**GRUNDFOS DATA BOOKLET** 

# Sololift2

**Small lifting stations** 50 Hz



be think innovate

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# 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 powerful 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.	$\begin{array}{l} H_{max}: 8.5 \text{ m.} \\ Q_{max}: 149 \text{ l/min.} \\ \text{Power consumption, P1: Max. 620 W.} \\ \text{Discharge connection: } \varnothing 22l/25/28/32/36/40. \\ \text{Main inlet connection: } \varnothing 100. \\ \text{Additional inlet connection at the top: } 1 \text{ x } \varnothing 32/36/40. \\ \end{array}$
Sololift2 WC-3	Description	Technical data
	Suitable for pumping wastewater from a toilet, washbasin, cabinet shower and a bidet or urinal. Features: • Robust design for safe and trouble-free operation with high-performance pump and powerful 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.	$\begin{array}{l} H_{max}: 8.5 \text{ m.} \\ Q_{max}: 149 \text{ l/min.} \\ \text{Power consumption, P1: Max. 620 W.} \\ \text{Discharge connection: } \varnothing 22/25/28/32/36/40. \\ \text{Main inlet connection: } \varnothing 100. \\ \text{Additional inlet connections} \\ \text{- at the top: } 1 \text{ x } \varnothing 32/36/40 \\ \text{- on the left and right sides: } 2 \text{ x } \varnothing 36/40/50. \end{array}$
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 powerful cutter squick and easy installation	$H_{max}$ : 8.5 m. $Q_{max}$ : 137 l/min. Power consumption, P1: Max. 620 W. Discharge connection: $\emptyset$ 22/25/28/32/36/40. Main inlet connection: $\emptyset$ 100. Additional inlet connections

# TM04 973

•

easy replacement using flexible connectors and adapters for discharge and inlets. Additional mile connectors are connectors and adapters in the top:  $1 \times \emptyset 32/36/40$  - at the top:  $1 \times \emptyset 32/36/40$  - on the left and right sides:  $2 \times \emptyset 36/40/50$ . •

# Sololift2 for grey wastewater applications

Sololift2 C-3	Description	Technical data
	Suitable for pumping grey wastewater from a washing machine, dishwasher, bath tub, cabinet shower, washbasin or kitchen sink, or brine from water softeners. 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.	$\begin{array}{l} H_{max}: 8.8 \mbox{ m.} \\ Q_{max}: 204 \mbox{ l/min.} \\ Power consumption, P1: Max. 640 \mbox{ W.} \\ Discharge connection: \varnothing 22/25/28/32/36/40. \\ Main inlet connection: \varnothing 100. \\ Additional inlet connections \\ - at the top: 1 x \ensuremath{\varnothing}32/36/40 \\ - on the left and right sides: 2 x \ensuremath{\varnothing}36/40/50. \end{array}$
Sololift2 D-2	Description	Technical data

	<ul> <li>Extremely compact variant for pumping grey wastewater from a washbasin, cabinet shower or bidet.</li> <li>Features: <ul> <li>Design for front-wall installation or installation in a cabinet</li> <li>robust design for safe and trouble-free operation with high-performance pump with 10 mm free passage</li> <li>ready to install</li> <li>built-in non-return flap valve, venting valve with carbon filter and overflow protection</li> <li>quick and easy installation</li> <li>service-friendly design with dry motor unit.</li> </ul> </li> </ul>	$\begin{array}{l} H_{max}: 5.5 \text{ m.} \\ Q_{max}: 105 \text{ l/min.} \\ \text{Power consumption, P1: Max. 280 W.} \\ \text{Discharge connection: } \varnothing 22/32. \\ \text{Additional inlet connections on the left and right sides: 2 x } \varnothing 36/40/50. \end{array}$
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**Product overview** 

# 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.

Sololift2 is suitable for pumping wastewater from 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 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).

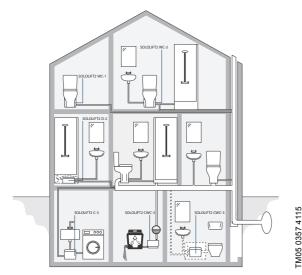


Fig. 1 Examples of application

# **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, 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 6. Sololift2 WC-3, page 10.

Sololift2 CWC-3, page 15.

Sololift2 C-3, page 19.

Sololift2 D-2, page 25.

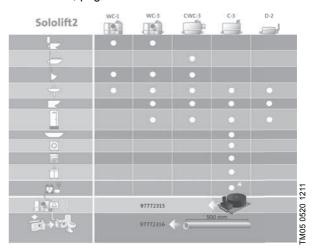


Fig. 2 Overview of Sololift2 lifting stations

\* The water softener application does not apply to 115 V, 60 Hz versions.

