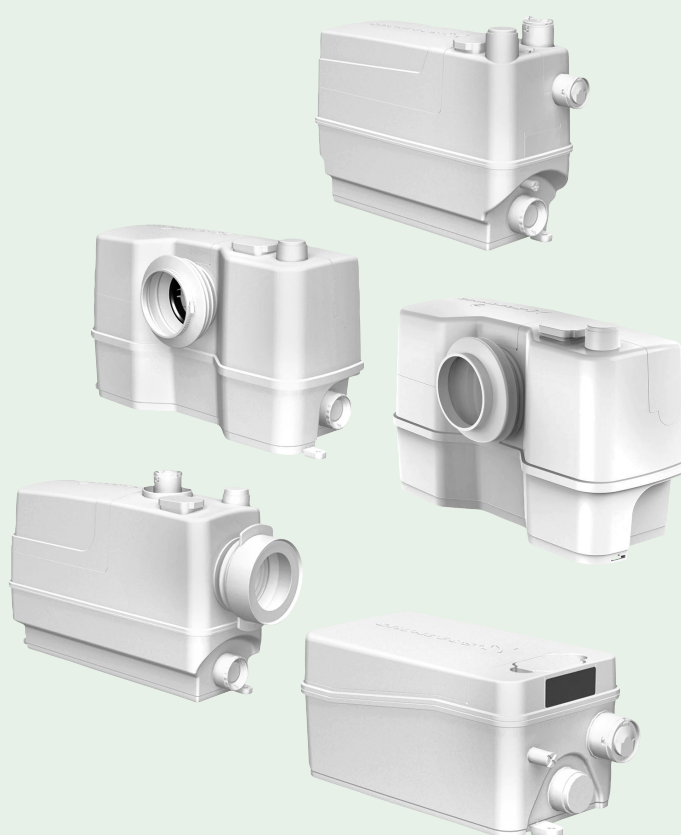


SOLOLIFT2

Small lifting stations

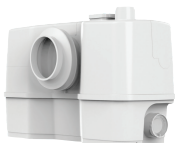
50 and 60 Hz



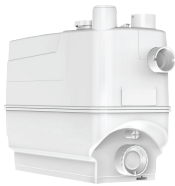
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1. Product overview

1.1 SOLOLIFT2 for toilet applications

SOLOLIFT2 WC-1	Description	Technical data	
 TM085256	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 - mandatory-ready to install - quick and easy installation - service-friendly design with dry motor unit - easy replacement using flexible connectors and adapters for outlet and inlets.	50 Hz	60 Hz
		$H_{\max.}$: 8.5 m	$H_{\max.}$: 8.5 m
		$Q_{\max.}$: 149 l/m	$Q_{\max.}$: 137 l/m
		Power consumption, P1: Max. 620 W	Power consumption, P1: Max. 650 W
		Outlet connection: $\varnothing 22/25/28/32/36/40$	Outlet connection: $\varnothing 22/25/28/32/36/40$
		Main inlet connection: $\varnothing 100$	Main inlet connection: $\varnothing 100$
		Additional inlet connection at the top: 1 × $\varnothing 32/36/40$	Additional inlet connection at the top: 1 × $\varnothing 32/36/40$
SOLOLIFT2 WC-3	Description	Technical data	
 TM085260	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 - mandatory-ready to install - quick and easy installation - service-friendly design with dry motor unit - easy replacement using flexible connectors and adapters for outlet and inlets.	50 Hz	60 Hz
		$H_{\max.}$: 8.5 m	$H_{\max.}$: 8.5 m
		$Q_{\max.}$: 149 l/m	$Q_{\max.}$: 137 l/m
		Power consumption, P1: Max. 620 W	Power consumption, P1: Max. 650 W
		Outlet connection: $\varnothing 22/25/28/32/36/40$	Outlet connection: $\varnothing 22/25/28/32/36/40$
		Main inlet connection: $\varnothing 100$	Main inlet connection: $\varnothing 100$
		Additional inlet connections: - at the top: 1 × $\varnothing 32/36/40$ - on the left and right sides: 2 × $\varnothing 36/40/50$	Additional inlet connections: - at the top: 1 × $\varnothing 32/36/40$ - on the left and right sides: 2 × $\varnothing 36/40/50$
SOLOLIFT2 CWC-3	Description	Technical data	
 TM085244	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 - quick and easy installation - service-friendly design with dry motor unit - easy replacement using flexible connectors and adapters for outlet and inlets.	50 Hz	60 Hz
		$H_{\max.}$: 8.5 m	$H_{\max.}$: 8.5 m
		$Q_{\max.}$: 137 l/m	$Q_{\max.}$: 142 l/m ret
		Power consumption, P1: Max. 620 W	Power consumption, P1: Max. 655 W
		Outlet connection: $\varnothing 22/25/28/32/36/40$	Outlet connection: $\varnothing 22/25/28/32/36/40$
		Main inlet connection: $\varnothing 100$	Main inlet connection: $\varnothing 100$
		Additional inlet connections: - at the top: 1 × $\varnothing 32/36/40$ - on the left and right sides: 2 × $\varnothing 36/40/50$	Additional inlet connections: - at the top: 1 × $\varnothing 32/36/40$ - on the left and right sides: 2 × $\varnothing 36/40/50$

1.2 SOLOLIFT2 for grey wastewater applications

SOLOLIFT2 C-3	Description	Technical data	
		50 Hz	60 Hz
 TM085237	Suitable for pumping wastewater from a washing machine, dishwasher, bath tub, cabinet shower, washbasin or kitchen sink, or brine from water softener. Features • Slim design for front-wall installation • high-performance pump with 20 mm free passage for handling effluents up to 90 °C • mandatory-ready to install • quick and easy installation • service-friendly design with dry motor unit • easy replacement using flexible connectors and adapters for outlet and inlets.	$H_{\max.}$: 8.8 m	$H_{\max.}$: 9.0 m
		$Q_{\max.}$: 204 l/m	$Q_{\max.}$: 178 l/m
		Power consumption, P1: Max. 640 W	Power consumption, P1: Max. 630 W
		Outlet connection: Ø22/25/28/32/36/40	Outlet connection: Ø22/25/28/32/36/40
		Inlet connections: - at the top: 1 × Ø32/36/40 - on the left and right sides: 2 × Ø36/40/50	Inlet connections: - at the top: 1 × Ø32/36/40 - on the left and right sides: 2 × Ø36/40/50
SOLOLIFT2 D-2	Description	Technical data	
		50 Hz	60 Hz
 TM085250	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 • mandatory-ready to install • built-in non-return flap valve, vent valve with carbon filter and overflow protection • quick and easy installation • service-friendly design with dry motor unit.	$H_{\max.}$: 5.5 m	$H_{\max.}$: 5.7 m
		$Q_{\max.}$: 105 l/m	$Q_{\max.}$: 121 l/m
		Power consumption, P1: Max. 280 W	Power consumption, P1: Max. 290 W
		Outlet connection: Ø22/32	Outlet connection: Ø22/32
		Inlet connections on the left and right sides: 2 × Ø36/40/50	Inlet connections on the left and right sides: 2 × Ø36/40/50

1.3 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.

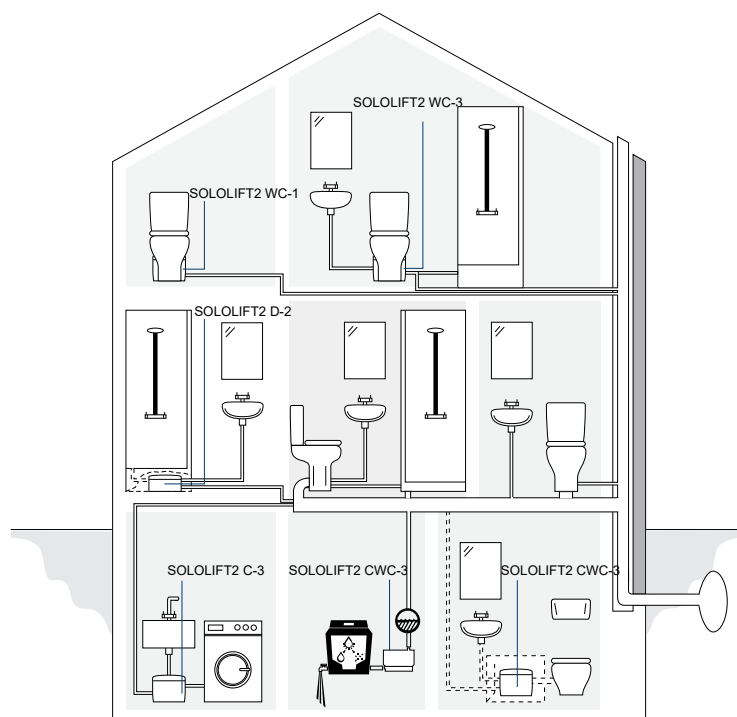
Any sanitary unit positioned below sewer level (backflow level) or far away from the main soil pipe can easily be drained by a SOLOLIFT2.

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).



TM050357

Examples of application

GRUNDFOS

1.5 Marking and approvals

SOLOLIFT2 units are CE-marked and have obtained the following approval

- TÜV
- EAC.

Marking



Approvals



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.



TM085256

SOLOLIFT2 WC-1

2.1 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.



TM050358

Example of application

2.2 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

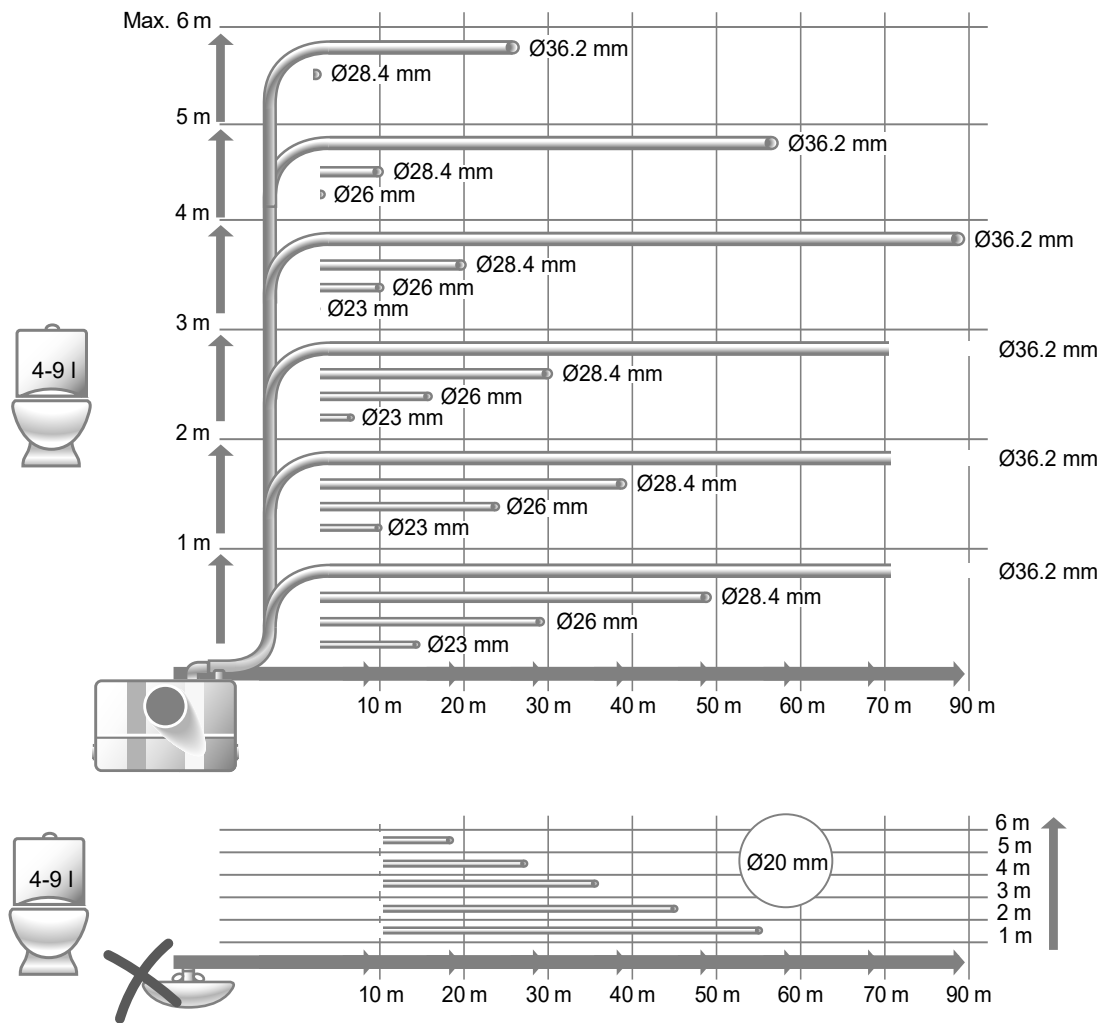
- Adjustable outlet and inlet connections ensure easy installation and replacement.

