4. Sololift2 CWC-3

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

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



Fig. 20 Sololift2 CWC-3

Applications

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

Typical applications:

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



Fig. 21 Example of application

Features and benefits

Robustness and operational reliability

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

Easy installation and replacement

Adjustable discharge and inlet connections ensure easy installation and replacement.

Easy maintenance and service

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

Sizing guide

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

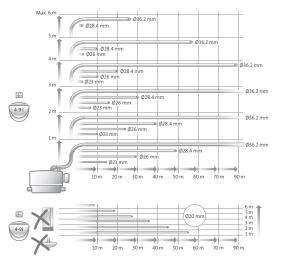


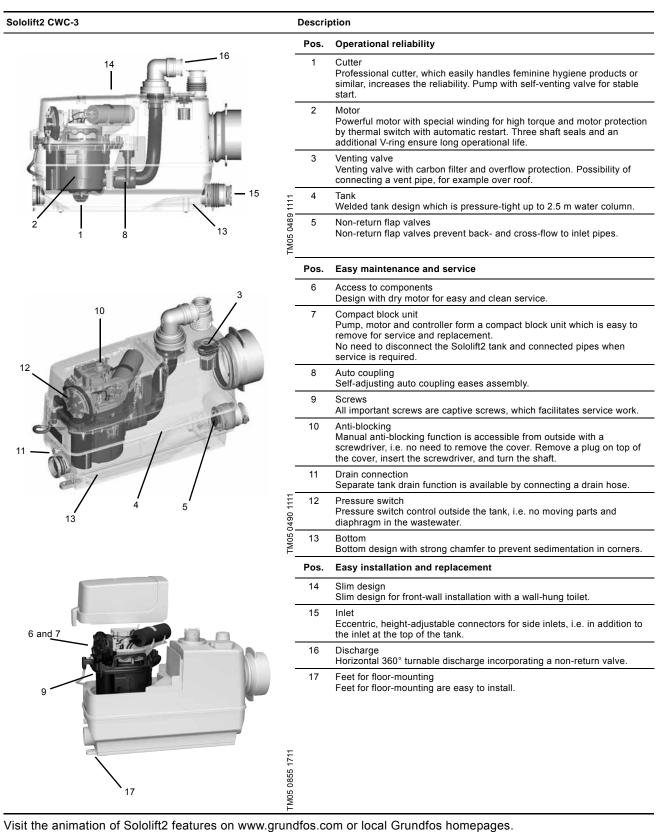
Fig. 22 Maximum lengths of vertical and horizontal discharge pipes

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.

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Construction features



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Sololift2 CWC-3

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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.

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

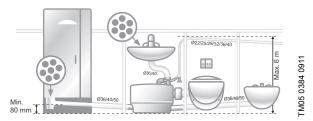


Fig. 23 Example of installation

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

The measurements in fig. 24 must be observed.

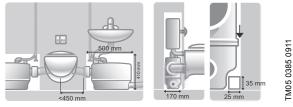


Fig. 24 Measurements to be observed

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

Connections

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

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

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

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

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

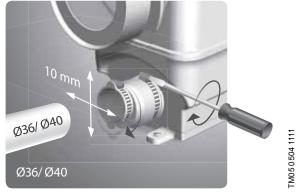


Fig. 25 Height and side alignment possible when using Ø36/40 inlet pipes

Product numbers

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

Accessories

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

Technical data

Mechanical data

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

Electrical data

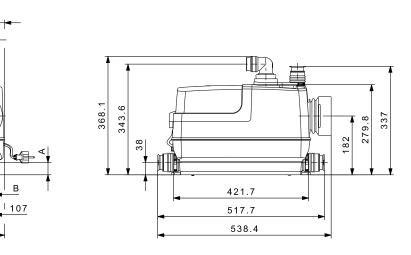
| Supply voltage | 1 x 220-240 V - 10 %/+ 6 %, 50 Hz | | |
|-----------------------|--|--|--|
| Power consumption, P1 | Max. 620 W | | |
| Rated current | 3.0 A | | |
| Power factor, cos φ | 0.87/0.92 | | |
| Speed | 2800 min ⁻¹ | | |
| Enclosure class | IP44 | | |
| Insulation class | F | | |
| Connecting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

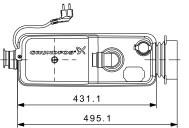
Dimensions

<u>82.1</u> 37

Æ

164.2





| Fig. 27 | Dimensional drawings, | Sololift2 CWC-3 | |
|----------|-----------------------|-----------------|--|
| 1 19. 21 | Dimensional drawings, | 00101112 0110-5 | |

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

Performance

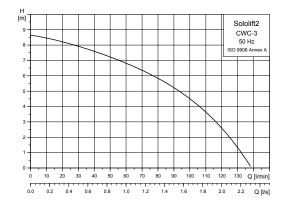


Fig. 26 Performance curves, Sololift2 CWC-3

Sololift2 CWC-3

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Marking and approvals

Description

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

VDE

- VDEEMV
- EMVTÜV/LGA
- GOST (AR56).

Marking



Approvals



Design and scope of delivery

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

- DN 100 connecting piece with flexible hose to the toilet.
- Additional inlet connecting piece at the top for pipes of Ø32 and Ø40 (Ø36 for UK version).
- Two additional side inlet connections. One connector with clamps is included (2 x Ø36 inserts for discharge and inlet are included in the UK version).
- Two side inlet connections with integrated backflow flap valves.
- Venting valve with carbon filter, overflow protection and integrated adapter for a Ø20 vent pipe.
- Inner pipework with auto coupling to the pumpmotor unit.
- One pump-motor unit fixed to the tank with four captive screws. The pump discharge to the inner pipework of the tank is fixed to the auto coupling from the inner pipework of the tank.
- 1.2 m cable and plug. See *Technical data*, page 19.
- Flexible adapter hose for inlet pipes of Ø32 and Ø40 (Ø36 for UK version).
- Feet for floor-mounting including screws and expansion anchors.
- Non-return valve.
- Discharge adapters from Ø22 to Ø40 (plus Ø36 for UK version).
- Drain hose with clamps and plug.