# Marking and approvals

Description

Sololift2 units are CE-marked and have obtained the following approvals: • VDE • TÜV/LGA • EAC.

Marking

E

Approvals







FM05 0360 091

# 2. Sololift2 WC-1

Sololift2 WC-1 is a small, compact, ready-to-install automatic lifting station with integrated powerful cutter system. It is suitable for pumping wastewater with faeces from 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 and 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

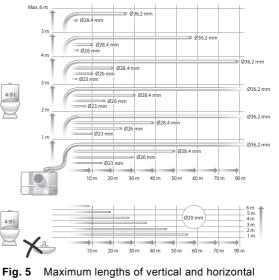
- The removable, compact pump-motor unit makes any service job a fast and clean matter.
- No need to disconnect discharge and inlet pipes or to remove the unit from behind the toilet.

# Sizing guide

LM05 0866 5015

TM05 0358 0911

The unit is designed for flush volumes between 4 and 9 litres.



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.

# **Construction features**

Sololift2 WC-1		Descri	ption
14 13		Pos.	Operational reliability
	_	1	Cutter The powerful cutter's ability to easily handle feminine hygiene products or similar increases the reliability. The pump has self-venting valve for stable start.
		2	Motor The powerful high-torque motor features motor protection via a thermal switch and automatic restart. Three shaft seals and an additional V-ring ensure long operational life.
	- <del>-</del>	3	Venting valve The venting valve has carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
2 1 7	TM05 0371 0911	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
	_	Pos.	Easy maintenance and service
9 /	_	5	Access to components Design with dry motor for easy and clean service.
113	TM05 0371 0911	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.
er-		10	Drain connection Separate tank drain function is available by connecting a drain hose.
15		11	Pressure switch Pressure switch control outside the tank, i.e. no moving parts and diaphragm in the wastewater.
	_	Pos.	Easy installation and replacement
5 and 6	_	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.
	-	13	Inlet Inlet connection at the top.
		14	Discharge A turnable 360 ° adapter incorporating a non-return valve enables vertical or horizontal discharge direction for easy replacement.
8	- -	15	Feet for floor-mounting Feet for floor-mounting are easy to install.
	TM05 0496 111	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.

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

Sololift2 WC-1

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# 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.

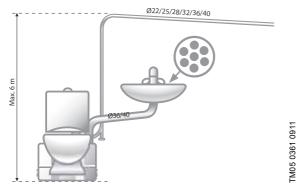


Fig. 6 Example of installation

**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.

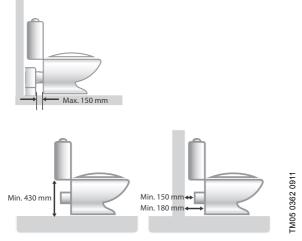
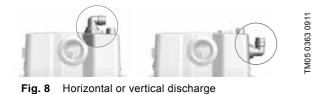


Fig. 7 Measurements to be observed

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



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:

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

 $^{1)}\;$  Two adapters included for UK version. Also available as accessories.

# **Product numbers**

Product	Plug	Sales region	Prod. No
	Schuko	Europe	97775314
Sololift2 WC-1	Schuko	Russia	97775319
301011112 000-1	AUS	Australia	97775324
	No plug	UK	97775329

# Accessories

Product		Description	Prod. No
Alarm device	TM05 0367 0911	Acoustic alarm in case of malfunction. Printed-circuit board to be pushed into an internal slot in Sololift2 WC-1.	97772315
Replacement hose	TM05 0377 1111	Flexible PVC hose with two clamps and an adapter for the discharge of Sololift2. Dimensions: • Length: 500 mm. • Inner diameter: Ø32. • Outer diameter: Ø38.	97772316
Drain hose	TM05 0370 0911	Flexible PVC hose with two clamps and a plug. Applicable when the Sololift2 tank is to be drained for service. Dimensions: • Length: 500 mm. • Inner diameter: Ø12. • Outer diameter: Ø14.4.	97789093
Adapter ring, Ø36	TM05 0379 0911	Kit, adapter Ø36 UK Suitable for discharge and inlet connections. <b>Note:</b> The adapter is included in the UK version.	97775336
	TM06 1041 1514	Connecting pipe for toilet: 250 mm, DN 90 Connecting pipe for toilet: 160 mm, DN 90	98162129 98162133

