • Inner diameter: Ø12. • Outer diameter: Ø14.4.	97789093
Adapter ring, Ø36	Kit, adapter Ø36 UK Suitable for discharge and inlet connections. Note: The adapter is included in the UK version.	97775336

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TM04 9877 0211

Technical data

Mechanical data

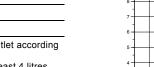
Net weight	7.3 kg
Tank volume	9.0 litres
Flexible discharge elbow	Ø22/25/28/32/36/40
Toilet connection	Toilet with horizontal outlet according to EN 33 or EN 37. The toilet must use at least 4 litres per flush.
Dimensions of possible inlet	1 x Ø32/36/40
Start and stop levels	Start: 72 mm above floor level Stop: 52 mm above floor level
pH value of the pumped liquid	4 to 10
Maximum liquid temperature	50 °C
Ambient temperature	+5 °C to +35 °C
Duty class	S3-50 % - 1 min. (30 sec. on; 30 sec. off)

Electrical data

Supply voltage	1 x 220-240 V - 10 %/+ 6 %, 50 Hz
Power consumption, P1	Max. 620 W
Rated current	3.0 A
Power factor, cos φ	0.87/0.92
Speed	2800 min ⁻¹
Enclosure class	IP44
Insulation class	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)

Dimensions

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Performance

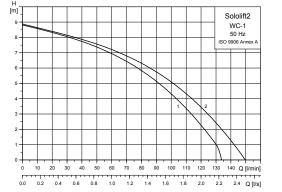
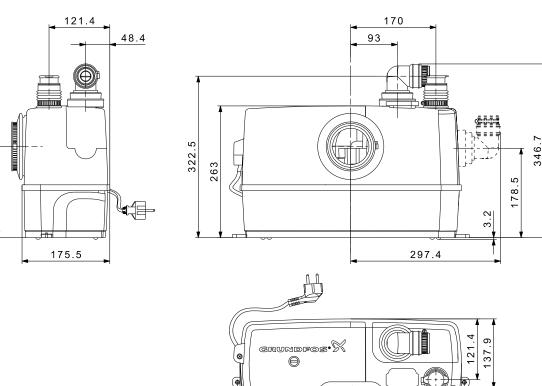


Fig. 9 Performance curves, Sololift2 WC-1

Legend

Pos.	Description
1	Horizontal outlet
2	Vertical outlet



85.8 441.8 452.5

TM04 9914 0311

Fig. 10 Dimensional drawings, Sololift2 WC-1

Sololift2 WC-1

Marking and approvals

Description

The Sololift2 units are CE-marked and have obtained the following approvals:

VDE

- VDEEMV
- EMV • TÜV/LGA
- GOST (AR56).

Marking



Approvals



Design and scope of delivery

The Sololift2 WC-1 is supplied with a tank made of wastewater-resistant composite with inspection cover. Features:

- DN 100 connecting piece with flexible hose to the toilet.
- Additional inlet connecting piece at the top for pipes of Ø32 and Ø40 (Ø36 for UK version).
- Venting valve with carbon filter, overflow protection and integrated adapter for a Ø20 vent pipe.
- Inner pipework with auto coupling to the pumpmotor unit.
- One pump-motor unit fixed to the tank with four captive screws. The pump discharge to the inner pipework of the tank is fixed to the auto coupling from the inner pipework of the tank.
- 1.2 m cable and plug. See Technical data, page 8.
- Flexible adapter hose for inlet pipes of Ø32 and Ø40 (Ø36 for UK version).
- Feet for floor-mounting including screws and expansion anchors.
- Non-return valve.
- Discharge adapters from Ø22 to Ø40 (plus Ø36 for UK version).

3. Sololift2 WC-3

Sololift2 WC-3 is a small, compact, ready-to-install automatic lifting station with integrated professional cutter system. It is suitable for pumping wastewater with faeces off places in private dwellings.

The unit is designed according to EN 12050-3.



Fig. 11 Sololift2 WC-3

Applications

Sololift2 WC-3 is suitable for pumping wastewater from a single toilet (with horizontal outlet according to EN 33/37) containing toilet paper and faeces, a washbasin, cabinet shower and a bidet or urinal.

Typical applications:

- · Basement installations below sewer level.
- In connection with the renovation or modernisation of existing buildings where the location may be remote from the main soil pipe so that a natural slope cannot be established, for example attics.



Fig. 12 Example of application

Features and benefits

Robustness and operational reliability

 The powerful motor ensures optimum operational reliability, even when for instance feminine hygiene products are occasionally flushed down the toilet.

Easy installation and replacement

• Adjustable discharge and inlet connections ensure easy installation and replacement.

Easy maintenance and service

- The removable, compact pump-motor unit makes any service job a fast and clean matter.
- No need to disconnect discharge and inlet pipes or to remove the unit from behind the toilet.

Sizing guide

FM04 9729 5010

FM05 0372 0911

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

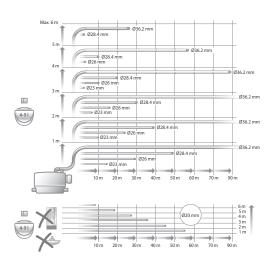


Fig. 13 Maximum lengths of vertical and horizontal discharge pipes

Figure 13 shows the maximum lengths of vertical and horizontal discharge pipes. The pipe length depends on the pipe diameter and is based on a flow velocity of 0.7 m/s. Four bends, a non-return valve and an isolating valve have already been taken into account.

Construction features

Sololift2 WC-3	Descri	Description		
	Pos.	Operational reliability		
	1	Cutter Professional cutter, which easily handles feminine hygiene products or similar, increases the reliability. Pump with self-venting valve for stable start.		
ABOILAS	2	Motor Powerful motor with special winding for high torque and motor protection by thermal switch with automatic restart. Three shaft seals and an additional V-ring ensure long operational life.		
	3	Venting valve Venting valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.		
14 — 14	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.		
	TM05 0480 1111	Non-return flap valves Non-return flap valves prevent back- and cross-flow to inlet pipes.		
	Pos.	Easy maintenance and service		
15	6	Access to components Design with dry motor for easy and clean service.		
	7	Compact block unit Pump, motor and controller form a compact block unit which is easy to remove for service and replacement. No need to disconnect the Sololift2 tank and connected pipes when service is required.		
12	8	Auto coupling Self-adjusting auto coupling eases assembly.		
	9	Screws All important screws are captive screws, which facilitates service work.		
11	10	Anti-blocking Manual anti-blocking function is accessible from outside with a screwdriver, i.e. no need to remove the cover. Remove a plug on top of the cover, insert the screwdriver, and turn the shaft.		
5	11 Ę	Drain connection Separate tank drain function is available by connecting a drain hose.		
14 16	TM05 0507 1111 51	Pressure switch Pressure switch control outside the tank, i.e. no moving parts and diaphragm in the wastewater.		
	Pos.	Easy installation and replacement		
	13	Dimensions Very compact dimensions. The position of discharge and inlet connections ensures easy replacement of Sololift+ and similar units of other makes. No extra work on pipes required.		
6 and 7	14	Inlet Eccentric, height-adjustable connectors for side inlets, i.e. in addition to the inlet at the top of the tank.		
	15	Discharge A turnable 360 ° adapter incorporating a non-return valve enables vertica or horizontal discharge direction for easy replacement.		
9	16	Feet for floor-mounting Feet for floor-mounting are easy to install.		
	TM05 0506 1111	Alarm Slot for an alarm device. Easy retrofitting just by pushing a small printed- circuit board with buzzer into the slot. No additional wires required.		