Easy maintenance and service

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

2.3 Sizing guide

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

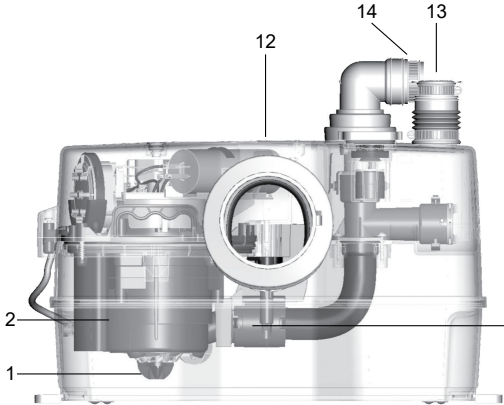
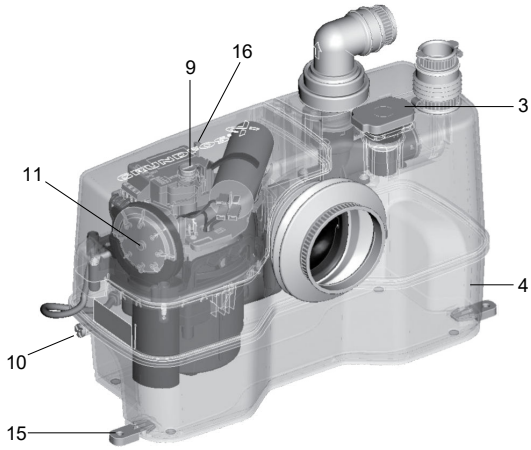


TM081067

Maximum lengths of vertical and horizontal outlet pipes

The figure above shows the maximum lengths of vertical and horizontal outlet 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.

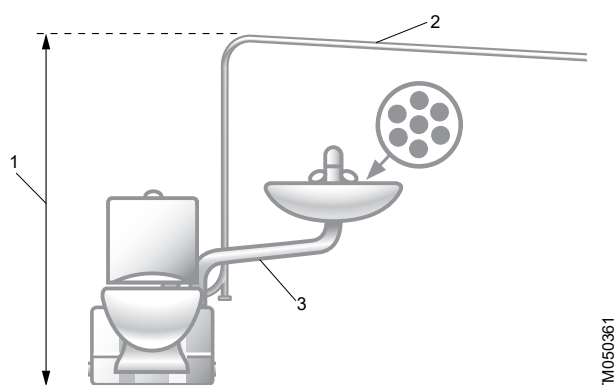
2.4 Construction features

SOLOLIFT2 WC-1		Description
	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-vent 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	Vent valve The vent valve has carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
	4	Tank Welded tank design which is pressure-tight up to 2.5 m water column.
	Pos.	Easy maintenance and service
	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. 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 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.
	10	Drain connection Separate tank drain function is available by connecting a drain hose.
	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 outlet 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	Outlet A turnable 360° adapter incorporating a non-return valve enables vertical or horizontal outlet direction for easy replacement.
	15	Feet for floor-mounting Feet for floor-mounting are easy to install.
	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.

2.5 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.

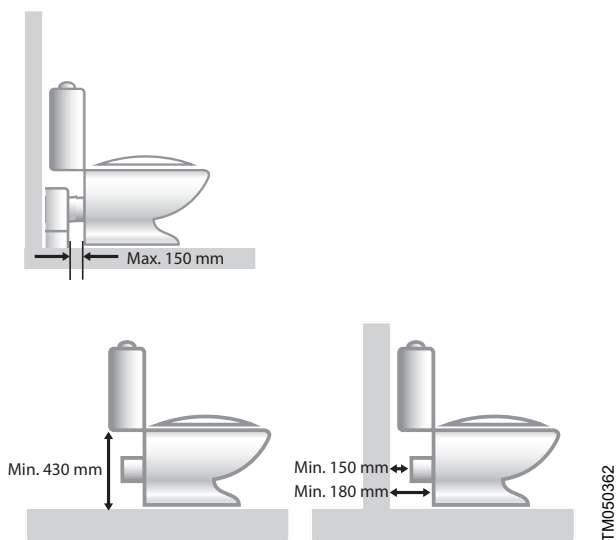


Example of installation

Pos.	Description
1	Max. 6 m
2	Ø22/25/28/32/36/40
3	Ø36/40

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

The measurements in the figure below must be observed.

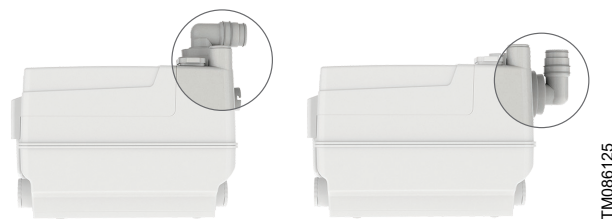


Measurements to be observed

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 the figure above to ensure that the unit is accessible for service.

2.5.1 Connections



Horizontal or vertical outlet

The turnable 360° outlet adapter can be fitted horizontally or vertically. The adapter incorporates a non-return valve. The outlet and inlet connections can be adapted to the following pipe diameters:

Connection	Outer diameter						
	Ø22	Ø25	Ø28	Ø32	Ø36 ¹⁾	Ø40	Ø50
Outlet	•	•	•	•	(•)	•	-
Inlet at the top	-	-	-	•	(•)	•	-

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

2.6 Product numbers

Frequency	Plug	Sales region	Product number
50 Hz	Schuko	Europe	97775314
	CN plug	China	99478897
	AUS	Australia	97775324
	No plug	UK	97775329
60 Hz	No plug	Saudi Arabia	98622960

2.7 Accessories

Product	Description	Product number
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 for the outlet of 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 SOLOLIFT2 tank 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 outlet and inlet connections. Note: The adapter is included in the UK version.	97775336
Connecting pipe	Connecting pipe for toilet: 250 mm, DN 90. Connecting pipe for toilet: 160 mm, DN 90.	98162129 98162133

2.8 Technical data

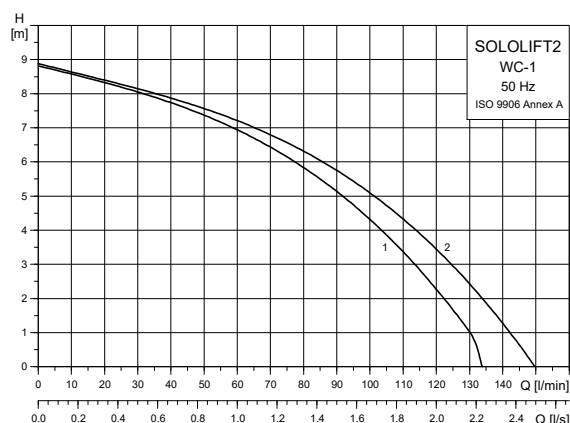
2.8.1 Mechanical data

50 and 60 Hz	
Net weight	7.3 kg
Tank volume	9.0 litres
Flexible outlet 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 × 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)

2.8.2 Electrical data

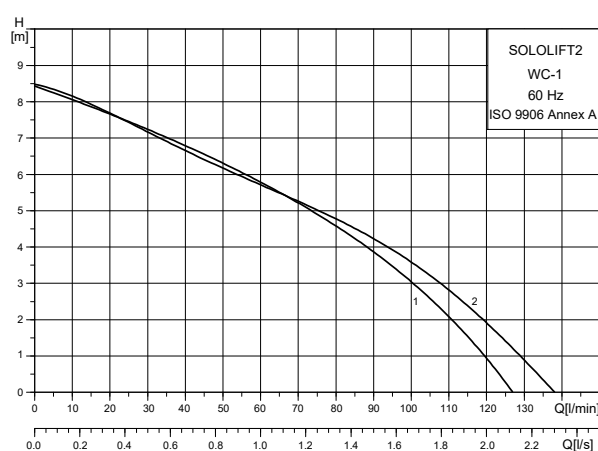
	50 Hz	60 Hz
Supply voltage	1 × 220-240 V -10% / +6%, 50 Hz	1 × 220 V -10 % / +6 %, 60 Hz
Power consumption, P1	Max. 620 W	Max. 650 W
Rated current	3.0 A	3.0 A
Power factor, cos φ	0.87 / 0.92	0.93
Speed	2800 min ⁻¹	3400 min ⁻¹
Enclosure class	IP44	IP44
Insulation class	F	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)	1.2 m, 0.75 mm ² (H05VV-F-3G)

2.8.3 Performance



TM049877

Performance curve for SOLOLIFT2 WC-1, 50 Hz

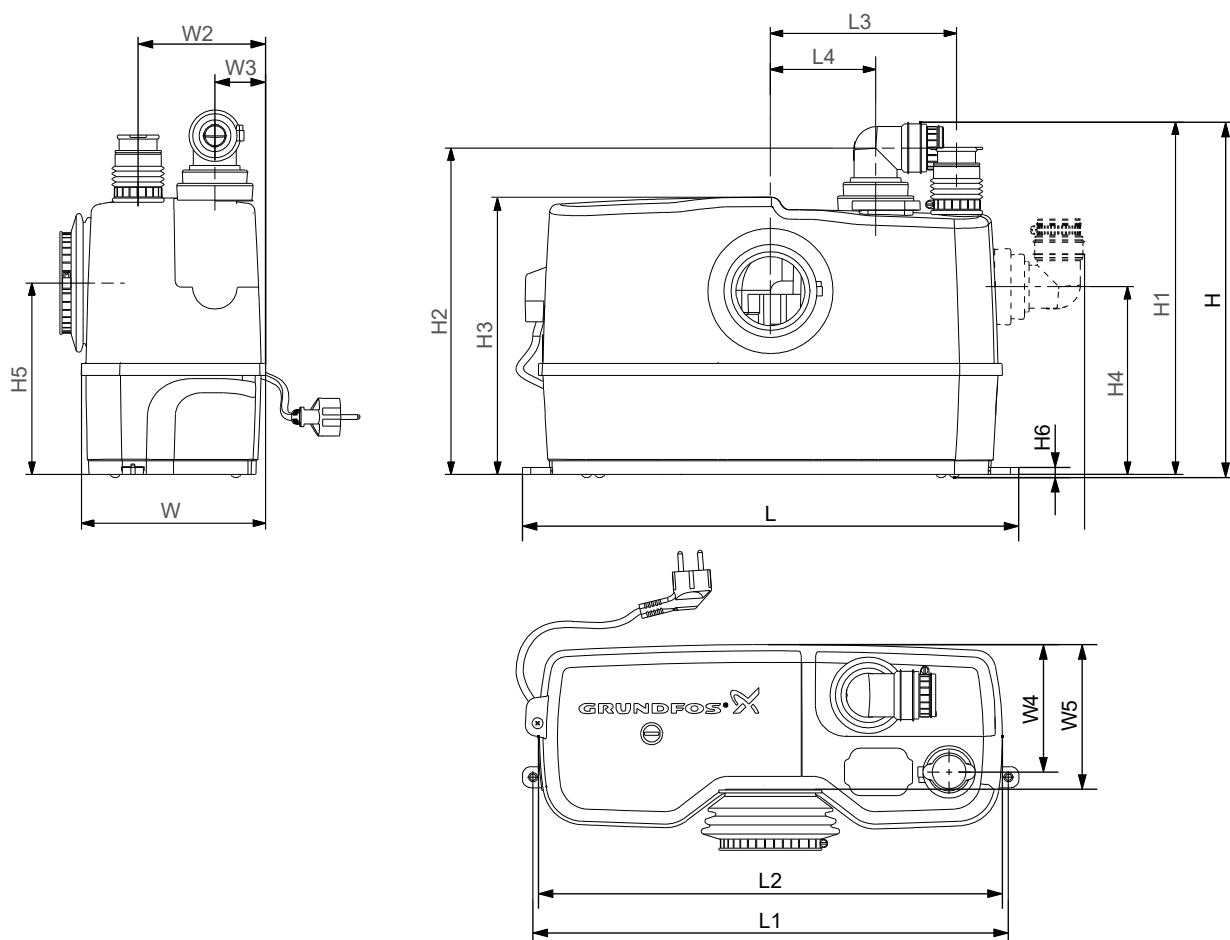


TM061751

Performance curve for SOLOLIFT2 WC-1, 60 Hz

Pos.	Description
1	Horizontal outlet
2	Vertical outlet

2.8.4 Dimensions



TM049914

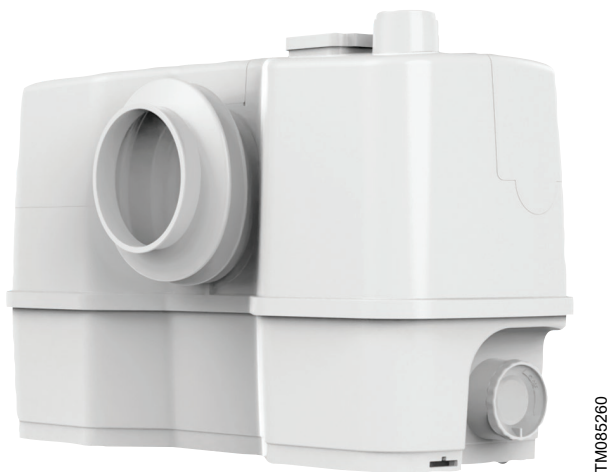
Dimensional drawings, SOLOLIFT2 WC-1

Pump type	Dimensions[mm]																		Connection [mm]	Weights[kg]
	L	L1	L2	L3	L4	W	W1	W2	W3	W4	W5	H	H1	H2	H3	H4	H5	H6		
SOLOLIFT2 WC-1	472	453	442	170	93	176	176	122	49	121	138	350	347	323	263	179	182	3.20	32/36/40, DN 100	9.6

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.