# **Technical data**

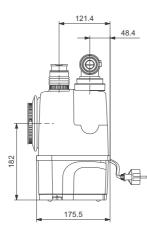
### **Mechanical data**

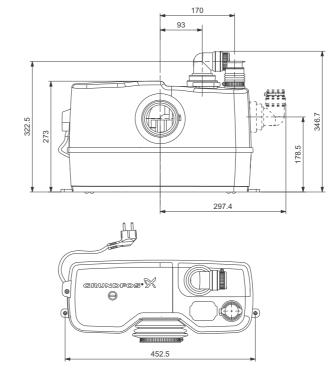
Net weight	7.3 kg
Tank volume	9.0 litres
Flexible discharge elbow	Ø22/25/28/32/36/40
Toilet connection	Toilet with horizontal Ø100 outlet according to EN 33 / EN 37.
Dimensions of possible inlet	1 x Ø32/36/40
Start and stop levels	Start: 72 mm above floor level Stop: 52 mm above floor level
pH value of the pumped liquid	4-10
Maximum liquid temperature	50 °C
Ambient temperature	5-35 °C
Noise level	< 70 dB(A) to 12050-2
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 <sup>-1</sup>
Enclosure class	IP44
Insulation class	F
Connecting cable	1.2 m, 0.75 mm <sup>2</sup> (H05VV-F-3G)

### Dimensions





### Fig. 10 Dimensional drawings, Sololift2 WC-1

### Performance

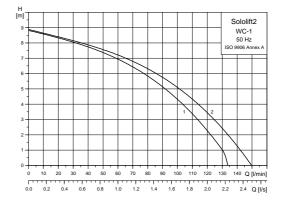


Fig. 9 Performance curves, Sololift2 WC-1

### Legend

Pos.	Description
1	Horizontal outlet
2	Vertical outlet

TM04 9877 0211

2

TM04 9914 0311

FM05 0374 091

# 3. Sololift2 WC-3

Sololift2 WC-3 is a small, compact, ready-to-install automatic lifting station with integrated powerful cutter system. It is suitable for pumping wastewater with faeces from 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

TM04 9729 5015

M05 0372 0911

The unit is designed for flush volumes between 4 and 9 litres.

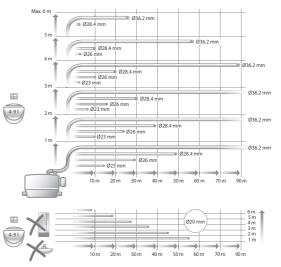


Fig. 13 Maximum lengths of vertical and horizontal discharge pipes

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		Descrip	tion
14		Pos.	Operational reliability
	-	1	Cutter The powerful cutter's ability to easily handle feminine hygiene products or similar increases the reliability. The pump has self-venting valve for stable start.
	-	2	Motor The powerful high-torque motor features motor protection via a thermal switch and automatic restart. Three shaft seals and an additional V-ring ensure long operational life.
	-	3	Venting valve The venting valve has carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
	111	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
/     / 2 1 8 5	TM05 0480 111	5	Non-return valves Non-return valves prevent back- and cross-flow to inlet pipes.
15	-	Pos.	Easy maintenance and service
17	-	6	Access to components Design with dry motor for easy and clean service.
10 3	-	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 4	-	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	1111	11	Drain connection Separate tank drain function is available by connecting a drain hose.
14 16	TM05 0507 1111	12	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.
	<del>, ,</del>	15	Discharge A turnable 360 ° adapter incorporating a non-return valve enables vertical or horizontal discharge direction for easy replacement.
9	06 111	16	Feet for floor-mounting Feet for floor-mounting are easy to install.
	TM05 0506 1111	17	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.

-M05 0363 0911

TM05 0487 1111

# 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.

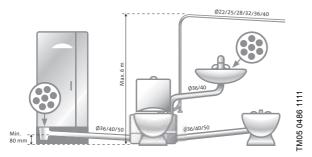


Fig. 14 Example of installation

**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 distances in fig. 15 must be observed.

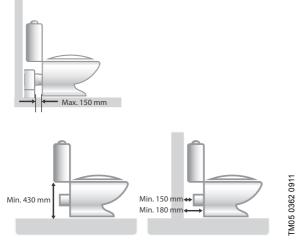


Fig. 15 Distances to be observed

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:

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

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

 One connector is included. Further connectors available as accessories.