Visit the animation of Sololift2 features on www.grundfos.com or local Grundfos homepages.

3

FM05 0363 0911

Installation requirements

This section shows an installation example and describes the installation requirements. Installation is done quickly and easily by using flexible hose connectors with several adapter options for almost any pipe diameter.

The start/stop levels are made for the modern flat shower trays.

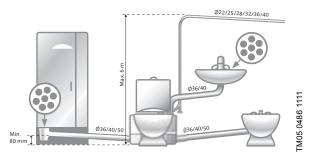


Fig. 14 Example of installation

Note: The first part of the discharge pipe should preferably be vertical. All horizontal pipes must have a fall of minimum 1 % to the main soil pipe.

The measurements in fig. 15 must be observed.

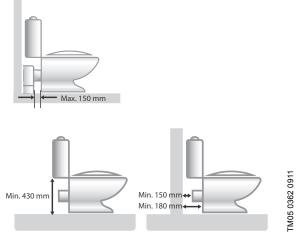


Fig. 15 Measurements to be observed

The Sololift2 WC-3 must be installed directly behind the toilet and in the same room according to EN 12050-3. When a connecting piece is required, the maximum distance to the toilet must not exceed 150 mm.

Observe the minimum height and distances in fig. 15 to ensure that the unit is accessible for service.

Connections



Fig. 16 Horizontal or vertical discharge

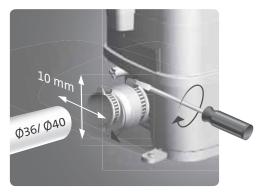
The turnable 360 $^\circ$ discharge adapter can be fitted horizontally or vertically. The adapter incorporates a non-return valve.

The discharge and inlet connections can be adapted to the following pipe diameters:

Ormeretien			Ou	iter dia	meter		
Connection	Ø22	Ø25	Ø28	Ø32	Ø36 ¹⁾	Ø40	Ø50
Discharge	٠	٠	٠	٠	(•)	٠	-
Inlet at the top	-	-	-	٠	(•)	٠	-
Inlet from side ²⁾	-	-	-	-	(•)	•	٠

 Two adapters included for UK version. Also available as accessories.
 One connector is included. Further connectors available

⁾ One connector is included. Further connectors available as accessories.



TM05 0487 1111

Fig. 17 Height and side alignment possible when using Ø36/40 inlet pipes

Product numbers

Product	Plug	Sales region	Prod. no.
Sololift2 WC-3	Schuko	Europe	97775315
	Schuko	Russia	97775320
	AUS	Australia	97775325
	No plug	UK	97775330

Accessories

Product	Description	Prod. no.
Alarm device	Acoustic alarm in case of malfunction. Printed-circuit board to be pushed into an internal slot in Sololift2 WC-3.	97772315
Replacement hose	Flexible PVC hose with two clamps and an adapter to the 11 discharge of the 12 Sololift2. 12 Dimensions: 12 Length: 500 mm. 13 Solore - Length: 500 mm. 13 Solore - Length: 500 mm. 14 Solore - Length: 500 mm. 15 Solore - Length	
Drain hose	Flexible PVC hose with two clamps and a plug. Applicable when the tank of the Soldift2 is to be drained for service. Dimensions: • Length: 500 mm. • Inner diameter: Ø12 • Outer diameter: Ø14.4.)
Adapter kit, inlet	Kit, second inlet Ø50/50/40	97775335
Adapter ring, Ø36	Kit, adapter Ø36 UK	97775336
Ø36	Suitable for discharge and inlet connections. Note: The adapter is included in the UK version.	

Sololift2 WC-3

Technical data

Mechanical data

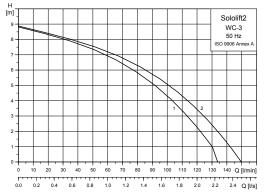
Net weight	7.3 kg
Tank volume	9.0 litres
Flexible discharge elbow	Ø22/25/28/32/36/40
Toilet connection	Toilet with horizontal outlet according to EN 33 or EN 37. The toilet must use at least 4 litres per flush.
Dimensions of possible inlet	1 x Ø32/36/40 2 x Ø36/40/50 in the side
Start and stop levels	Start: 72 mm above floor level Stop: 52 mm above floor level
pH value of the pumped liquid	4 to 10
Maximum liquid temperature	50 °C
Ambient temperature	+5 °C to +35 °C
Duty class	S3-50 % - 1 min. (30 sec. on; 30 sec. off)

Electrical data

1 x 220-240 V - 10 %/+ 6 %, 50 Hz Max. 620 W 3.0 A 0.87/0.92
3.0 A
0.87/0.92
2800 min ⁻¹
IP44
F
1.2 m, 0.75 mm ² (H05VV-F-3G)

Dimensions



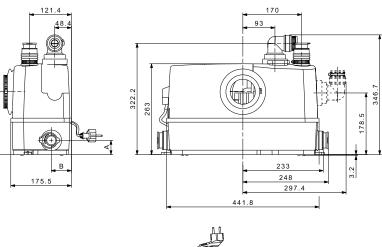


TM04 9877 0211

Fig. 18 Performance curves, Sololift2 WC-3

Legend

Pos.	Description
1	Horizontal outlet
2	Vertical outlet



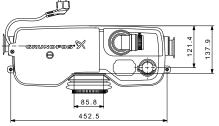


Fig. 19 Dimensional drawings, Sololift2 WC-3

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Pine diameter	Tuno	Α [[mm]	B	[mm]
Pipe diameter	Туре	Min.	Max.	Min.	Max.
Ø36/40	Eccentric	36	46	53	63
Ø50	Centric		41		58

TM04 9916 0311

Sololift2 WC-3

Marking and approvals

Description

The Sololift2 units are CE-marked and have obtained the following approvals:

VDE

- VDEEMV
- EMV • TÜV/LGA
- GOST (AR56).

Marking



Approvals



Design and scope of delivery

The Sololift2 WC-3 is supplied with a tank made of wastewater-resistant composite with inspection cover. Features:

- DN 100 connecting piece with flexible hose to the toilet.
- Additional inlet connecting piece at the top for pipes of Ø32 and Ø40 (Ø36 for UK version).
- Two additional side inlet connections. One connector with clamps is included (2 x Ø36 inserts for discharge and inlet are included in the UK version).
- Two side inlet connections with integrated backflow flap valves.
- Venting valve with carbon filter, overflow protection and integrated adapter for a Ø20 vent pipe.
- Inner pipework with auto coupling to the pumpmotor unit.
- One pump-motor unit fixed to the tank with four captive screws. The pump discharge to the inner pipework of the tank is fixed to the auto coupling from the inner pipework of the tank.
- 1.2 m cable and plug. See Technical data, page 14.
- Flexible adapter hose for inlet pipes of Ø32 and Ø40 (Ø36 for UK version).
- Feet for floor-mounting including screws and expansion anchors.
- Non-return valve.
- Discharge adapters from Ø22 to Ø40 (plus Ø36 for UK version).