TM085260

SOLOLIFT2 WC-3

3.1 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.



TM050372

Example of application

3.2 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

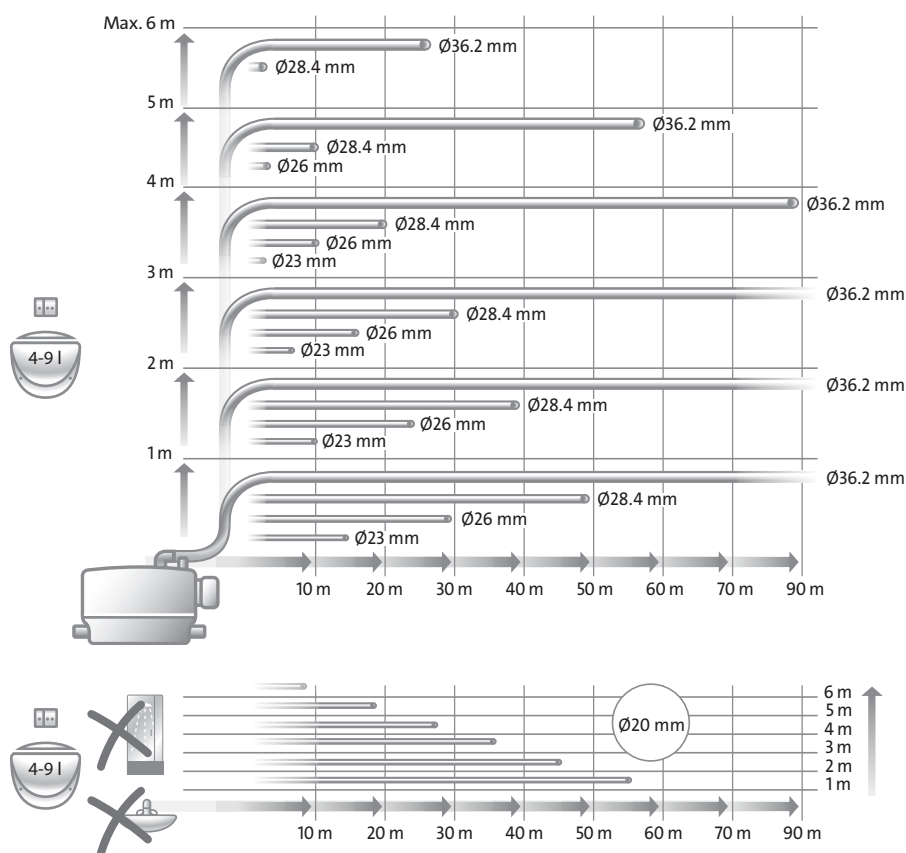
- Adjustable outlet and inlet connections ensure easy installation and replacement.

Easy maintenance and service

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

3.3 Sizing guide

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

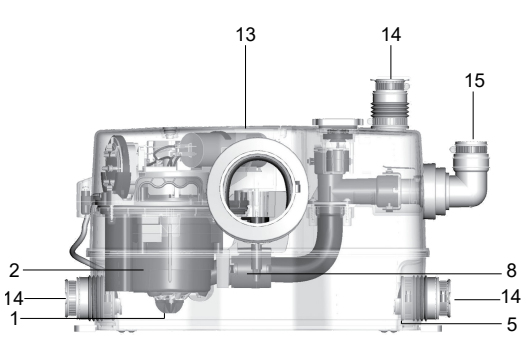
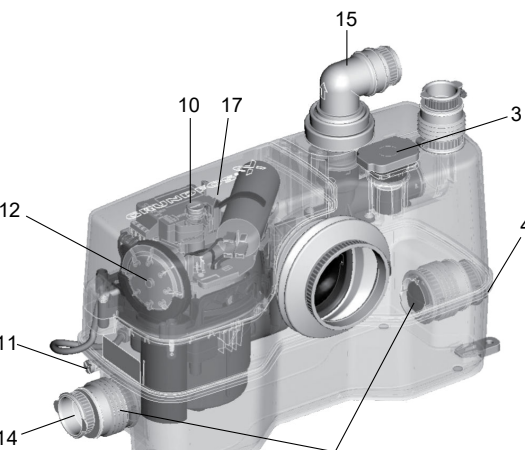


TM050374

Maximum lengths of vertical and horizontal outlet pipes

The figure above shows the maximum lengths of vertical and horizontal outlet 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.

3.4 Construction features

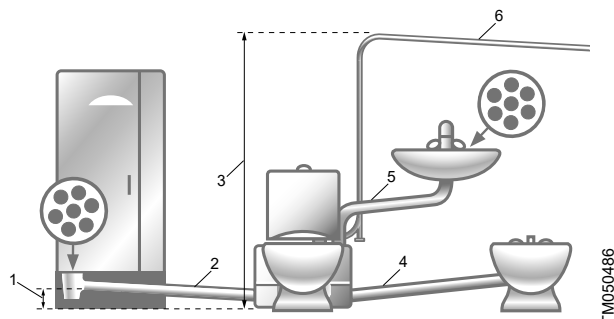
SOLOLIFT2 WC-3	Description
	Pos. Operational reliability
	Cutter
	1 The powerful cutter's ability to easily handle feminine hygiene products or similar increases the reliability. The pump has self-vent valve for stable start.
	Motor
	2 The powerful high-torque motor features motor protection via a thermal switch and automatic restart. Three shaft seals and an additional V ring ensure long operational life.
	Vent valve
	3 The vent valve has carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
	Tank
	4 Welded tank design which is pressure-tight up to 2.5 m water column.
	5 Non-return valves Non-return valves prevent back- and cross-flow to inlet pipes.
	Pos. Easy maintenance and service
	6 Access to components Design with dry motor for easy and clean service.
	Compact block unit
	7 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 Screws All important screws are captive screws, which facilitates service work.
	Anti-blocking
	10 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.
	12 Pressure switch Pressure switch control outside the tank, i.e. no moving parts and diaphragm in the wastewater.
	Pos. Easy installation and replacement
	Dimensions
	13 Very compact dimensions. The position of outlet and inlet connections ensures easy replacement of SOLOLIFT+ and similar units of other makes. No extra work on pipes required.
	Inlet
	14 Eccentric, height-adjustable connectors for side inlets, i.e. in addition to the inlet at the top of the tank.
	Outlet
	15 A turnable 360° adapter incorporating a non-return valve enables vertical or horizontal outlet direction for easy replacement.
	Feet for floor-mounting
	16 Feet for floor-mounting are easy to install.
	Alarm
	17 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.

3.5 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.



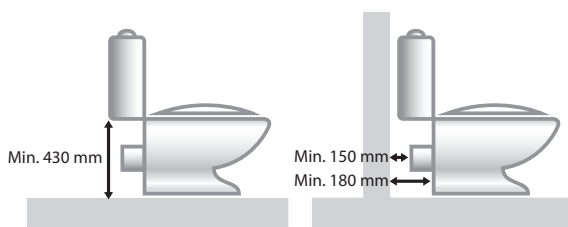
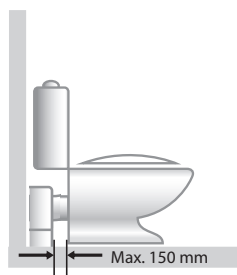
TM050486

Example of installation

Pos.	Description
1	Min. 80 mm
2	Ø36/40/50
3	Max. 6 m
4	Ø36/40/50
5	Ø36/40
6	Ø22/25/28/32/36/40

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

The distances in the figure below must be observed.



TM050362

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 the figure above to ensure that the unit is accessible for service.

3.5.1 Connections



TM081068

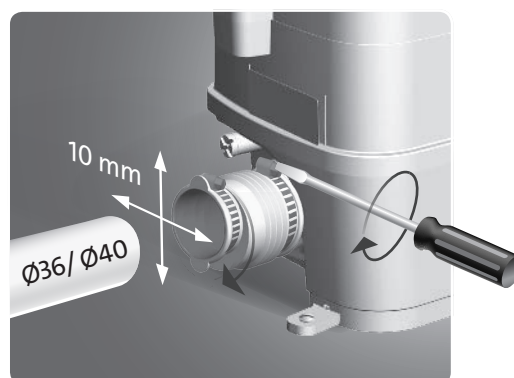
Horizontal or vertical outlet

The turnable 360° outlet adapter can be fitted horizontally or vertically. The adapter incorporates a non-return valve. The outlet and inlet connections can be adapted to the following pipe diameters:

Connection	Outer diameter						
	Ø22	Ø25	Ø28	Ø32	Ø36 ²⁾	Ø40	Ø50
Outlet	•	•	•	•	(•)	•	-
Inlet at the top	-	-	-	•	(•)	•	-
Inlet from side ³⁾	-	-	-	-	(•)	•	•

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

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



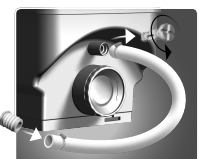
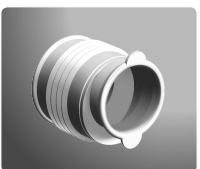
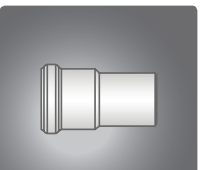
TM050487

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

3.6 Product numbers

Frequency	Plug	Sales region	Product number
50 Hz	Schuko	Europe	97775315
	CN plug	China	9947890
	AUS	Australia	97775325
	No plug	UK	97775330
60 Hz	No plug	Saudi Arabia	98622986

3.7 Accessories

Product	Description	Product number
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 for the outlet of 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 SOLOLIFT2 tank is to be drained for service.	
	Dimensions: • Length: 500 mm • Inner diameter: Ø12 • Outer diameter: Ø14.4	97789093
Adapter kit, inlet		
	Kit, second inlet Ø50/50/40.	
		97775335
Adapter ring, Ø36		
	Kit, adapter Ø36 UK. Suitable for outlet and inlet connections.	
	Note: The adapter is included in the UK version.	97775336
Connecting pipe		
	Connecting pipe for toilet: 250 mm, DN 90.	
	Connecting pipe for toilet: 160 mm, DN 90.	98162129 98162133

3.8 Technical data

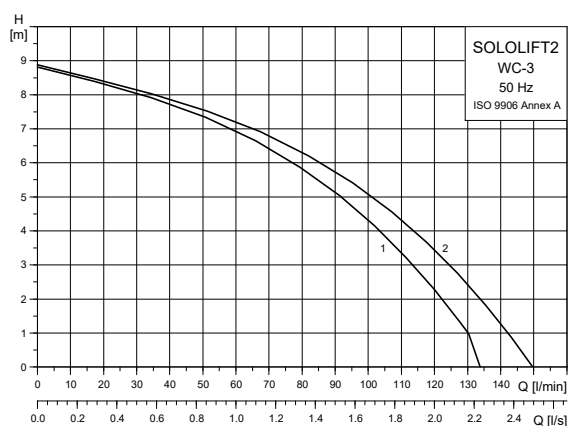
3.8.1 Mechanical data

50 and 60 Hz	
Net weight	7.3 kg
Tank volume	9.0 litres
Flexible outlet 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 × Ø32/36/40 2 × 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)