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	TM05 0367 0911	Acoustic alarm in case of malfunction. Printed-circuit board to be pushed into an internal slot in Sololift2 WC-3.	97772315
Replacement hose	TM05 0377 1111	Flexible PVC hose with two clamps and an adapter for the discharge of Sololift2. Dimensions: • Length: 500 mm. • Inner diameter: Ø32. • Outer diameter: Ø38.	97772316
Drain hose	TM05 0370 0911	Flexible PVC hose with two clamps and a plug. Applicable when the Sololift2 tank is to be drained for service. Dimensions: • Length: 500 mm. • Inner diameter: Ø12. • Outer diameter: Ø14.4.	97789093
Adapter kit, inlet	TM05 0378 0911	Kit, second inlet Ø50/ 50/40	97775335
Adapter ring, Ø36	TM05 0379 0911	Kit, adapter Ø36 UK Suitable for discharge and inlet connections. <b>Note:</b> The adapter is included in the UK version.	97775336
Connecting pipe	TM06 1041 1514	Connecting pipe for toilet: 250 mm, DN 90 Connecting pipe for toilet: 160 mm, DN 90	98162129 98162133

# **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 Ø100 outlet according to EN 33 / EN 37.
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	4-10
Maximum liquid temperature	50 °C
Ambient temperature	5-35 °C
Noise level	< 70 dB(A) to 12050-2
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 <sup>-1</sup>
Enclosure class	IP44
Insulation class	F
Connecting cable	1.2 m, 0.75 mm <sup>2</sup> (H05VV-F-3G)

# Dimensions

### Performance

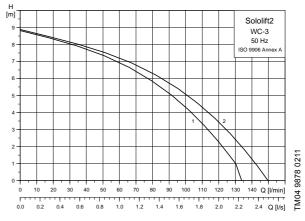
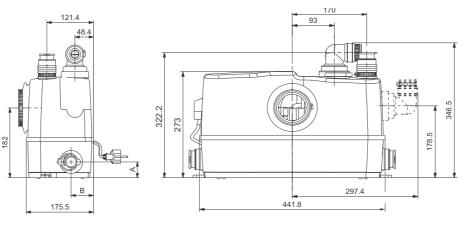


Fig. 18 Performance curves, Sololift2 WC-3

### Legend

Pos.	Description
1	Horizontal outlet
2	Vertical outlet



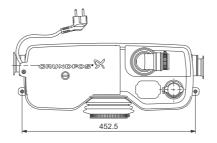


Fig. 19 Dimensional drawings, Sololift2 WC-3

Pipe diameter	Type	A [	mm]	B [mm]		
	Type	Min.	Max.	Min.	Max.	
Ø36/40	Eccentric	36	46	53	63	
Ø50	Centric	41		58		

TM04 9916 0311

# 4. Sololift2 CWC-3

Sololift2 CWC-3 is a slim, compact, ready-to-install automatic lifting station with integrated powerful cutter system. It is suitable for pumping wastewater with faeces from 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 between 4 and 9 litres.

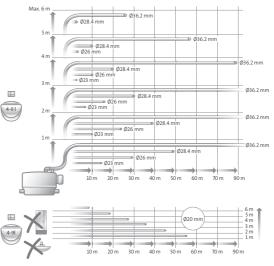


Fig. 22 Maximum lengths of vertical and horizontal discharge pipes

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.

FM05 0383 0911

# Sololift2 CWC-3

# **Construction features**

Sololift2 CWC-3	l	Descrip	otion
16		Pos.	Operational reliability
	-	1	Cutter The powerful cutter's ability to easily handle feminine hygiene products or similar increases the reliability. The pump has self-venting valve for stable start.
	_	2	Motor The powerful high-torque motor features motor protection via a thermal switch and 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.
	111 111	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
2 $1$ $8$ $13$	TM05 0489 1111 I	5	Non-return valves Non-return valves prevent back- and cross-flow to inlet pipes.
2	_	Pos.	Easy maintenance and service
10		6	Access to components Design with dry motor for easy and clean service.
12	_	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.
	-	9	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.
	M05 0490 1111	11	Drain connection Separate tank drain function is available by connecting a drain hose.
4 5		12	Pressure switch Pressure switch control outside the tank, i.e. no moving parts and diaphragm in the wastewater.
	TM05	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	TM05 0855 1711	17	Feet for floor-mounting Feet for floor-mounting are easy to install.

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

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.

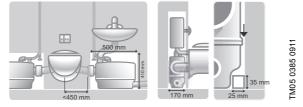


Fig. 24 Measurements to be observed

Sololift2 CWC-3 must be installed as close as possible (< 450 mm) to the wall-hung toilet in a front-wall 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:

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

 $^{1)}\;$  Two adapters included for UK version. Also available as accessories.

 One connector is included. Further connectors available as accessories.

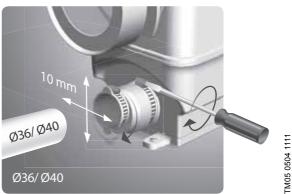


Fig. 25 Height and side alignment possible when using Ø36/40 inlet pipes

# **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 for the discharge of 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			
		Kit, adapter Ø36 UK	
1 miles	Ξ	Suitable for discharge and inlet connections.	97775336
036	379 0911	Note: The adapter is included in the UK	

TM05 0379

version.