4. Sololift2 CWC-3

Sololift2 CWC-3 is a slim, compact, ready-to-install automatic lifting station with integrated professional cutter system. It is suitable for pumping wastewater with faeces off places in private dwellings.

The unit is designed according to EN 12050-3 and is specially designed for front-wall installations.



Fig. 20 Sololift2 CWC-3

Applications

Sololift2 CWC-3 is suitable for pumping wastewater from a single wall-hung toilet containing toilet paper and faeces, washbasin, cabinet shower and a bidet or urinal.

Typical applications:

- · Basement installations below sewer level.
- In connection with the renovation or modernisation of existing buildings where the location may be remote from the main soil pipe so that a natural slope cannot be established, for example attics.



Fig. 21 Example of application

Features and benefits

Robustness and operational reliability

 The powerful motor ensures optimum operational reliability, even when for instance feminine hygiene products are occasionally flushed down the toilet.

Easy installation and replacement

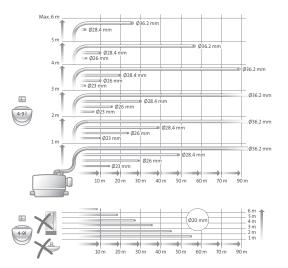
• Adjustable discharge and inlet connections ensure easy installation and replacement.

Easy maintenance and service

- The removable, compact pump-motor unit makes any service job a fast and clean matter.
- No need to disconnect discharge and inlet pipes or to remove the unit from behind the toilet.

Sizing guide

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



TM05 0383 0911

Fig. 22 Maximum lengths of vertical and horizontal discharge pipes

Figure 22 shows the maximum lengths of vertical and horizontal discharge pipes. The pipe length depends on the pipe diameter and is based on a flow velocity of 0.7 m/s. Four bends, a non-return valve and an isolating valve have already been taken into account.

Construction features

Sololift2 CWC-3	I	Descrij	ption
		Pos.	Operational reliability
		1	Cutter Professional cutter, which easily handles feminine hygiene products or similar, increases the reliability. Pump with self-venting valve for stable start.
	_	2	Motor Powerful motor with special winding for high torque and motor protection by thermal switch with automatic restart. Three shaft seals and an additional V-ring ensure long operational life.
		3	Venting valve Venting valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
- 15	1111	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
	TM05 0489 1111	5	Non-return flap valves Non-return flap valves prevent back- and cross-flow to inlet pipes.
	_	Pos.	Easy maintenance and service
3	_	6	Access to components Design with dry motor for easy and clean service.
	-	7	Compact block unit Pump, motor and controller form a compact block unit which is easy to remove for service and replacement. No need to disconnect the Sololift2 tank and connected pipes when service is required.
12	_	8	Auto coupling Self-adjusting auto coupling eases assembly.
	_	9	Screws All important screws are captive screws, which facilitates service work.
11		10	Anti-blocking Manual anti-blocking function is accessible from outside with a screwdriver, i.e. no need to remove the cover. Remove a plug on top of the cover, insert the screwdriver, and turn the shaft.
		11	Drain connection Separate tank drain function is available by connecting a drain hose.
4 5	TM05 0490 1111	12	Pressure switch Pressure switch control outside the tank, i.e. no moving parts and diaphragm in the wastewater.
	LM05 (13	Bottom Bottom design with strong chamfer to prevent sedimentation in corners.
	- -	Pos.	Easy installation and replacement
	_	14	Slim design Slim design for front-wall installation with a wall-hung toilet.
6 and 7	_	15	Inlet Eccentric, height-adjustable connectors for side inlets, i.e. in addition to the inlet at the top of the tank.
		16	Discharge Horizontal 360° turnable discharge incorporating a non-return valve.
9	_	17	Feet for floor-mounting Feet for floor-mounting are easy to install.
	; 1711		
17	TM05 0855 1711		

Visit the animation of Sololift2 features on www.grundfos.com or local Grundfos homepages.

Sololift2 CWC-3

GRUNDFOS X 17

Installation requirements

This section shows an installation example and describes the installation requirements. Installation is done quickly and easily by using flexible hose connectors with several adapter options for almost any pipe diameter.

The start/stop levels are made for the modern flat shower trays.

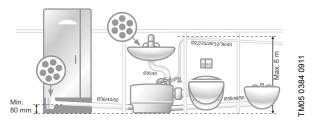


Fig. 23 Example of installation

Note: The first part of the discharge pipe should preferably be vertical. All horizontal pipes must have a fall of minimum 1 % to the main soil pipe.

The measurements in fig. 24 must be observed.

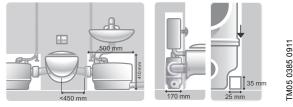


Fig. 24 Measurements to be observed

The Sololift2 CWC-3 must be installed as close as possible (< 450 mm) to the wall-hung toilet in a frontwall installation or similar according to EN 12050-3. Observe the minimum width of front wall and tile frame sizes in fig. 24 to ensure that the unit is accessible for service.

Connections

The turnable 360 ° discharge adapter can be fitted horizontally or vertically. The adapter incorporates a non-return valve.

The discharge and inlet connections can be adapted to the following pipe diameters:

0			Ou	ter dia	meter		
Connection	Ø22	Ø25	Ø28	Ø32	Ø36 ¹⁾	Ø40	Ø50
Discharge	٠	•	•	٠	(•)	•	-
Inlet at the top	-	-	-	-	(•)	•	-
Inlet from side ²⁾	-	-	-	-	(•)	•	•

¹⁾ Two adapters included for UK version. Also available as

 ²⁾ One connector is included. Further connectors available as accessories.

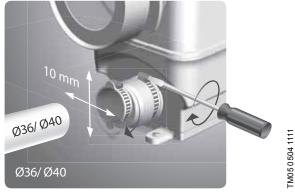


Fig. 25 Height and side alignment possible when using Ø36/40 inlet pipes

Product numbers

Product	Plug	Sales region	Prod. no.
Sololift2 CWC-3	Schuko	Europe	97775316
	Schuko	Russia	97775321
	AUS	Australia	97775326
	No plug	UK	97775331

Accessories

Product		Description	Prod. no.
Alarm device	TM05 0367 1111	Acoustic alarm in case of malfunction. Printed-circuit board to be pushed into an internal slot in Sololift2 CWC-3.	97772315
Replacement hose	TM05 0377 1111	Flexible PVC hose with two clamps and an adapter to the discharge of the Sololift2. Dimensions: • Length: 500 mm. • Inner diameter: Ø32. • Outer diameter: Ø38.	97772316
Adapter kit, inlet	TM05 0378 0911	Kit, second inlet Ø50/40/40	97775335
Adapter ring, Ø36	9 09 11	Kit, adapter Ø36 UK Suitable for discharge and inlet connections. Note: The adapter is included in the UK version.	97775336
	TM05 0379 0911		