3.8.2 Electrical data

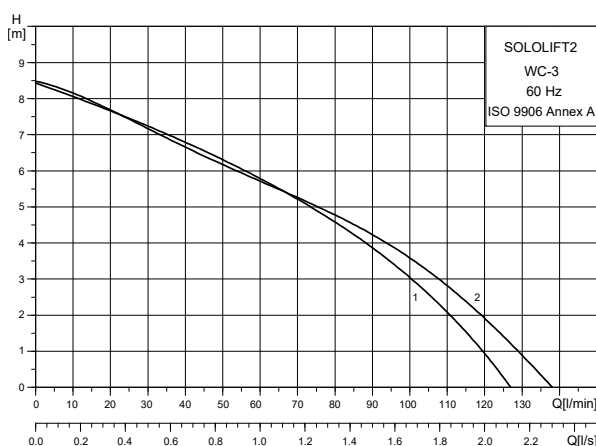
	50 Hz	60 Hz
Supply voltage	1 × 220-240 V -10% / +6%, 50 Hz	1 × 220 V -10 % / +6 %, 60 Hz
Power consumption, P ₁	Max. 620 W	Max. 650 W
Rated current	3.0 A	3.0 A
Power factor, cos φ	0.87 / 0.92	0.93
Speed	2800 min ⁻¹	3400 min ⁻¹
Enclosure class	IP44	IP44
Insulation class	F	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)	1.2 m, 0.75 mm ² (H05VV-F-3G)

3.8.3 Performance



TM049878

Performance curves for SOLOLIFT2 WC-3, 50 Hz

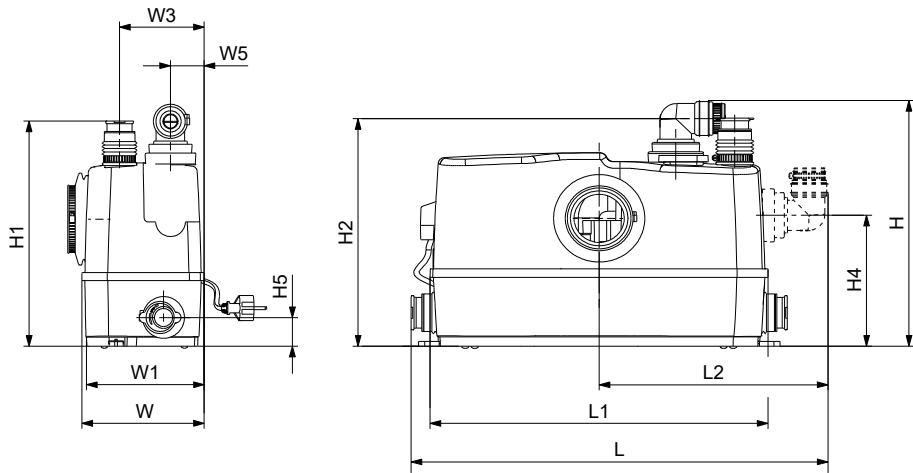


TM061757

Performance curves for SOLOLIFT2 WC-3, 60 Hz

Pos.	Description
1	Horizontal outlet
2	Vertical outlet

3.8.4 Dimensions



TM049916

Dimensional drawings, SOLOLIFT2 WC-3

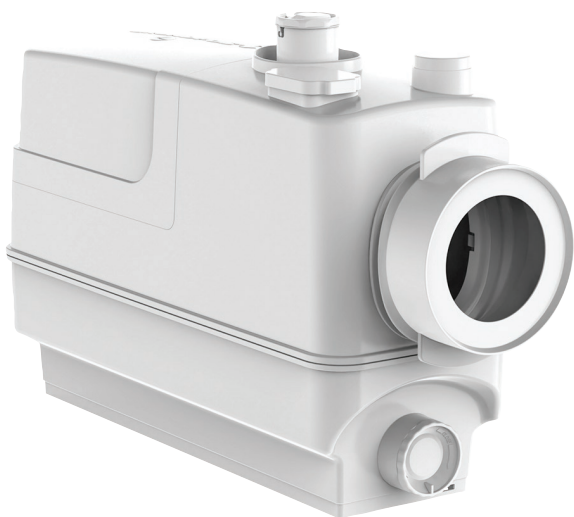
Pump type	Dimensions[mm]											Connection[mm]	Weights[kg]
	L	L1	L2	W	W1	W3	W5	H	H1	H2	H4		
SOLOLIFT2 WC-3	543	438	297	176	159	121	48	350	323	325	179	32/36/40, 36/40/50, DN 100	9.3

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

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.



TM085244

SOLOLIFT2 CWC-3

4.1 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.



TM050381

Example of application

4.2 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

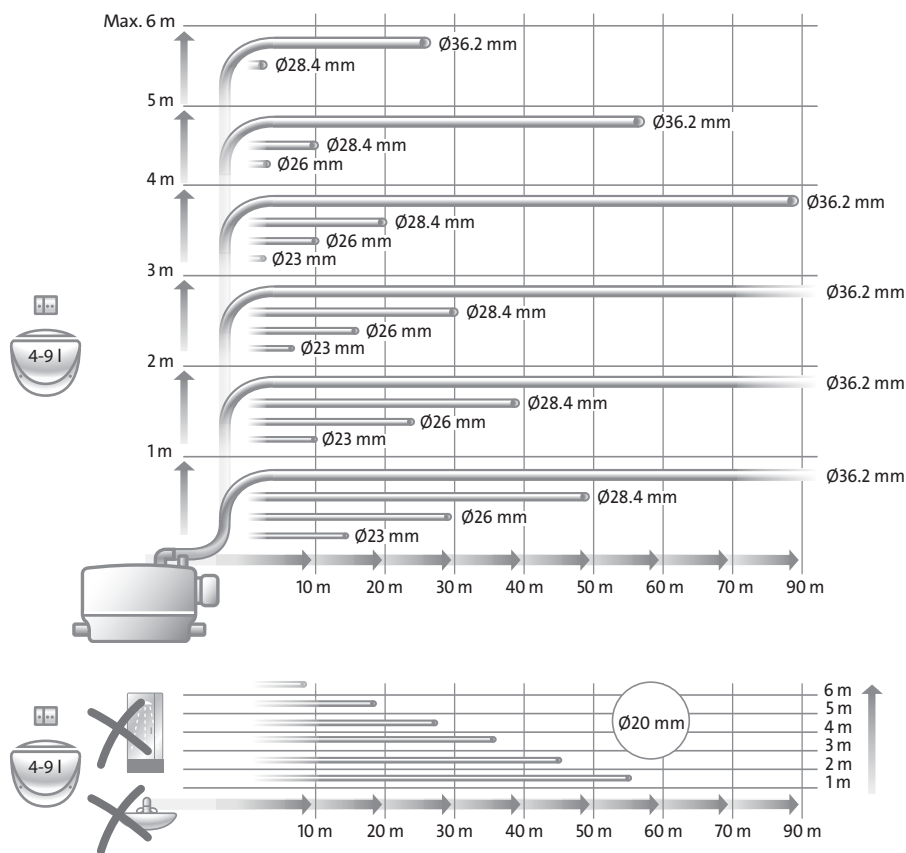
- Adjustable outlet and inlet connections ensure easy installation and replacement.

Easy maintenance and service

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

4.3 Sizing guide

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

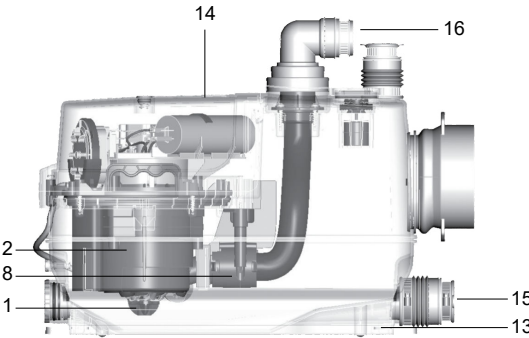
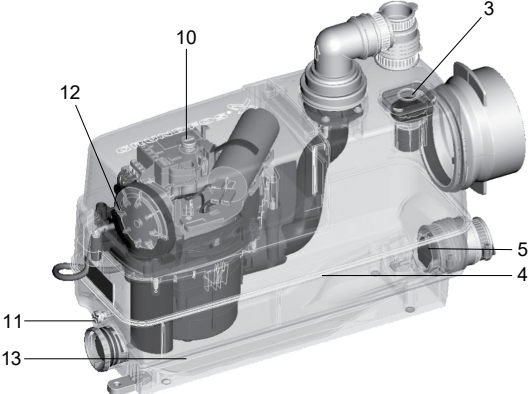
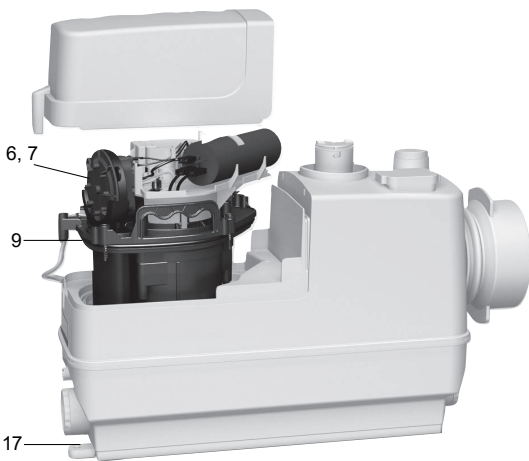
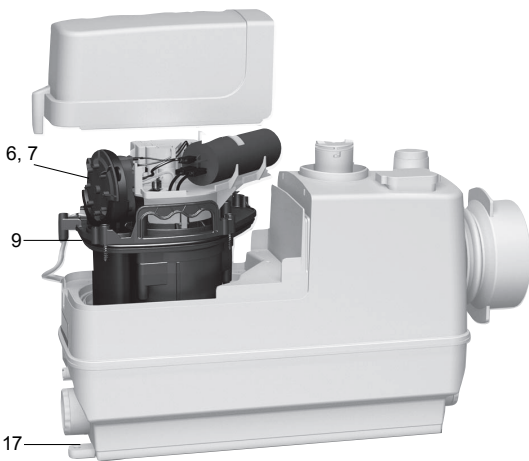


TM050374

Maximum lengths of vertical and horizontal outlet pipes

The figure above shows the maximum lengths of vertical and horizontal outlet 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.

4.4 Construction features

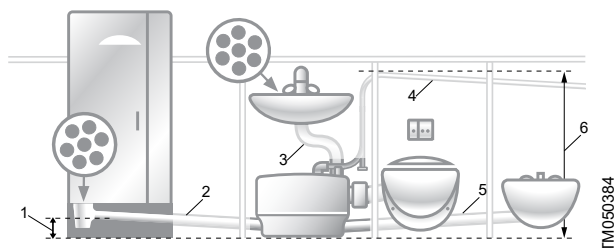
SOLOLIFT2 CWC-3	Description
	Pos. Operational reliability
	1 Cutter The powerful cutter's ability to easily handle feminine hygiene products or similar increases the reliability. The pump has self-vent valve for stable start.
	2 Motor The powerful high-torque motor features motor protection via a thermal switch and automatic restart. Three shaft seals and an additional V ring ensure long operational life.
	3 Vent valve Vent valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
	4 Tank Welded tank design which is pressure-tight up to 2.5 m water column.
	5 Non-return valves Non-return valves prevent back- and cross-flow to inlet pipes.
	Pos. Easy maintenance and service
	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.
	8 Auto coupling Self-adjusting auto coupling eases assembly.
	9 Screws All important screws are captive screws, which facilitates service work.
	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.
	12 Pressure switch Pressure switch control outside the tank, i.e. no moving parts and diaphragm in the wastewater.
	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.
	15 Inlet Eccentric, height-adjustable connectors for side inlets, i.e. in addition to the inlet at the top of the tank.
	16 Outlet Horizontal 360° turnable outlet incorporating a non-return valve.
	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.

4.5 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.

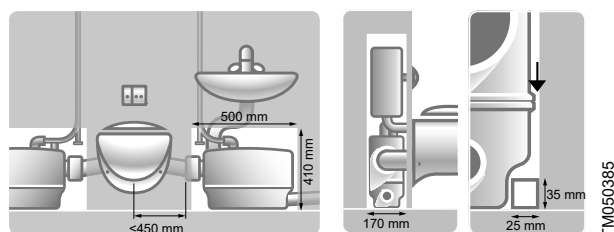


Example of installation

Pos.	Description
1	Min. 80 mm
2	Ø36/40/50
3	Ø36/40
4	Ø22/25/28/32/36/40
5	Ø36/40/50
6	Max. 6 m

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

The measurements in the figure below must be observed.