Sololift2 CWC-3

# **Technical data**

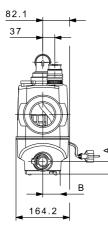
# Mechanical data

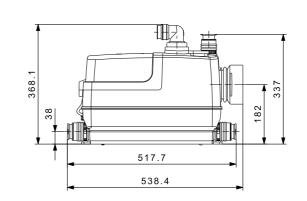
Net weight	7.1 kg
Tank volume	9.0 litres
Flexible discharge elbow	Ø22/25/28/32/36/40
Toilet connection	Toilet with horizontal Ø100 outlet according to EN 33 / EN 37.
Dimensions of possible inlet	1 x Ø32/36/40 on the top 2 x Ø36/40/50 in the side
Start and stop levels	Start: 72 mm above floor level Stop: 52 mm above floor level
pH value of the pumped liquid	4-10
Maximum liquid temperature	50 °C
Ambient temperature	5-35 °C
Noise level	< 70 dB(A) to 12050-2
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 <sup>-1</sup>
Enclosure class	IP44
Insulation class	F
Connecting cable	1.2 m, 0.75 mm <sup>2</sup> (H05VV-F-3G)

# Dimensions





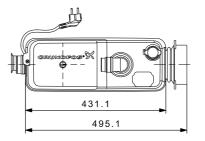


Fig. 27 Dimensional drawings, Sololift2 CWC-3

Pipe diameter	Туре	A [I	mm]	B [mm]		
i ipe didilietei	Type	Min.	Max.	Min.	Max.	
Ø36/40	Eccentric	32	42	49	59	
Ø50	Centric	3	37	5	4	

# Performance

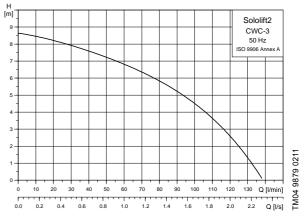


Fig. 26 Performance curves, Sololift2 CWC-3

Sololift2 CWC-3

# 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 from 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, bath tub, cabinet shower, washbasin or kitchen sink. Sololift C-3 can also handle brine from water softeners. 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 °.
- A higher grade of stainless steel components allows to discharge brine from water softeners at no additional cost.

### 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 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 0.7 m/s.

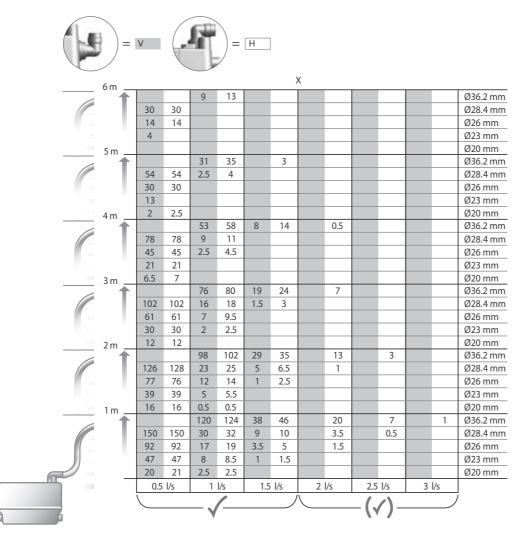


Fig. 30 Pipe length and height in relation to inner pipe diameter and required discharge capacity

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.

# **Construction features**

Sololift2 C-3			Descri	ption
14	10		Pos.	Operational reliability
	16	-	1	Motor The powerful motor 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.
	F	-	2	Free passage Vortex pump with a free passage of 20 mm and internal self-venting valve for stable start.
	12	-	3	Venting valve Venting valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
	15	94 111	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
13 2 8 13		TM05 0494 111	5	Non-return valves Non-return valves prevent back- and cross-flow to inlet pipes.
	15	-	Pos.	Easy maintenance and service
	16	-	6	Access to components Design with dry motor for easy and clean service.
	3	-	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.
A CONTRACT	4	-	9	Screws All important screws are captive screws, which facilitates service work.
	and a	-	10	Level switch The level switch can be removed without getting into contact with the inside of the tank.
	5	111	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 bath tub.
15 11		FM05 0487 1111	12	Drain connection Separate tank drain function is available by connecting a drain hose.
`5		1M05	13	Bottom Bottom design with strong chamfer to prevent sedimentation in corners.
			Pos.	Easy installation and replacement
6 and 7		-	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.
			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	1	-	17	Feet for floor-mounting Feet for floor-mounting are easy to install.
17		TM05 0495 1111	18	Pre-fabricated plug for installation of an optional alarm float switch. Can also be retrofitted.