Technical data

Mechanical data

Net weight	7.1 kg
Tank volume	9.0 litres
Flexible discharge elbow	Ø22/25/28/32/36/40
Toilet connection	Toilet with horizontal outlet according to EN 33 or EN 37. The toilet must use at least 4 litres per flush.
Dimensions of possible inlet	1 x \emptyset 32/36/40 from the top 2 x \emptyset 36/40/50 in the side
Start and stop levels	Start: 72 mm above floor level Stop: 52 mm above floor level
pH value of the pumped liquid	4 to 10
Maximum liquid temperature	50 °C
Ambient temperature	+5 °C to +35 °C
Duty class	S3-50 % - 1 min. (30 sec. on; 30 sec. off)

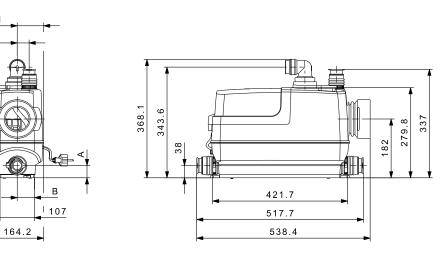
Electrical data

Supply voltage	1 x 220-240 V - 10 %/+ 6 %, 50 Hz
Power consumption, P1	Max. 620 W
Rated current	3.0 A
Power factor, cos φ	0.87/0.92
Speed	2800 min ⁻¹
Enclosure class	IP44
Insulation class	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)

Dimensions

82.1 37

1



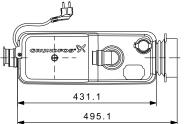


Fig. 27 Dimensional drawings, Sololift2 CWC-3

Pipe diameter	Туре	A [I	nm]	B [mm]	
ripe diameter	Type	Min.	Max.	Min.	Max.
Ø36/40	Eccentric	32	42	49	59
Ø50	Centric	37		37 54	

Performance

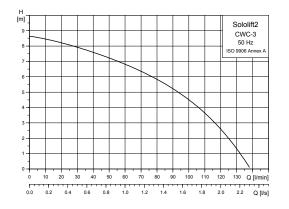


Fig. 26 Performance curves, Sololift2 CWC-3



Sololift2 CWC-3

Marking and approvals

Description

The Sololift2 units are CE-marked and have obtained the following approvals: • VDE

- . EMV
- TÜV/LGA
- GOST (AR56).

Marking



Approvals



Design and scope of delivery

The Sololift2 CWC-3 is supplied with a tank made of wastewater-resistant composite with inspection cover. Features:

- · DN 100 connecting piece with flexible hose to the toilet.
- Additional inlet connecting piece at the top for pipes • of Ø32 and Ø40 (Ø36 for UK version).
- Two additional side inlet connections. One connector with clamps is included (2 x Ø36 inserts for discharge and inlet are included in the UK version).
- Two side inlet connections with integrated backflow ٠ flap valves.
- Venting valve with carbon filter, overflow protection and integrated adapter for a \emptyset 20 vent pipe.
- · Inner pipework with auto coupling to the pumpmotor unit.
- One pump-motor unit fixed to the tank with four captive screws. The pump discharge to the inner pipework of the tank is fixed to the auto coupling from the inner pipework of the tank.
- 1.2 m cable and plug. See *Technical data*, page 19.
- Flexible adapter hose for inlet pipes of Ø32 and Ø40 (Ø36 for UK version).
- Feet for floor-mounting including screws and • expansion anchors.
- Non-return valve.
- Discharge adapters from Ø22 to Ø40 (plus Ø36 for • UK version).
- Drain hose with clamps and plug. •



5. Sololift2 C-3

Sololift2 C-3 is a small, compact, ready-to-install automatic lifting station. It is suitable for pumping grey wastewater without faeces off places in any kind of building.

The unit is designed according to EN 12050-2.



Fig. 28 Sololift2 C-3

Applications

Sololift2 C-3 is suitable for pumping grey wastewater from a washing machine, dishwasher, bathtub, cabinet shower, washbasin or kitchen sink. The unit is designed for front-wall installations. The professional design enables handling of wastewater at temperatures up to 75 °C during continuous operation and up to 90 °C for up to 30 minutes.

Typical applications:

- · Basement installations below sewer level.
- In connection with the renovation or modernisation of existing buildings where the location may be remote from the main soil pipe so that a natural slope cannot be established, for example attics.



Fig. 29 Example of application

Features and benefits

Robustness and operational reliability

 The powerful motor ensures optimum operational reliability when pumping grey wastewater at temperatures up to 90 °.

Easy installation and replacement

- Height-adjustable discharge and inlet connections ensure easy installation and replacement.
- Two selectable levels fit any application, and the slim design enables installation in confined spaces.

Easy maintenance and service

- The removable, compact pump-motor unit makes any service job a fast and clean matter.
- No need to disconnect discharge and inlet pipes or to remove the unit for service.

Sizing guide

As the Sololift2 C-3 is used with several combinations of units, it is necessary to consider the maximum performance of the unit in relation to different discharge pipe diameters at a minimum self-cleaning velocity of v = 0.7 m/s.

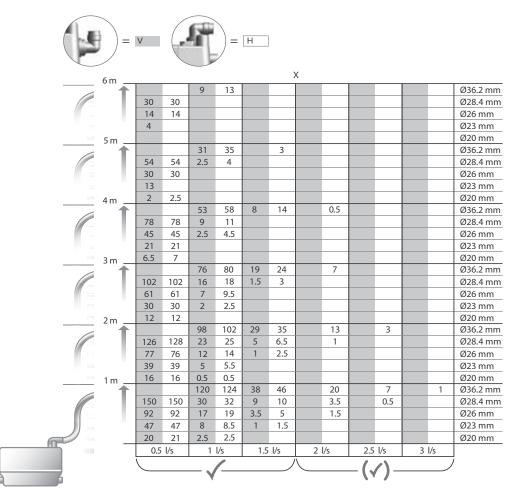


Fig. 30 Pipe length and height in relation to inner pipe diameter and required discharge capacity

Figure 30 shows the maximum lengths and heights of discharge pipes in metres in relation to inner pipe diameter and discharge capacity of the unit. To ensure optimum operation, the total inflow must not exceed the discharge capacity stated in the table, depending on pipe diameter, height and length. Four bends, a non-return valve and an isolating valve have already been taken into account.

If the discharge capacity exceeds 1.5 l/s, the noise level may increase. We recommend to choose a pipe diameter that ensures a discharge capacity below 1.5 l/s, if possible, when no discharge capacity above 1.5 l/s is required.