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 the figure above to ensure that the unit is accessible for service.

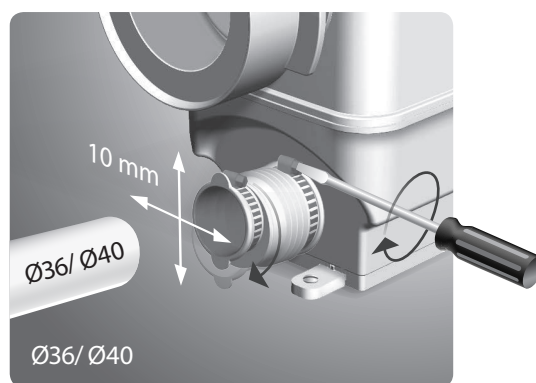
4.5.1 Connections

The turnable 360° outlet adapter can be fitted horizontally or vertically. The adapter incorporates a non-return valve. The outlet and inlet connections can be adapted to the following pipe diameters:

Connection	Outer diameter						
	Ø22	Ø25	Ø28	Ø32	Ø36 ⁴⁾	Ø40	Ø50
Outlet	•	•	•	•	(•)	•	-
Inlet at the top	-	-	-	-	(•)	•	-
Inlet from side ⁵⁾	-	-	-	-	(•)	•	•

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

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

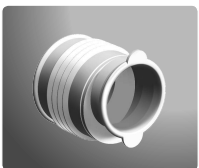


Height and side alignment possible when using Ø36/40 inlet pipes

4.6 Product numbers

Frequency	Plug	Sales region	Product number
50 Hz	Schuko	Europe	97775316
	CN plug	China	99478901
	AUS	Australia	97775326
	No plug	UK	97775331
60 Hz	No plug	Saudi Arabia	98622987

4.7 Accessories

Product	Description	Product number
Alarm device		
	Acoustic alarm in case of malfunction.	97772315
TM050367	Printed-circuit board to be pushed into an internal slot in SOLOLIFT2 CWC-3.	
Replacement hose		
	Flexible PVC hose with two clamps and an adapter for the outlet of SOLOLIFT2.	97772316
TM050377	Dimensions:	
	- Length: 500 mm - Inner diameter: Ø32 - Outer diameter: Ø38	
Adapter kit, inlet		
	Kit, second inlet Ø50/40/40.	97775335
TM050378		
Adapter ring, Ø36		
	Kit, adapter Ø36 UK. Suitable for outlet and inlet connections.	97775336
TM050379	Note: The adapter is included in the UK version.	

4.8 Technical data

4.8.1 Mechanical data

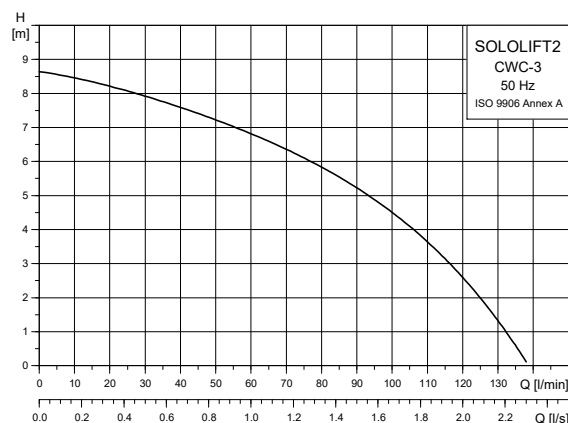
50 and 60 Hz

50 and 60 Hz	
Net weight	7.1 kg
Tank volume	9.0 litres
Flexible outlet 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 × Ø32/36/40 on the top 2 × 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)

4.8.2 Electrical data

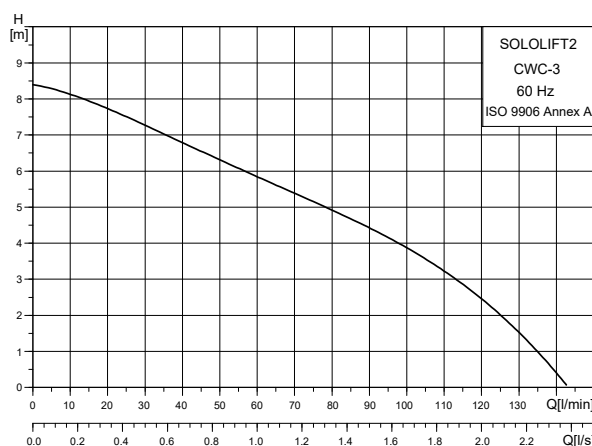
	50 Hz	60 Hz
Supply voltage	1 × 220-240 V -10% / +6%, 50 Hz	1 × 220 V -10 % / +6 %, 60 Hz
Power consumption, P ₁	Max. 620 W	Max. 650 W
Rated current	3.0 A	3.0 A
Power factor, cos φ	0.87 / 0.92	0.93
Speed	2800 min ⁻¹	3400 min ⁻¹
Enclosure class	IP44	IP44
Insulation class	F	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)	1.2 m, 0.75 mm ² (H05VV-F-3G)

4.8.3 Performance



TM049879

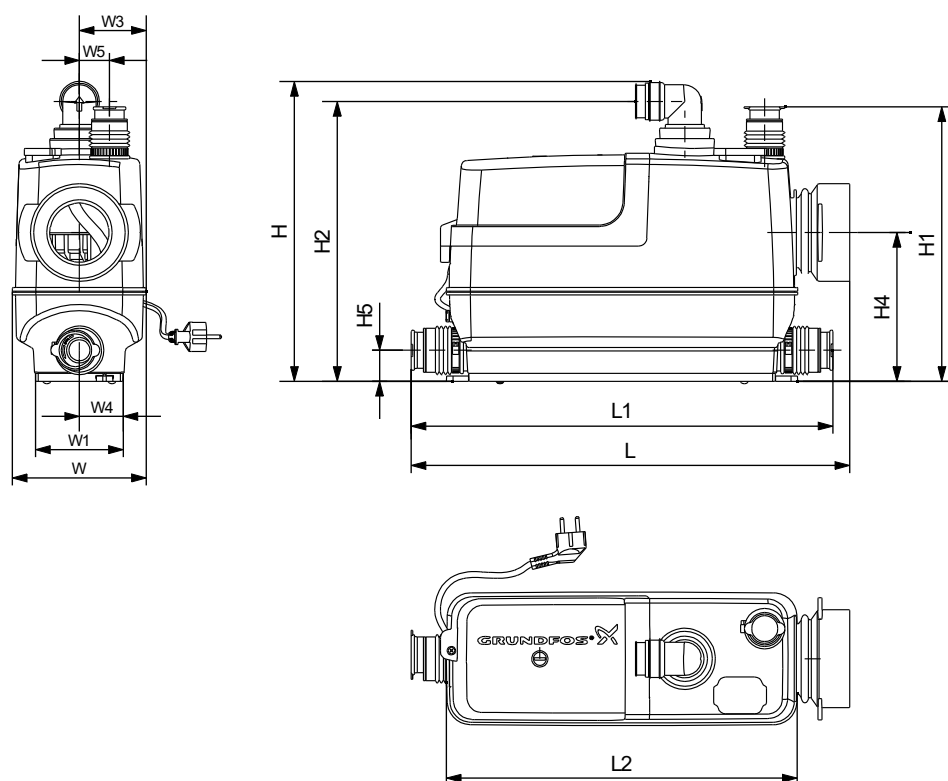
Performance curve for SOLOLIFT2 CWC-3, 50 Hz



TM061750

Performance curve for SOLOLIFT2 CWC-3, 60 Hz

4.8.4 Dimensions



TM049915

Dimensional drawings, SOLOLIFT2 CWC-3

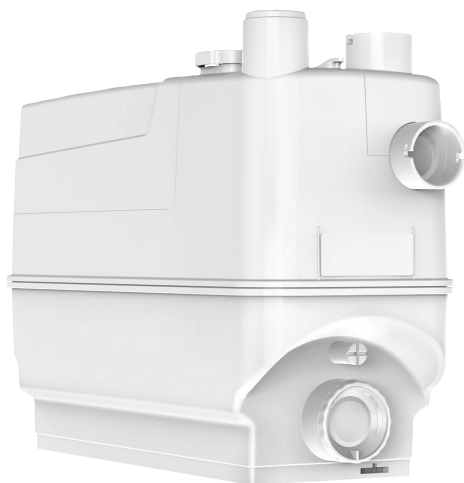
Pump type	Dimensions[mm]													Weights[kg]	
	L	L1	L2	W	W1	W3	W4	W5	H	H1	H2	H4	H5	Connection[m m]	Gross
SOLOLIFT2 CWC-3	538	509	431	164	110	82	55	45	368	337	344	183	38	32/36/40, 36/40/50, DN 100	9.7

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

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.



TM085237

SOLOLIFT2 C-3

5.1 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.



TM050388

Example of application

5.2 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 outlet 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 outlet and inlet pipes or to remove the unit for service.

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 outlet pipe diameters at a minimum self-cleaning velocity of 0.7 m/s.

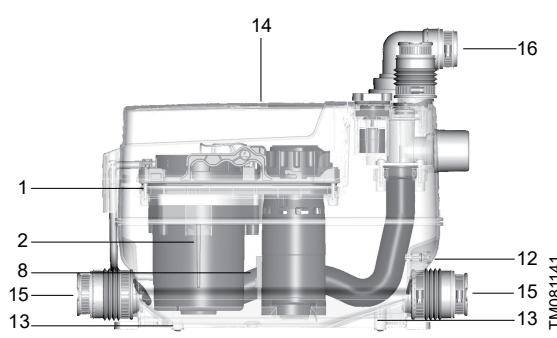
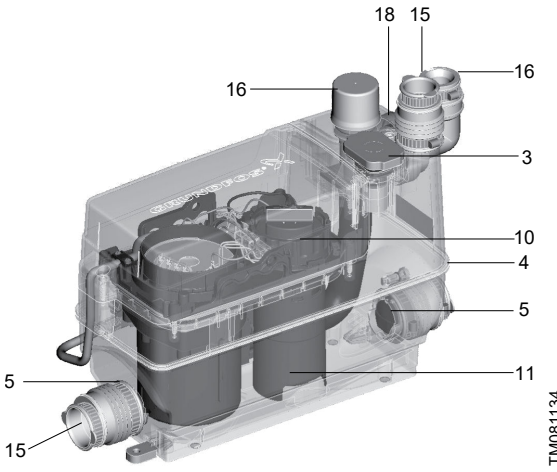
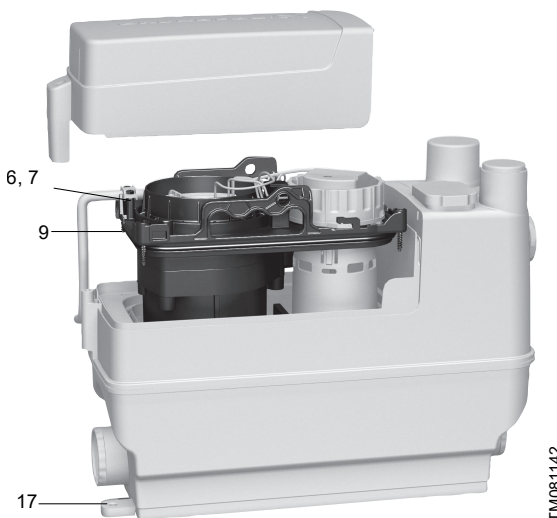
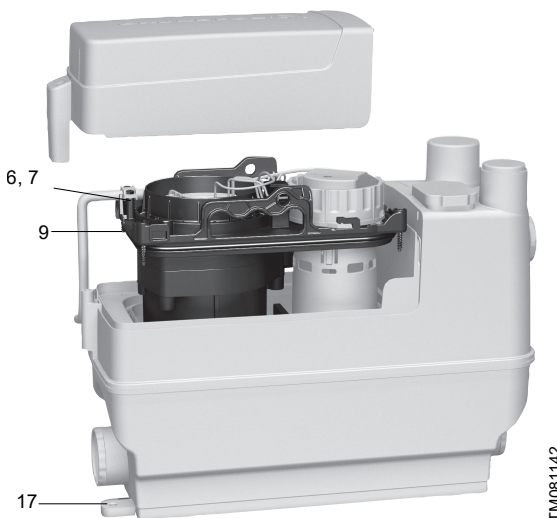


Pipe length and height in relation to inner pipe diameter and required outlet capacity

The figure above shows the maximum lengths and heights of outlet pipes in metres in relation to inner pipe diameter and outlet capacity of the unit. To ensure optimum operation, the total inflow must not exceed the outlet 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 outlet capacity exceeds 1.5 l/s, the noise level may increase. We recommend to choose a pipe diameter that ensures a outlet capacity below 1.5 l/s, if possible, when no outlet capacity above 1.5 l/s is required.