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.

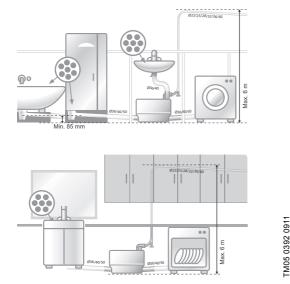


Fig. 31 Examples of installation

**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.

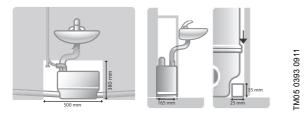


Fig. 32 Measurements to be observed

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. To increase the pump performance for larger inflow from a washing machine, dishwasher or bath tub, the float switch can be adjusted to a higher start level by turning the knob on top of the flow switch. See fig. 33.

Flow switch setting	Start level [mm]
Low	65 mm
High	115 mm

The float switch can also be removed for inspection and cleaning, if necessary.





TM06 5527 4815 - TM06 5527 4815

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

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

 One connector is included. Further connectors available as accessories.

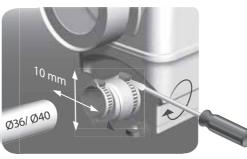


Fig. 35 Height and side alignment possible when using Ø36/40 inlet pipes

TM05 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 Sololift2 and/or to send an audible alarm.	
		I <sub>max.</sub> = 16 A	07775000
ka		Power supply: 230 V, 50 Hz.	97775338
3	911	Potential-free contact: 3 A, 250 VAC or 30 VDC.	
	M05 0397 0911	Buzzer: 97 dB(A)/1 m.	
	TM05	Dimensions: 140 x 60 x 90 mm.	
Float switch			
	0911	Magnetic float switch for the LC A2 alarm device.	97775337
	TM05 0398 091	Cable length: 10 m.	
Replacement hose	TM05 0377 1111	Flexible PVC hose with two clamps and an adapter for the discharge of 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 Ø36 UK Suitable for discharge	
036	TM05 0379 0911	and inlet connections. <b>Note:</b> The adapter is included in the UK version.	97775336

Sololift2 C-3

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# **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 Ø32/36/40 on the top 2 x Ø36/40/50 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	4-10
Maximum liquid temperature	75 °C continuously 90 °C for 30 minutes
Ambient temperature	5-35 °C
Noise level	< 70 dB(A) to 12050-2
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 <sup>-1</sup>
Enclosure class	IP44
Insulation class	F
Connecting cable	1.2 m, 0.75 mm <sup>2</sup> (H05VV-F-3G)

# Dimensions



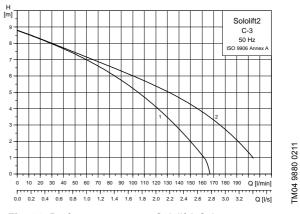
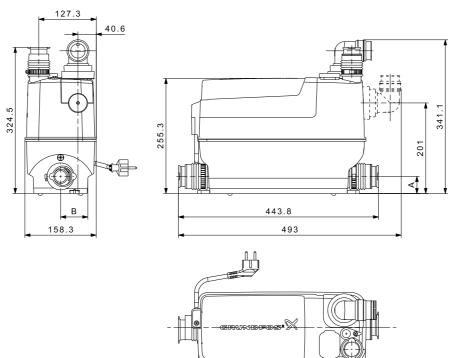


Fig. 36 Performance curves, Sololift2 C-3

### Legend

Pos.	Description
1	Horizontal outlet
2	Vertical outlet



373.3

TM04 9917 0311

### Fig. 37 Dimensional drawings, Sololift2 C-3

Pipe diameter	Туре	A [I	nm]	B [mm]	
i ipe diameter	pe diameter Type	Min.	Max.	Min.	Max.
Ø36/40	Eccentric	33	43	56	66
Ø50	Centric	3	8	6	51

# 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 from 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 powerful 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 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 0.7 m/s.

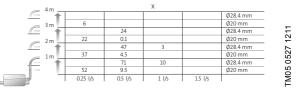


Fig. 40 Pipe length and height in relation to inner pipe diameter and required discharge capacity

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.

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# **Construction features**

Sololift2 D-2		Descri	ption			
1		Pos.	Operational reliability			
	-	1	Motor The powerful motor 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.			
	9 1111	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	TM05 0399 1111	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.			
9	· -	Pos.	Easy maintenance and service			
3	-	5	Access to components Design with dry motor for easy and clean service.			
	_	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.			
	rM05 0492 1111	-	-	-	9	Anti-blocking Manual anti-blocking function for deblocking of the motor. No dismantling required.
/ 10 16			10	Drain connection Separate tank drain function is available by connecting a drain hose.		
		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.			
	-M05	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.			
8	TM05 0493 1111	16	Feet for floor-mounting Feet for floor-mounting are easy to install.			