Sololift2 C-3

Construction features

Sololift2 C-3			ption
		Pos.	Operational reliability
	-	1	Motor Powerful motor that enables pumping of grey wastewater at temperatures up to 90 °C from domestic and commercial washing machines and dishwashers. Motor protection by thermal switch with automatic restart. Three shaft seals and an additional V-ring ensure long operational life.
	-	2	Free passage Vortex pump with a free passage of 20 mm and internal self-venting valve for stable start.
	-	3	Venting valve Venting valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
	1111	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
13 2 8 13	TM050494111	5	Non-return flap valves Non-return flap valves prevent back- and cross-flow to inlet pipes.
	-	Pos.	Easy maintenance and service
18 15 16	-	6	Access to components Design with dry motor for easy and clean service.
163	-	7	Compact block unit Pump, motor and controller form a compact block unit which is easy to remove for service and replacement. No need to disconnect the Sololift2 tank and connected pipes when service is required.
	-	8	Auto coupling Self-adjusting auto coupling eases assembly.
4	-	9	Screws All important screws are captive screws, which facilitates service work.
	-	10	Level switch The level switch can be removed without getting into contact with the inside of the tank.
5	7	11	Two start levels Two start levels available, i.e. a low start level which is suitable for modern flat shower trays and a higher start level which is suitable for the inflow from a washing machine or bathtub.
15 11	FM05 0487 1111	12	Drain connection Separate tank drain function is available by connecting a drain hose.
	TM05 (13	Bottom Bottom design with strong chamfer to prevent sedimentation in corners.
	-	Pos.	Easy installation and replacement
	-	14	Dimensions Very compact dimensions. The position of discharge and inlet connections ensures easy replacement of Sololift+ and similar units of other makes. No extra work on pipes required.
6 and 7	-	15	Inlet Eccentric, height-adjustable connectors for side inlets, i.e. in addition to the inlet at the top of the tank.
9	-	16	Discharge A turnable 360 ° adapter incorporating a non-return valve enables vertical or horizontal discharge direction for easy replacement.
1 Alexandress of the second se	-	17	Feet for floor-mounting Feet for floor-mounting are easy to install.
	35 1111	18	Pre-fabricated plug for installation of an optional alarm float switch. Can also be retrofitted.
17	TM05 0495 1111		

Visit the animation of Sololift2 features on www.grundfos.com or local Grundfos homepages.

Installation requirements

This section shows installation examples and describes the installation requirements. Installation is done quickly and easily by using flexible hose connectors with several adapter options for almost any pipe diameter.

The start/stop levels are made for the modern flat shower trays.

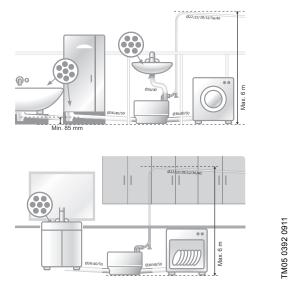


Fig. 31 Examples of installation

Note: The first part of the discharge pipe should preferably be vertical. All horizontal pipes must have a fall of minimum 1 % to the main soil pipe. The measurements in fig. 32 must be observed.



Fig. 32 Measurements to be observed

When the unit is located inside a wall or in a floor unit, observe the minimum measurements to ensure that the unit can be inspected and is accessible for service. The float switch can be removed to adjust a higher start level to increase the pump performance for larger inflow from a washing machine, dishwasher or bathtub. The float switch can also be removed for inspection and cleaning, if necessary. See fig. 33.

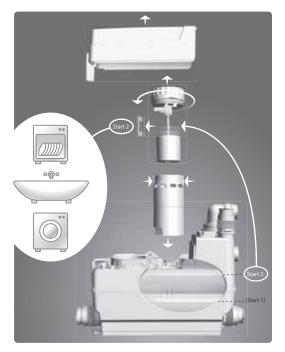


Fig. 33 Adjustment of the float switch

Connections



Fig. 34 Horizontal or vertical discharge

The turnable 360 $^\circ$ discharge adapter can be fitted horizontally or vertically. The adapter incorporates a non-return valve.

The discharge and inlet connections can be adapted to the following pipe diameters:

Connection	Outer diameter						
	Ø22	Ø25	Ø28	Ø32	Ø36 ¹⁾	Ø40	Ø50
Discharge	٠	٠	٠	٠	(•)	٠	-
Inlet at the top	-	-	-	٠	(•)	٠	-
Inlet from side ²⁾	-	-	-	-	(•)	•	٠

 Two adapters included for UK version. Also available as accessories.

 One connector is included. Further connectors available as accessories.

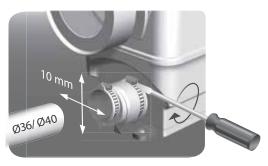


Fig. 35 Height and side alignment possible when using Ø36/40 inlet pipes

FM05 0376 0911

Product numbers

Product	Plug	Sales region	Prod. no.
Sololift2 C-3	Schuko	Europe	97775317
	Schuko	Russia	97775322
	AUS	Australia	97775327
	No plug	UK	97775332

Accessories

Product		Description	Prod. no.
Alarm device, LC A2		Alarm device with an integrated Schuko socket and plug to stop a washing machine or dishwasher in case of backflow in the Sololift2 and/or to send an audible alarm. I _{max.} = 16 A Power supply: 230 V, 50 Hz. Potential-free contact: 3A, 250 VAC or 30 VDC.	97775338
	M05 0397	30 VDC. Buzzer: 97 dB(A)/1 m. Dimensions: 140 x 60 x 90 mm.	
Float switch		Magnetic float switch for the LC A2 alarm device. Cable length: 10 m.	97775337
Replacement hose	1111	Flexible PVC hose with two clamps and an adapter to the discharge of the Sololift2. Dimensions: • Length: 500 mm. • Inner diameter: Ø32. • Outer diameter: Ø38.	97772316
Adapter kit, inlet	TM05 0378 0911	Kit, second inlet Ø50/50/40	97775335
Adapter ring, Ø36		Kit, adapter ∅36 UK	97775336
036	7	Suitable for discharge and inlet connections. Note: The adapter is included in the UK version.	

Sololift2 C-3

TM04 9880 0211

5

Technical data

Mechanical data

Net weight	6.6 kg
Tank volume	5.7 litres
Flexible discharge elbow	Ø22/25/28/32/36/40
Dimensions of possible inlet	1 x \emptyset 32/36/40 from the top 2 x \emptyset 36/40/50 in the side
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
pH value of the pumped liquid	4 to 10
Maximum liquid temperature	75 °C continuously 90 °C for 30 minutes
Ambient temperature	+5 °C to +35 °C
Duty class	S3-50 % - 1 min. (30 sec. on; 30 sec. off)

Electrical data

Supply voltage	1 x 220-240 V - 10 %/+ 6 %, 50 Hz
Power consumption, P1	Max. 640 W
Rated current	3.1 A
Power factor, cos φ	0.66/0.90
Speed	2800 min ⁻¹
Enclosure class	IP44
Insulation class	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)

Dimensions



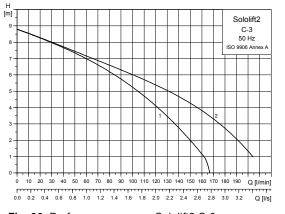


Fig. 36 Performance curves, Sololift2 C-3

Legend

Pos.	Description
1	Horizontal outlet
2	Vertical outlet

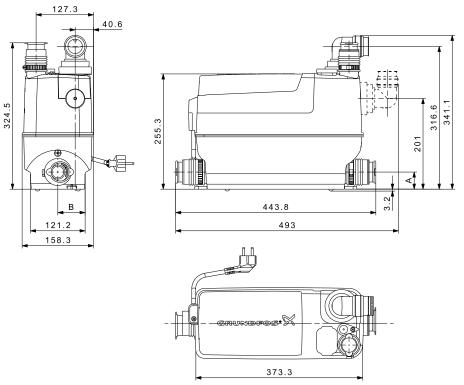


Fig. 37 Dimensional drawings, Sololift2 C-3

Pipe diameter	Type	1] A	nm]	B [mm]		
Fipe diameter	rype	Min.	Max.	Min.	Max.	
Ø36/40	Eccentric	33	43	56	66	
Ø50	Centric	38		38 61		61

Sololift2 C-3

Marking and approvals

Description

The Sololift2 units are CE-marked and have obtained the following approvals: • VDE

- .
- EMV TÜV/LGA
- GOST (AR56).