5.4 Construction features

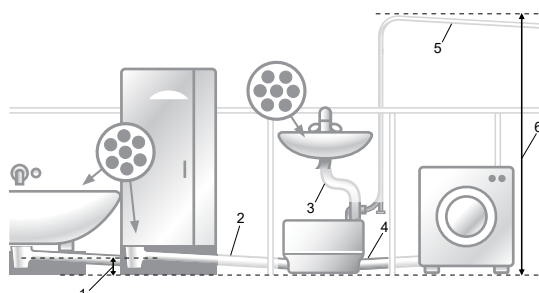
SOLOLIFT2 C-3		Description
		Pos. Operational reliability
		1 Motor The powerful motor enables pumping of grey wastewater at temperatures up to 90 °C from domestic and commercial washing machines and dishwashers. Motor protection by thermal switch with automatic restart. Three shaft seals and an additional V ring ensure long operational life.
		2 Free passage Vortex pump with a free passage of 20 mm and internal self-vent valve for stable start.
		3 Vent valve Vent valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
		4 Tank Welded tank design which is pressure-tight up to 2.5 m water column.
		5 Non-return valves Non-return valves prevent back- and cross-flow to inlet pipes.
		Pos. Easy maintenance and service
		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.
		8 Auto coupling Self-adjusting auto coupling eases assembly.
		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.
		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.
		12 Drain connection Separate tank drain function is available by connecting a drain hose.
		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 outlet 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.
		16 Outlet A turnable 360° adapter incorporating a non-return valve enables vertical or horizontal outlet direction for easy replacement.
		17 Feet for floor-mounting Feet for floor-mounting are easy to install.
		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.

5.5 Installation requirements

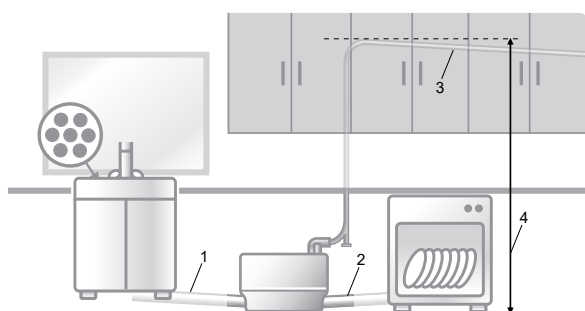
This section shows installation examples and describes the installation requirements. Installation is done quickly and easily by using flexible hose connectors with several adapter options for almost any pipe diameter.

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



TM090544

Pos.	Description
1	Min. 85 mm
2	Ø36/40/50
3	Ø36/40
4	Ø36/40/50
5	Ø22/25/28/32/36/40
6	Max. 6 m



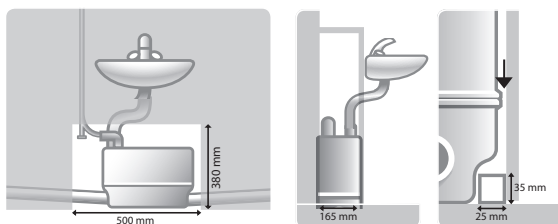
TM090545

Pos.	Description
1	Ø36/40/50
2	Ø36/40/50
3	Ø22/25/28/32/36/40
4	Max. 6 m

Examples of installation

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

The measurements in the figure below must be observed.



TM050393

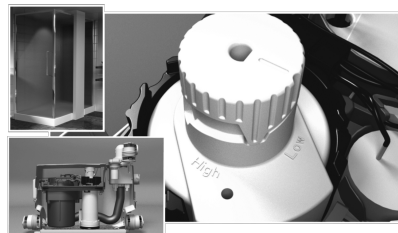
Measurements to be observed

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.

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.



TM065527



TM065528

Adjustment of the float switch

5.5.1 Connections



TM081068

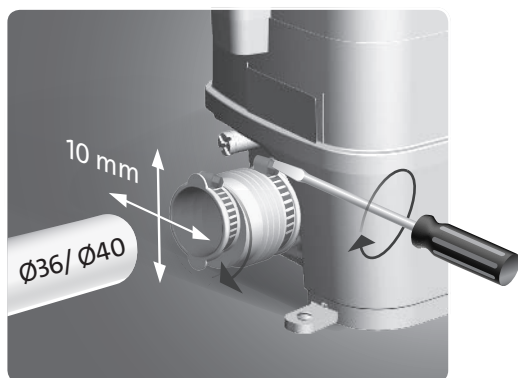
Horizontal or vertical outlet

The turnable 360° outlet adapter can be fitted horizontally or vertically. The adapter incorporates a non-return valve. The outlet and inlet connections can be adapted to the following pipe diameters:

Connection	Outer diameter						
	Ø22	Ø25	Ø28	Ø32	Ø36 ²⁾	Ø40	Ø50
Outlet	•	•	•	•	(•)	•	-
Inlet at the top	-	-	-	•	(•)	•	-
Inlet from side ³⁾	-	-	-	-	(•)	•	•

²⁾ Two adapters included for UK version. Also available as accessories.

³⁾ One connector is included. Further connectors available as accessories.



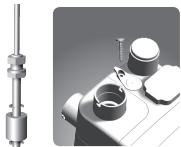
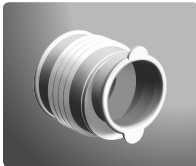
TM050487

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

5.6 Product numbers

Frequency	Plug	Sales region	Product number
50 Hz	Schuko	Europe	97775317
	CN plug	China	99478902
	AUS	Australia	97775327
	No plug	UK	97775332
60 Hz	No plug	Saudi Arabia	98622989

5.7 Accessories

Product	Description	Product number
Float switch		
	Magnetic float switch for an alarm device. Cable length: 10 m.	97775337
Replacement hose		
	Flexible PVC hose with two clamps and an adapter for the outlet of SOLOLIFT2. Dimensions: • Length: 500 mm • Inner diameter: Ø32 • Outer diameter: Ø38	97772316
Adapter kit, inlet		
	Kit, second inlet Ø50/50/40.	97775335
Adapter ring, Ø36		
	Kit, adapter Ø36 UK. Suitable for outlet and inlet connections. Note: The adapter is included in the UK version.	97775336

5.8 Technical data

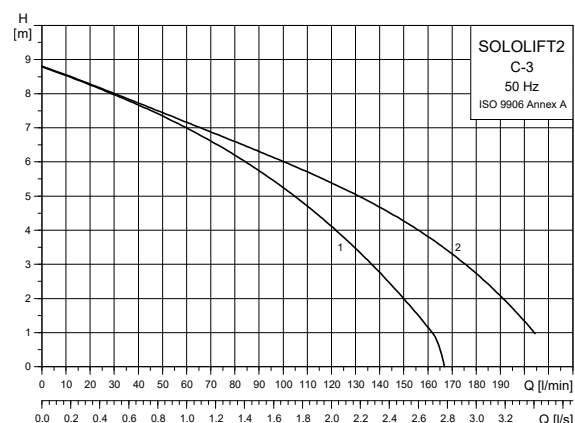
5.8.1 Mechanical data

50 and 60 Hz	
Net weight	6.6 kg
Tank volume	5.7 litres
Flexible outlet elbow	Ø22/25/28/32/36/40
Dimensions of possible inlet	1 × Ø32/36/40 on the top 2 × 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)

5.8.2 Electrical data

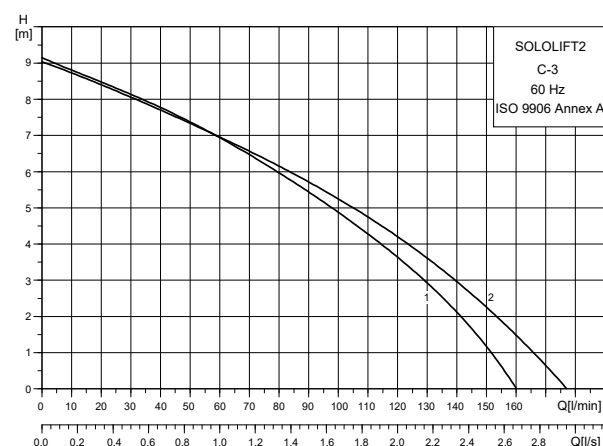
	50 Hz	60 Hz
Supply voltage	1 × 220-240 V -10% / +6%, 50 Hz	1 × 220 V -10 % / +6 %, 60 Hz
Power consumption, P ₁	Max. 640 W	Max. 630 W
Rated current	3.1 A	3.1 A
Power factor, cos φ	0.66 / 0.90	0.93
Speed	2800 min ⁻¹	3400 min ⁻¹
Enclosure class	IP44	IP44
Insulation class	F	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)	1.2 m, 0.75 mm ² (H05VV-F-3G)

5.8.3 Performance



TM049880

Performance curves for SOLOLIFT2 C-3, 50 Hz

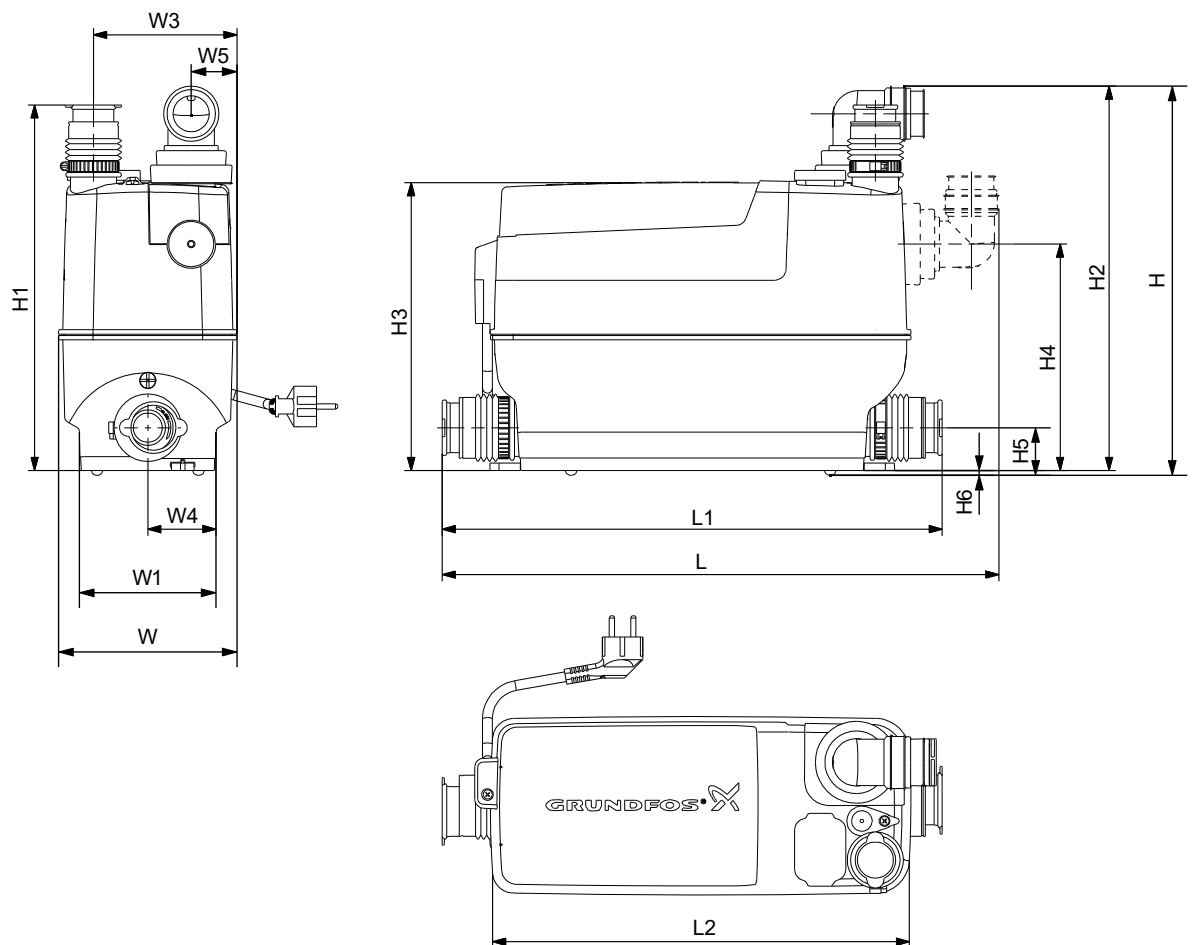


TM061749

Performance curves for SOLOLIFT2 C-3, 60 Hz

Pos.	Description
1	Horizontal outlet
2	Vertical outlet

5.8.4 Dimensions



Dimensional drawings, SOLOLIFT2 C-3

Pump type	Dimensions[mm]																Connection[mm]	Weights[kg]
	L	L1	L2	W	W1	W3	W4	W5	H	H1	H2	H3	H4	H5	H6			
SOLOLIFT2 C-3	493	441	375	158	120	127	60	41	344	325	317	259	201	38	4	32/36/40, 36/40/50	9.3	

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

TM049917

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.