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.

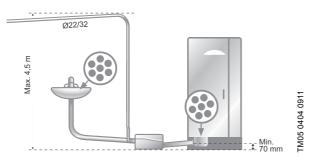


Fig. 41 Example of installation

**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.

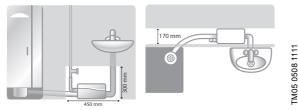


Fig. 42 Measurements to be observed

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:

Connection			Ou	ter dia	meter		
Connection	Ø22	Ø25	Ø28	Ø32	Ø36 <sup>1)</sup>	Ø40	Ø50
Discharge	٠	-	-	٠	-	-	-
Inlet from side	-	-	-	-	(•)	٠	-

<sup>1)</sup> 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	Schuko Russia	
	AUS	Australia	97775328
	No plug	UK	97775333

# Accessories

Product	Description	Prod. No
Adapter kit, inlet	← Kit, second inlet Ø40/ 80 80 80 80 80 80 80 80 80 80 80 80 80	97775334
Adapter ring, Ø36	Kit, adapter Ø36 UK Suitable for discharge and inlet connections. <b>Note:</b> The adapter is included in the UK version.	97775336

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# **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 Ø32/36/40 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	4-10
Maximum liquid temperature	50 °C
Ambient temperature	5-35 °C
Noise level	< 70 dB(A) to 12050-2
Duty class	S3-50 % - 1 min. (30 sec. on; 30 sec. off)

# **Electrical data**

1 x 220-240 V - 10 %/+ 6 %, 50 Hz
Max. 280 W
1.3 A
0.90 / 0.95
2800 min <sup>-1</sup>
IP44
F
1.2 m, 0.75 mm <sup>2</sup> (H05VV-F-3G)

# Dimensions

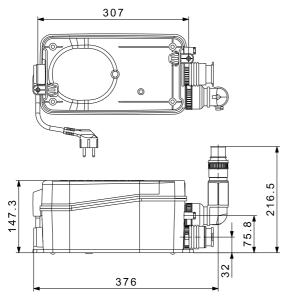


Fig. 44 Dimensional drawings, Sololift2 D-2

# Performance

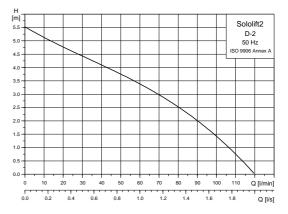
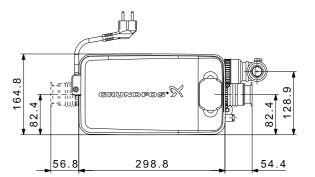




Fig. 43 Performance curves, Sololift2 D-2





# 7. Product range, overview

# **Product numbers**

Overview of available products:

					Cabla lan rith	Weights		Shipping	
Product Mains supply	Plug	Sales region	Discharge port	Cable length -	Net	Gross	volume	Product number	
					[m]	[kg]	[kg]	[m <sup>3</sup> ]	
		Schuko Europe					97775314		
Sololift2 WC-1		Schuko	Russia	Ø22/25/28/32/36/40		7.3	9.2	0.052	97775319
30101112 WC-1		AUS	Australia	ØZZIZJIZ0/JZ/J0/40		7.5	9.2	0.052	97775324
		No plug	UK						97775329
		Schuko	Europe			7.3	9.3	0.052	97775315
Sololift2 WC-3		Schuko	Russia	Ø22/25/28/32/36/40	1.2				97775320
00101112 WO-0		AUS	Australia	ØZZIZ3IZ6/3ZI30/40					97775325
		No plug	UK						97775330
		Schuko	Europe	Ø22/25/28/32/36/40		7.1	9.0	0.046	97775316
Sololift2 CWC-3	1 x 220-240 V	Schuko	Russia						97775321
00101112 0000 0	- 10 %/+ 6 %, 50 Hz	AUS	Australia						97775326
		No plug	UK						97775331
		Schuko	Europe			6.5	8.1	0.036	97775317
Sololift2 C-3		Schuko	Russia	Ø22/25/28/32/36/40					97775322
001011112 0 0		AUS	Australia	022/20/20/02/00/40					97775327
		No plug	UK						97775332
		Schuko	Europe				4.8	0.022 -	97775318
Sololift2 D-2		Schuko	Russia	Ø22/32/36		4.2			97775323
		AUS	Australia	2221J21JU					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	<ul> <li>Flexible PVC hose with two clamps and an adapter for the discharge of Sololift2.</li> <li>Length: 500 mm.</li> <li>Inner diameter: Ø32.</li> <li>Outer diameter: Ø38.</li> </ul>	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 Sololift2 is blocked or malfunctions. The socket can be used as power supply for		97775338
Level switch	Magnetic float switch Cable length: 10 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	Kit, adapter Ø36 UK		97775336
Drain hose	<ul> <li>Flexible PVC hose with two clamps and a plug. Applicable when the Sololift2 tank is to be drained for service.</li> <li>Length: 500 mm.</li> <li>Inner diameter: Ø12.</li> <li>Outer diameter: Ø14.4.</li> </ul>	Sololift2 WC-1 Sololift2 WC-3	97789093
Extension pipe	Connecting a Sololift2 WC-1 or WC-3 to some toilet variants, such as lfö, can be a challenge. These toilets have a ceramic frame around the outlet connection at the back preventing (fast) connection to Sololift2. An extension pipe can help the installer speed up installation in those cases.	Sololift2 WC1 Sololift2 WC-3	98162129 (250 mm) 98162133 (160 mm)