Marking



Approvals



Design and scope of delivery

The Sololift2 C-3 is supplied with a tank made of wastewater-resistant composite with inspection cover. Features:

- Inlet connecting piece at the top for pipes of Ø32 and Ø40 (Ø36 for UK version).
- Two additional side inlet connections. One connector with clamps is included (2 x Ø36 inserts for discharge and inlet are included in the UK version).
- Two side inlet connections with integrated backflow flap valves.
- Adapter with hose nozzle to connect a washing ٠ machine or dishwasher.
- Venting valve with carbon filter, overflow protection and integrated adapter for a \emptyset 20 vent pipe.
- · Inner pipework with auto coupling to the pumpmotor unit.
- One pump-motor unit fixed to the tank with three captive screws. The pump discharge to the inner pipework of the tank is fixed to the auto coupling from the inner pipework of the tank.
- 1.2 m cable and plug. See *Technical data*, page 26.
- Flexible adapter hose for inlet pipes of Ø32 and Ø40 (Ø36 for UK version).
- Feet for floor-mounting including screws and • expansion anchors.
- Non-return valve.
- Discharge adapters from Ø22 to Ø40 (plus Ø36 for • UK version).
- Drain hose with clamps and plug. •

6. Sololift2 D-2

Sololift2 D-2 is a small, compact, ready-to-install automatic lifting station. It is suitable for pumping grey wastewater without faeces off places in any kind of building.

The unit is designed according to EN 12050-2.



Fig. 38 Sololift2 D-2

Applications

Sololift2 D-2 is suitable for pumping grey wastewater from a washbasin, cabinet shower or bidet. The unit is designed for front-wall installation or installation in a cabinet under a sink.

Typical applications:

- · Basement installations below sewer level.
- In connection with the renovation or modernisation of existing buildings where the location may be remote from the main soil pipe so that a natural slope cannot be established, for example attics.



Fig. 39 Example of application

Features and benefits

Robustness and operational reliability

• The robust motor, crankcase and shaft in contact with wastewater are made of stainless steel.

Easy installation and replacement

• Slim design for installation in confined spaces.

Easy maintenance and service

- The removable, compact pump-motor unit makes any service job a fast and clean matter.
- No need to disconnect discharge and inlet pipes or to remove the unit for service.

Sizing guide

As the Sololift2 D-2 is used with several combinations of units, it is necessary to consider the maximum performance of the unit in relation to different discharge pipe diameters at a minimum self-cleaning velocity of v = 0.7 m/s.

_ 4m _			Х		
					Ø28.4 mm
∠ 3 m	6				Ø20 mm
		24			Ø28.4 mm
2 m	22	0.1			Ø20 mm
		47	3		Ø28.4 mm
_ 1m	37	4.5			Ø20 mm
		71	10		Ø28.4 mm
	52	9.5			Ø20 mm
	0.25 l/s	0.5 l/s	1 l/s	1.5 l/s	

Fig. 40 Pipe length and height in relation to inner pipe diameter and required discharge capacity

Figure 40 shows the maximum lengths and heights of discharge pipes in metres in relation to inner pipe diameter and discharge capacity of the unit. To ensure optimum operation, the total inflow must not exceed the discharge capacity stated in the table, depending on pipe diameter, height and length. Four bends, a non-return valve and an isolating valve have already been taken into account.

TM05 0527 1211

Sololift2 D-2

Construction features

Sololift2 D-2		Descri	ption
		Pos.	Operational reliability
	-	1	Motor Powerful motor that enables pumping of grey wastewater. Motor protection by thermal switch with automatic restart. Three shaft seals ensure long operational life.
	-	2	Free passage Pump with a free passage of 10 mm and internal self-venting valve for stable start.
14	111	3	Venting valve Venting valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
2 7 11 12	M05 0399 1111	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
	F.	Pos.	Easy maintenance and service
	-	5	Access to components Design with dry motor for easy and clean service.
9 3 4	-	6	Compact block unit Pump, motor and controller form a compact block unit which is easy to remove for service and replacement. Other components can be replaced as single parts. No need to disconnect the Sololift2 tank and connected pipes when service is required.
	-	7	Auto coupling Self-adjusting auto coupling eases assembly.
	-	8	Screws All important screws are captive screws, which facilitates service work.
	-	9	Anti-blocking Manual anti-blocking function for deblocking of the motor. No dismantlin required.
- P	_	10	Drain connection Separate tank drain function is available by connecting a drain hose.
/ 10 16	FM05 0492 1111	11	Level switch Level switch with low start level which is suitable for modern flat shower trays. The level switch can be removed without getting into contact with the inside of the tank. All electrical parts are positioned outside the tank
	TM05 (12	Bottom Bottom design with strong chamfer to prevent sedimentation in corners.
	-	Pos.	Easy installation and replacement
	-	13	Slim design Very slim design that fits into the smallest cabinets/cupboards, for example under a washbasin.
	-	14	Connecting pieces Two connecting pieces for side inlets.
5 and 6	-	15	Discharge Vertical, turnable discharge incorporating a non-return valve.
	-	16	Feet for floor-mounting Feet for floor-mounting are easy to install.
8	TM05 0493 1111		
	TM05		

Visit the animation of Sololift2 features on www.grundfos.com or local Grundfos homepages.

Installation requirements

This section shows an installation example and describes the installation requirements. Installation is done quickly and easily by using flexible hose connectors with two adapter options to the pipe diameters.

The start/stop levels are made for the modern flat shower trays.

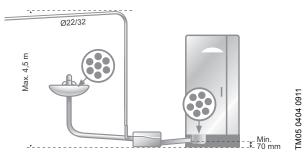


Fig. 41 Example of installation

Note: The first part of the discharge pipe should preferably be vertical. All horizontal pipes must have a fall of minimum 1 % to the main soil pipe.

The measurements in figs 41 and 42 must be observed.

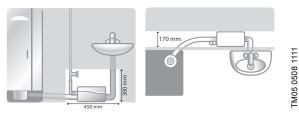


Fig. 42 Measurements to be observed

When the unit is located inside a wall or in a floor unit, observe the minimum measurements to ensure that the unit can be inspected and is accessible for service.