TM085250

SOLOLIFT2 D-2

6.1 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.



TM050400

Example of application

6.2 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 outlet and inlet pipes or to remove the unit for service.

6.3 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 outlet pipe diameters at a minimum self-cleaning velocity of 0.7 m/s.



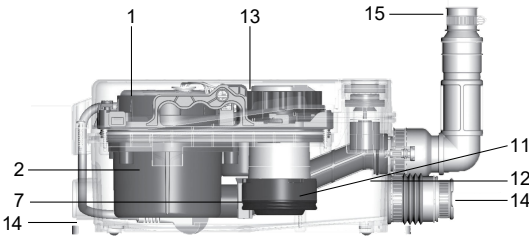
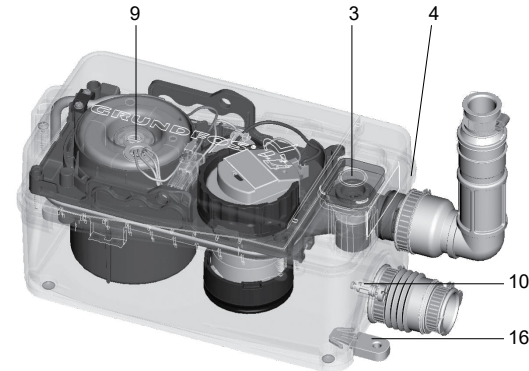
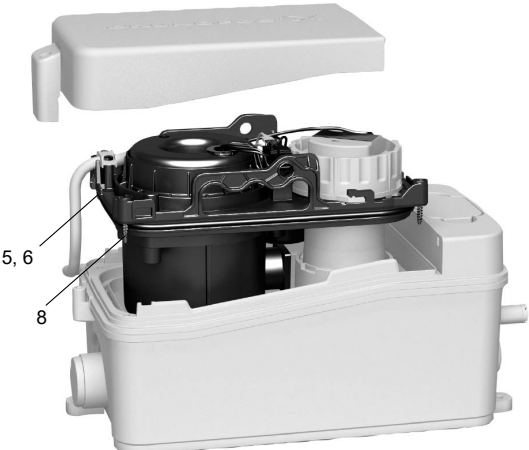
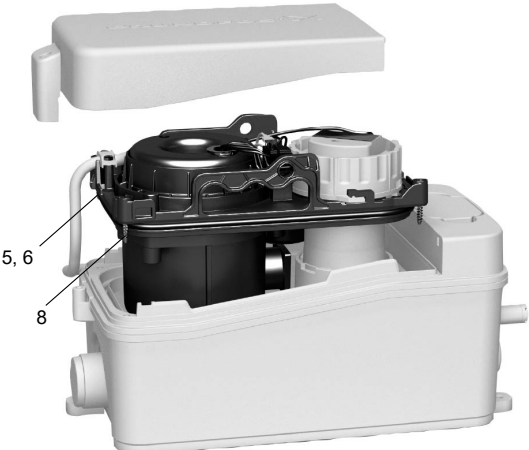
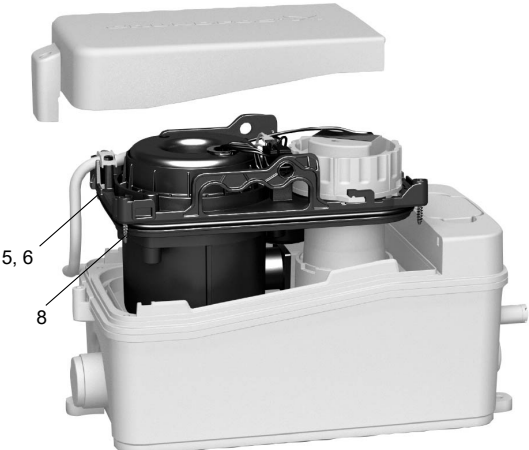
4 m					Ø28.4 mm
3 m	6				Ø20 mm
2 m	22	0.1			Ø28.4 mm
1 m	37	4.5	3		Ø20 mm
	52	71	10		Ø28.4 mm
		9.5			Ø20 mm
	0.25 l/s	0.5 l/s	1 l/s	1.5 l/s	

TM050527

Pipe length and height in relation to inner pipe diameter and required outlet capacity

The figure above shows the maximum lengths and heights of outlet pipes in metres in relation to inner pipe diameter and outlet capacity of the unit. To ensure optimum operation, the total inflow must not exceed the outlet 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.

6.4 Construction features

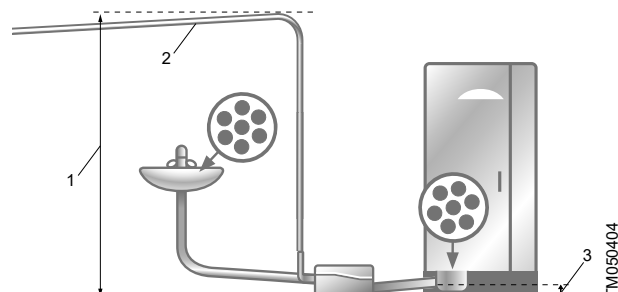
SOLOLIFT2 D-2		Description
		Pos. Operational reliability
		Motor 1 The powerful motor enables pumping of grey wastewater. Motor protection by thermal switch with automatic restart. Three shaft seals ensure long operational life.
		Free passage 2 Pump with a free passage of 10 mm and internal self-vent valve for stable start.
		Vent valve 3 Vent valve with carbon filter and overflow protection. Possibility of connecting a vent pipe, for example over roof.
		Tank 4 Welded tank design which is pressure-tight up to 2.5 m water column.
		Pos. Easy maintenance and service
		Access to components 5 Design with dry motor for easy and clean service.
		Compact block unit 6 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.
		Auto coupling 7 Self-adjusting auto coupling eases assembly.
		Screws 8 All important screws are captive screws, which facilitates service work.
		Anti-blocking 9 Manual anti-blocking function for deblocking of the motor. No dismantling required.
		Drain connection 10 Separate tank drain function is available by connecting a drain hose.
		Level switch 11 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.
		Bottom 12 Bottom design with strong chamfer to prevent sedimentation in corners.
		Pos. Easy installation and replacement
		Slim design 13 Very slim design that fits into the smallest cabinets/cupboards, for example under a washbasin.
		Connecting pieces 14 Two connecting pieces for side inlets.
		Outlet 15 Vertical, turnable outlet incorporating a non-return valve.
		Feet for floor-mounting 16 Feet for floor-mounting are easy to install.

Visit the animation of SOLOLIFT2 features on www.grundfos.com or local Grundfos homepages.

6.5 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.

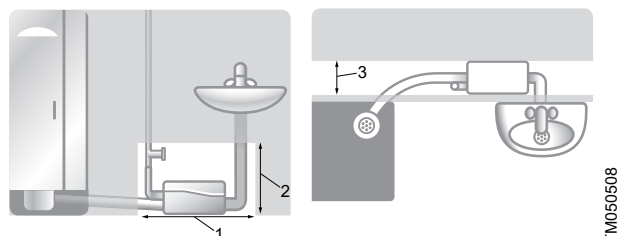


Pos.	Description
1	Max. 4.5 m
2	Ø22/32
3	Min. 70 mm

Example of installation

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

The measurements in the figure above and the figure below must be observed.



Pos.	Description
1	Max. 4.5 m
2	Ø22/32
3	Min. 70 mm

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.

6.5.1 Connections

The turnable outlet adapter incorporates a non-return valve.

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

Connection	Outer diameter						
	Ø22	Ø25	Ø28	Ø32	Ø36 ⁶⁾	Ø40	Ø50
Outlet	•	-	-	•	-	-	-
Inlet from side	-	-	-	-	(•)	•	-

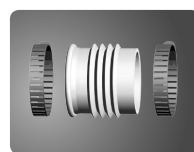
⁶⁾ Adapter included for UK version. Also available as an accessory.

6.6 Product numbers

Frequency	Plug	Sales region	Product number
50 Hz	Schuko	Europe	97775318
	CN plug	China	99478914
	AUS	Australia	97775328
	No plug	UK	97775333
60 Hz	No plug	Saudi Arabia	98622990

6.7 Accessories

Product	Description	Product number
Adapter kit, inlet		



TM050408

Kit, second inlet Ø40/40/32. 97775334

Adapter ring, Ø36



TM050409

Kit, adapter Ø36 UK.
Suitable for outlet and inlet connections.
Note: The adapter is included in the UK version.

97775336

6.8 Technical data

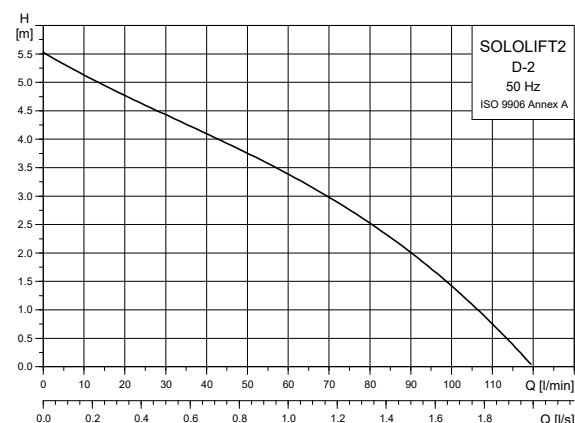
6.8.1 Mechanical data

50 and 60 Hz	
Net weight	4.3 kg
Tank volume	2.0 litres
Flexible outlet elbow	Ø22/32
Dimensions of possible inlet	2 × 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)

6.8.2 Electrical data

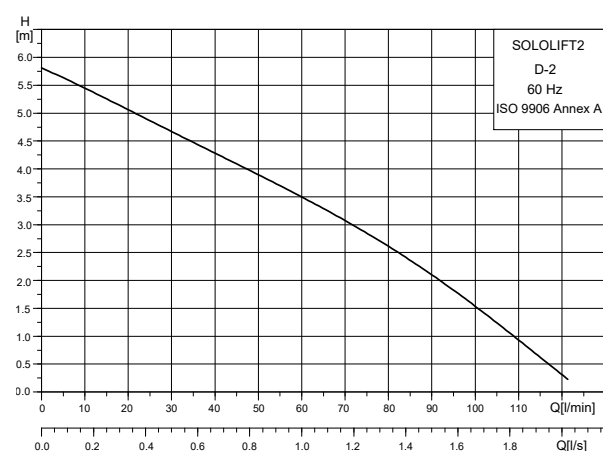
	50 Hz	60 Hz
Supply voltage	1 × 220-240 V -10% / +6%, 50 Hz	1 × 220 V -10 % / +6 %, 60 Hz
Power consumption, P ₁	Max. 280 W	Max. 290 W
Rated current	1.3 A	1.3 A
Power factor, cos φ	0.90 / 0.95	0.98
Speed	2800 min ⁻¹	3400 min ⁻¹
Enclosure class	IP44	IP44
Insulation class	F	F
Connecting cable	1.2 m, 0.75 mm ² (H05VV-F-3G)	1.2 m, 0.75 mm ² (H05VV-F-3G)