# **Technical data**

Product	Rated current	Power (P1)	Cos φ	Enclosure	Insulation class	Speed	Motor protection	Cable
	[A]	[W]		class	class	[min <sup>-1</sup> ]	-	
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 <sup>2</sup> (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		<ul> <li>1 elbow (Ø40 to Ø40-32)</li> <li>1 adapter with built-in non-return valve</li> <li>1 pipe joint (Ø40 to Ø40-32)</li> <li>1 cover valve</li> <li>1 adapter (Ø22/32)</li> <li>1 adapter (Ø25/32)</li> <li>1 adapter (Ø28/32)</li> <li>4 adapter (Ø36/40), only UK</li> <li>Hose clamps (1 x Ø90, 4 x Ø32-50)</li> <li>2 feet for floor-mounting</li> <li>Screws and wall plugs</li> </ul>
Sololift2 WC-3		<ul> <li>1 elbow (Ø40 to Ø40-32)</li> <li>1 adapter with built-in non-return valve</li> <li>1 pipe joint (Ø40 to Ø40-32)</li> <li>1 pipe joint (Ø50 to Ø50-40)</li> <li>1 cover valve</li> <li>1 adapter (Ø22/32)</li> <li>1 adapter (Ø25/32)</li> <li>1 adapter (Ø28/32)</li> <li>2 adapters (Ø36/40), only UK</li> <li>Hose clamps (1 x Ø90, 4 x Ø32-50, 2 x Ø40-60)</li> <li>2 feet for floor-mounting</li> <li>Screws and wall plugs</li> </ul>
Sololift2 CWC-3		<ul> <li>1 elbow (Ø40 to Ø40-32)</li> <li>1 pipe joint (Ø40 to Ø40-32)</li> <li>1 pipe joint (Ø50 to Ø50-40)</li> <li>1 adapter (Ø22/32)</li> <li>1 adapter (Ø25/32)</li> <li>1 adapter (Ø28/32)</li> <li>2 adapters (Ø36/40), only UK</li> <li>4 drain hose</li> <li>9 1 plug for drain hose</li> <li>Hose clamps (1 x Ø90, 4 x Ø32-50, 2 x Ø40-60, 2 x Ø8-16)</li> <li>2 feet for floor-mounting</li> <li>Screws and wall plugs</li> </ul>
Sololift2 C-3		<ul> <li>1 elbow (Ø40 to Ø40-32)</li> <li>1 pipe joint (Ø40 to Ø40-32)</li> <li>1 pipe joint (Ø50 to Ø50-40)</li> <li>1 non-return valve</li> <li>1 cover valve</li> <li>1 adapter (Ø22/32)</li> <li>1 adapter (Ø25/32)</li> <li>2 adapters (Ø36/40), only UK</li> <li>1 drain hose</li> <li>1 blug for drain hose</li> <li>Hose clamps (4 x Ø32-50, 2 x Ø40-60, 2 x Ø8-16)</li> <li>2 feet for floor-mounting</li> <li>Screws and wall plugs</li> </ul>
Sololift2 D-2		<ul> <li>1 pipe joint (Ø40 to Ø40-32)</li> <li>1 outlet fitting (elbow)</li> <li>1 adapter (Ø25/32)</li> <li>1 adapter (Ø28/32)</li> <li>1 adapter (Ø36/40), only UK</li> <li>1 drain hose</li> <li>1 plug for drain hose</li> <li>Hose clamps (4 x Ø32-50, 2 x Ø40-60, 2 x Ø8-16)</li> <li>2 feet for floor-mounting</li> <li>Screws and wall plugs</li> </ul>

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