Connections

The turnable discharge adapter incorporates a non-return valve.

The discharge and inlet connections can be adapted to the following pipe diameters:

		Outer diameter							
Ø22	Ø25	Ø28	Ø32	Ø36 ¹⁾	Ø40	Ø50			
٠	-	-	٠	-	-	-			
-	-	-	-	(•)	٠	-			
	•	• -	•	• •	• • -	• •			

¹⁾ Adapter included for UK version. Also available as an accessory.

Product numbers

Product	Plug	Sales region	Prod. no.
Sololift2 D-2	Schuko	Europe	97775318
	Schuko	Russia	97775323
	AUS	Australia	97775328
	No plug	UK	97775333

Accessories

Description	Prod. no.
Kit, second inlet Ø40/40/32	97775334
Kit, adapter Ø36 UK	97775336
Suitable for discharge and inlet connections.	
Note: The adapter is included in the UK version.	
	Kit, second inlet Ø40/40/32 Kit, adapter Ø36 UK Suitable for discharge and inlet connections.

Technical data

Mechanical data

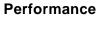
Net weight	4.3 kg
Tank volume	2.0 litres
Flexible discharge elbow	Ø22/32
Dimensions of possible inlet	2 x \varnothing 32/36/40 in the side
Start and stop levels	Start level: 58 mm above floor level Stop level: 35 mm above floor level
pH value of the pumped liquid	4 to 10
Maximum liquid temperature	50 °C
Ambient temperature	+5 °C to +35 °C
Duty class	S3-50 % - 1 min. (30 sec. on; 30 sec. off)

Electrical data

Supply voltage	1 x 220-240 V - 10 %/+ 6 %, 50 Hz
Power consumption, P1	Max. 280 W
Rated current	1.3 A
Power factor, cos φ	0.90/0.95
Speed	2800 min ⁻¹
Enclosure class	IP44
Insulation class	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)

307

Dimensions



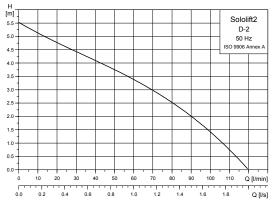


Fig. 43 Performance curves, Sololift2 D-2

TM04 9880 0211

TM04 9917 0311

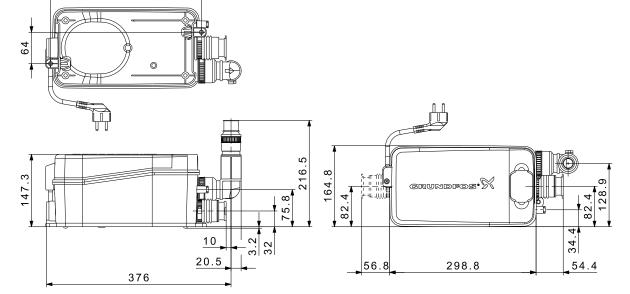


Fig. 44 Dimensional drawings, Sololift2 D-2

Sololift2 D-2

Marking and approvals

Description

The Sololift2 units are CE-marked and have obtained the following approvals:VDE

- .
- EMV TÜV/LGA
- GOST (AR56).

Marking



Approvals



Design and scope of delivery

The Sololift2 D-2 is supplied with a tank made of wastewater-resistant composite with inspection cover. Features:

- Two additional side inlet connections of Ø32 and Ø40 (Ø36 for UK version). One flexible connection hose with clamps is included.
- Two side inlet connections with integrated backflow flap valves.
- Venting valve with carbon filter, overflow protection and integrated adapter for a Ø20 vent pipe.
- Inner pipework with auto coupling to the pump-٠ motor unit.
- One pump-motor unit fixed to the tank with four captive screws. The pump discharge to the inner pipework of the tank is fixed to the auto coupling from the inner pipework of the tank.
- 1.2 m cable and plug. See Technical data, page 32.
- Flexible adapter hose for inlet pipes of Ø32 and • Ø40 (Ø36 for UK version).
- · Feet for floor-mounting including screws and expansion anchors.
- Non-return valve and discharge adapters from Ø22 and Ø32.
- Drain hose with clamps and plug. •

7. Product range, overview

Product numbers

Overview of available products:

					Oabla law with	Wei	ghts	Shipping	
Product M	Mains supply	Plug	Sales region	Discharge port	Cable length -	Net	Gross	volume	Product number
			-		[m]	[kg]	[kg]	[m ³]	
		Schuko	Europe	Ø22/25/28/32/36/40			.2	_	97775314
Sololift2 WC-1		Schuko	Russia			7.3 9		0.052	97775319
30101112 WC-1		AUS	Australia	022123120132130140		1.5 9	.2	0.032	97775324
	_	No plug	UK	_					97775329
		Schuko	Europe				.3	0.052	97775315
Sololift2 WC-3		Schuko	Russia	Ø22/25/28/32/36/40		7.3 9			97775320
30101112 WC-3		AUS	Australia			7.3 9 .3	.5	0.052	97775325
		No plug	UK						97775330
	_	Schuko	Europe	Ø22/25/28/32/36/40			1 90	0.046	97775316
Sololift2 CWC-3	1 x 220-240 V	Schuko	Russia		1.2	7 4			97775321
30101112 000-3	- 10 %/+ 6 %, 50 Hz	AUS	Australia		1.2	7.1 9.0	0.046	97775326	
	_	No plug	UK						97775331
	_	Schuko	Europe		-				97775317
Sololift2 C-3		Schuko	Russia	Ø22/25/28/32/36/40		6.5	8.1	0.036	97775322
301011112 C-3		AUS	Australia	ØZZIZ3IZ6/3Z/30/40		6.5	0.1		97775327
	_	No plug	UK						97775332
	-	Schuko	Europe						97775318
Sololift2 D-2		Schuko	Russia	Ø22/32/36		4.2	4.8	0.022	97775323
301011112 D-2		AUS	Australia	WZZI3ZI30		4.2	4.0	0.022	97775328
		No plug	UK						97775333

Accessories

Product	Description	Applicable to	Product number
Alarm device	Acoustic alarm in case of malfunction. Printed-circuit board to be pushed into an internal slot.	Sololift2 WC-1 Sololift2 WC-3 Sololift2 CWC-3	97772315
Replacement hose	 Flexible PVC hose with two clamps and an adapter to the discharge of the Sololift2. Length: 500 mm. Inner diameter: Ø32. Outer diameter: Ø38. 	Sololift2 WC-1 Sololift2 WC-3 Sololift2 CWC-3 Sololift2 C-3	97772316
LC A2 alarm device	LC A2 alarm device with socket designed for stopping washing machines or dishwashers to prevent flooding in case the Sololift2 is blocked or malfunctions. The socket can be used as power supply for other appliances and for switching on/off appliances in case of fault. The device will give an audible alarm and/or start/stop the appliance connected. I _{max.} = 16 A	Sololift2 C-3	97775338
Level switch	Magnetic float switch Cable length: 3 m.	Sololift2 C-3	97775337
Adapter kit, inlet	Kit, second inlet Ø40/40/32	Sololift2 D-2	97775334
Adapter kit, inlet	Kit, second inlet Ø50/50/40	Sololift2 WC-3 Sololift2 CWC-3 Sololift2 C-3	97775335
Adapter ring	ing Kit, adapter Ø36 UK S S S S S S		97775336
Drain hose	 Flexible PVC hose with two clamps and a plug. Applicable when the tank of the Sololift2 is to be drained for service. Length: 500 mm. Inner diameter: Ø12. Outer diameter: Ø14.4. 	Sololift2 WC-1 Sololift2 WC-3	97789093