6.8.3 Performance



TM049881

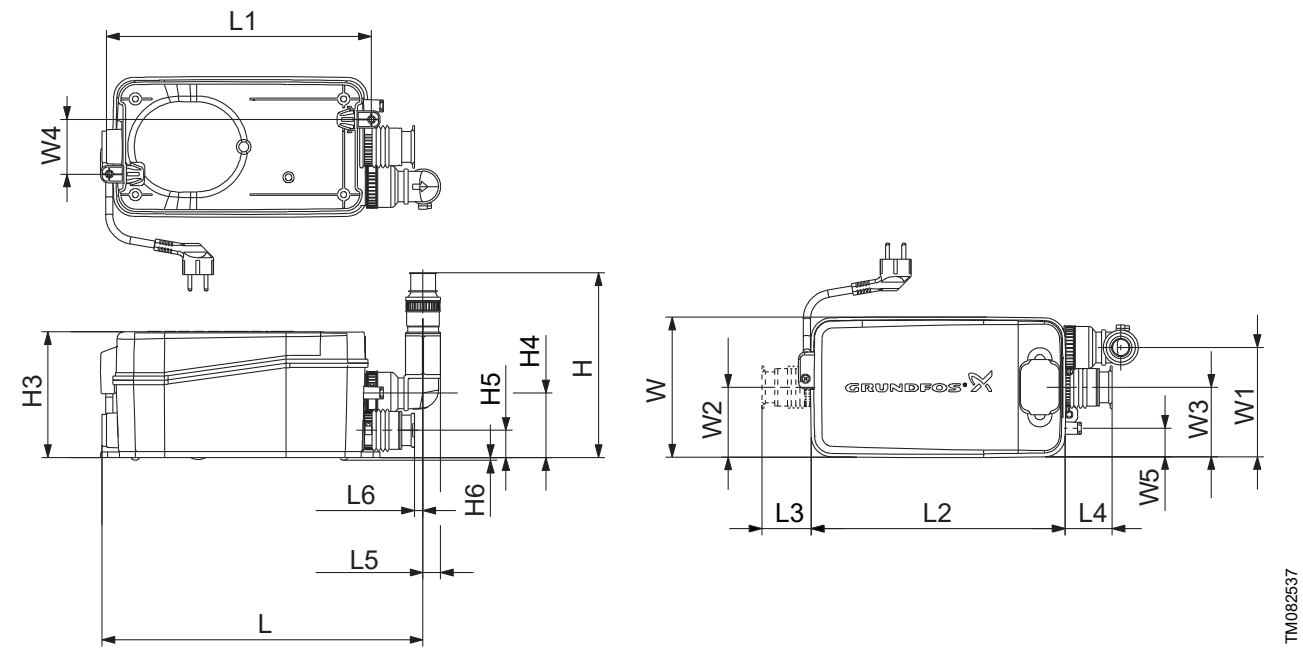
Performance curve for SOLOLIFT2 D-2, 50 Hz



TM061748

Performance curve for SOLOLIFT2 D-2, 60 Hz

6.8.4 Dimensions



Dimensional drawings, SOLOLIFT2 D-2

Pump type	Dimensions[mm]																		Connection [mm]	Weights[kg]
	L	L1	L2	L3	L4	L5	L6	W	W1	W2	W3	W4	W5	H	H3	H4	H5	H6		
SOLOLIFT2 D-2	376	307	299	57	54	21	10	165	129	82	82	64	34	217	147	76	32	3.2	36/40/50	6.3

7. Product range, overview

7.1 Product numbers

Overview of available products:

50 Hz

Product	Mains supply	Plug	Sales region	Outlet port	Cable length	Weights		Shipping volume	Product number
						Net	Gross		
					[m]	[kg]	[kg]	[m³]	
SOLOLIFT2 WC-1	1 × 220-240 V -10% / +6%, 50 Hz	Schuko	Europe	Ø22/25/28/32/36/40	1.2	7.3	9.2	0.052	97775314
		CN plug	China						99478897
		AUS	Australia						97775324
		No plug	UK						97775329
SOLOLIFT2 WC-3		Schuko	Europe	Ø22/25/28/32/36/40		7.3	9.3	0.052	97775315
		CN plug	China						9947890
		AUS	Australia						97775325
		No plug	UK						97775330
SOLOLIFT2 CWC-3		Schuko	Europe	Ø22/25/28/32/36/40		7.1	9.0	0.046	97775316
		CN plug	China						99478901
		AUS	Australia						97775326
		No plug	UK						97775331
SOLOLIFT2 C-3	Schuko	Europe	Ø22/25/28/32/36/40	6.5	8.1	0.036	97775317		
	CN plug	China					99478902		
	AUS	Australia					97775327		
	No plug	UK					97775332		
SOLOLIFT2 D-2	Schuko	Europe	Ø22/32/36	4.2	4.8	0.022	97775318		
	CN plug	China					99478914		
	AUS	Australia					97775328		
	No plug	UK					97775333		

60 Hz

Product	Mains supply	Plug	Sales region	Outlet port	Cable length [m]	Weights		Shipping volume [m ³]	Product number
						Net [kg]	Gross [kg]		
SOLOLIFT2 WC-1	1 × 220 V -10 % / +6 %, 60 Hz	No plug	Saudi Arabia	Ø22/25/28/32/36/40	1.2	7.3	9.2	0.052	98622960
SOLOLIFT2 WC-3		No plug	Saudi Arabia	Ø22/25/28/32/36/40		7.3	9.3	0.052	98622986
SOLOLIFT2 CWC-3		No plug	Saudi Arabia	Ø22/25/28/32/36/40		7.1	9.0	0.046	98622987
SOLOLIFT2 C-3		No plug	Saudi Arabia	Ø22/25/28/32/36/40		6.5	8.1	0.036	98622989
SOLOLIFT2 D-2		No plug	Saudi Arabia	Ø22/32/36		4.2	4.8	0.022	98622990

7.2 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 for the outlet of SOLOLIFT2. Length: 500 mm Inner diameter: Ø32 Outer diameter: Ø38	SOLOLIFT2 WC-1 SOLOLIFT2 WC-3 SOLOLIFT2 CWC-3 SOLOLIFT2 C-3	97772316
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.	SOLOLIFT2 WC-1 SOLOLIFT2 WC-3 SOLOLIFT2 CWC-3 SOLOLIFT2 C-3 SOLOLIFT2 D-2	97775336
Drain hose	Flexible PVC hose with two clamps and a plug. Applicable when the SOLOLIFT2 tank is to be drained for service. Length: 500 mm Inner diameter: Ø12 Outer diameter: Ø14.4	SOLOLIFT2 WC-1 SOLOLIFT2 WC-3	97789093
Extension pipe	Connecting a SOLOLIFT2 WC-1 or WC-3 to some toilet variants, such as Ifö, 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)

7.3 Technical data

50 Hz

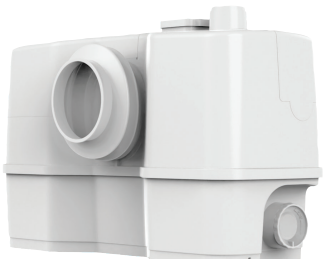
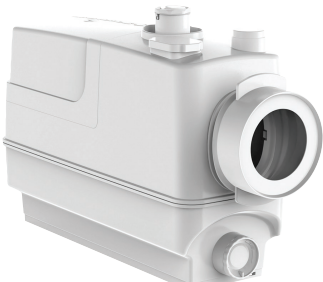
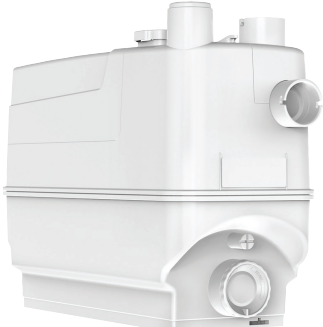
Product	Rated current [A]	Power (P1) [W]	Cos φ	Enclosure class	Insulation class	Speed [min ⁻¹]	Motor protection	Cable
SOLOLIFT2 WC-1	3.0	620	0.92	IP44	F	2800	Built-in thermal switch	0.75 mm ² (H05VV-F-3G)
SOLOLIFT2 WC-3	3.0	620	0.92					
SOLOLIFT2 CWC-3	3.0	620	0.92					
SOLOLIFT2 C-3	3.1	640	0.90					
SOLOLIFT2 D-2	1.3	280	0.95					

60 Hz

Product	Rated current [A]	Power (P1) [W]	Cos φ	Enclosure class	Insulation class	Speed [min ⁻¹]	Motor protection	Cable
SOLOLIFT2 WC-1	3.0	650	0.93	IP44	F	3400	Built-in thermal switch	0.75 mm ² (H05VV-F-3G)
SOLOLIFT2 WC-3	3.0	650	0.93					
SOLOLIFT2 CWC-3	3.0	655	0.93					
SOLOLIFT2 C-3	3.1	630	0.95					
SOLOLIFT2 D-2	1.3	290	0.98					

7.4 Scope of delivery

Overview of the included fittings:

Product	Fittings included on delivery
SOLOLIFT2 WC-1 	TM085256 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) 1 adapter (Ø36/40), only UK - Hose clamps (1 × Ø90, 4 × Ø32-50) 2 feet for floor-mounting - Screws and wall plugs
SOLOLIFT2 WC-3 	TM085260 1 elbow (Ø40 to Ø40-32) 1 adapter with built-in non-return valve 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 × Ø90, 4 × Ø32-50, 2 × Ø40-60) 2 feet for floor-mounting - Screws and wall plugs
SOLOLIFT2 CWC-3 	TM085244 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 (Ø25/32) 1 adapter (Ø28/32) 2 adapters (Ø36/40), only UK 1 drain hose 1 plug for drain hose - Hose clamps (1 × Ø90, 4 × Ø32-50, 2 × Ø40-60, 2 × Ø8-16) 2 feet for floor-mounting - Screws and wall plugs
SOLOLIFT2 C-3 	TM085237 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 1 drain hose 1 plug for drain hose - Hose clamps (4 × Ø32-50, 2 × Ø40-60, 2 × Ø8-16) 2 feet for floor-mounting - Screws and wall plugs
SOLOLIFT2 D-2 	TM085250 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 × Ø32-50, 2 × Ø40-60, 2 × Ø8-16) 2 feet for floor-mounting - Screws and wall plugs

8. Grundfos Product Center

Online search and sizing tool to help you make the right choice.

From the international view, you can select your specific country to view the product range available to you.

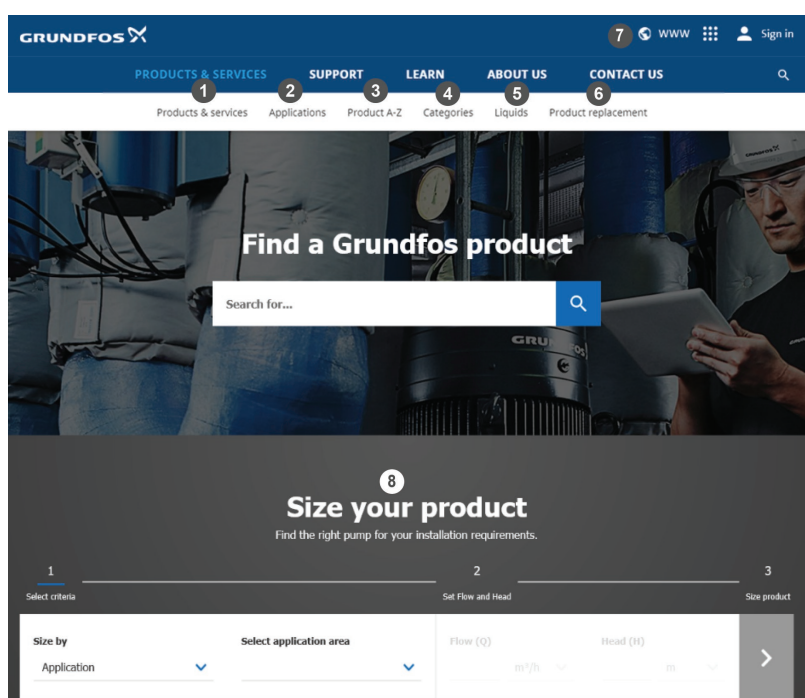
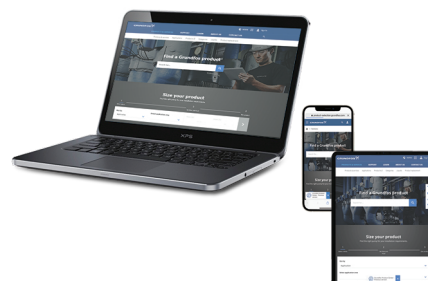
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Performance curves, technical specifications, pictures, dimensional drawings, motor curves, wiring diagrams, spare parts, service kits, 3D drawings, documents, system parts. The Product Center displays any recent and saved items - including complete projects - right on the main page.

Downloads

On the product pages, you can download installation and operating instructions, data booklets, service instructions, etc., in PDF format.



TM072383-1

When you select your country, you will see the menus below. Note that some menus may not be available depending on the country.

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3	Products A-Z enables you to look through a list of all the Grundfos products.
4	Categories enables you to look for a product category.
5	Liquids enables you to find pumps designed for aggressive, flammable or other special liquids.
6	Product replacement enables you to find a suitable replacement.
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