Technical data

Product	Rated current			Enclosure	Insulation	Speed	Motor protection	Cable	
[A]	[W]	Cos φ	class	class	[min ⁻¹]				
Sololift2 WC-1	3.0	620	0.92						
Sololift2 WC-3	3.0	620	0.92						
Sololift2 CWC-3	3.0	620	0.92	IP44	F	2800	Built-in thermal switch	0.75 mm ² (H05VV-F-3G)	
Sololift2 C-3	3.1	640	0.90						
Sololift2 D-2	1.3	280	0.95						

Scope of delivery

Overview of the included fittings:

	Product	Fittings included on delivery
Sololift2 WC-1		 1 elbow (Ø40 to Ø40-32) 1 adapter with built-in non-return valve 1 pipe joint (Ø40 to Ø40-32) 1 cover valve 1 adapter (Ø22/32) 1 adapter (Ø25/32) 1 adapter (Ø28/32) 4 adapter (Ø36/40), only UK Hose clamps (1 x Ø90, 4 x Ø32-50) 2 feet for floor-mounting Screws and wall plugs
Sololift2 WC-3		 1 elbow (Ø40 to Ø40-32) 1 adapter with built-in non-return valve 1 pipe joint (Ø40 to Ø40-32) 1 pipe joint (Ø40 to Ø40-32) 1 pipe joint (Ø50 to Ø50-40) 1 cover valve 1 adapter (Ø22/32) 1 adapter (Ø25/32) 1 adapter (Ø28/32) 2 adapters (Ø36/40), only UK Hose clamps (1 x Ø90, 4 x Ø32-50, 2 x Ø40-60) 2 feet for floor-mounting Screws and wall plugs
Sololift2 CWC-3		 1 elbow (Ø40 to Ø40-32) 1 pipe joint (Ø40 to Ø40-32) 1 pipe joint (Ø50 to Ø50-40) 1 adapter (Ø22/32) 1 adapter (Ø28/32) 2 adapters (Ø36/40), only UK 3 dapter (Ø38/40), only UK 4 drain hose 9 House clamps (1 x Ø90, 4 x Ø32-50, 2 x Ø40-60, 2 x Ø8-16) 2 feet for floor-mounting Screws and wall plugs
Sololift2 C-3		 1 elbow (Ø40 to Ø40-32) 1 pipe joint (Ø40 to Ø40-32) 1 pipe joint (Ø50 to Ø50-40) 1 non-return valve 1 cover valve 1 adapter (Ø22/32) 1 adapter (Ø25/32) 1 adapter (Ø28/32) 2 adapters (Ø36/40), only UK 4 1 drain hose 1 plug for drain hose Hose clamps (4 x Ø32-50, 2 x Ø40-60, 2 x Ø8-16) 2 feet for floor-mounting YE
Sololift2 D-2		 1 pipe joint (Ø40 to Ø40-32) 1 outlet fitting (elbow) 1 adapter (Ø25/32) 1 adapter (Ø28/32) 1 adapter (Ø36/40), only UK 1 drain hose 1 plug for drain hose Hose clamps (4 x Ø32-50, 2 x Ø40-60, 2 x Ø8-16) 2 feet for floor-mounting Screws and wall plugs

8. Further product documentation

WebCAPS

DFOS WEBCAPS

CR 1



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F #2 0

Sizing

Replacement
CAD drawings.

Catalogue Based on fields of application and pump types, this section

languages.

Catalogue Literature

Service

•

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Based on fields of application and pump types, this section contains the following:

WebCAPS is a **Web**-based **C**omputer **A**ided **P**roduct **S**election program available on www.grundfos.com.

WebCAPS contains detailed information on more than

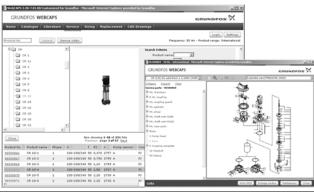
Information in WebCAPS is divided into six sections:

220,000 Grundfos products in more than 30

- technical data
- curves (QH, Eta, P1, P2, etc.) which can be adapted to the density and viscosity of the pumped liquid and show the number of pumps in operation
- product photos
 dimonsional drawing
- dimensional drawings wiring diagrams
- quotation texts, etc.



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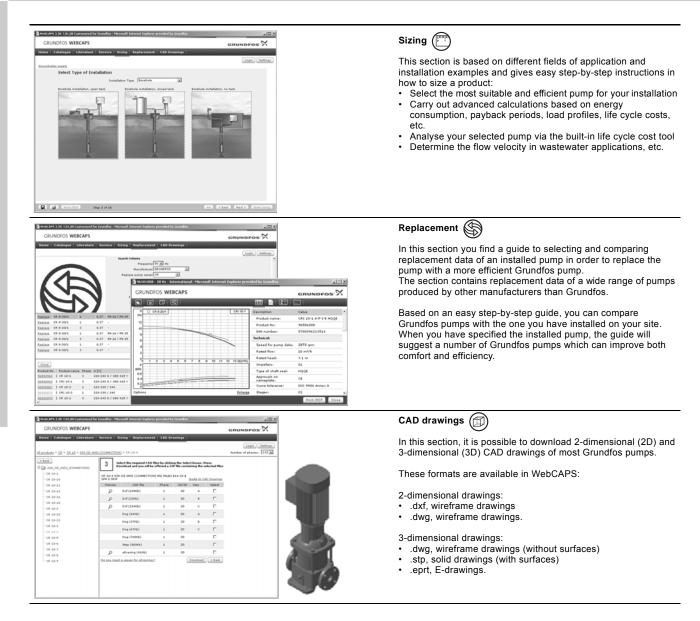
Literature

This section contains all the latest documents of a given pump, such as

- data booklets
- installation and operating instructions
- service documentation, such as Service kit catalogue and Service kit instructions
- quick guides
- product brochures.

Service

This section contains an easy-to-use interactive service catalogue. Here you can find and identify service parts of both existing and discontinued Grundfos pumps. Furthermore, the section contains service videos showing you how to replace service parts.



WinCAPS



Fig. 45 WinCAPS CD-ROM

WinCAPS is a **Win**dows-based **C**omputer **A**ided **P**roduct **S**election program containing detailed information on more than 220,000 Grundfos products in more than 30 languages.

The program contains the same features and functions as WebCAPS, but is an ideal solution if no internet connection is available.

WinCAPS is available on CD-ROM and updated once a year.

Subject to alterations.

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ECM: 1075285

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