

Installation and Operating Instructions

For model WL600B (600w, 110V, 60Hz)

WL750B (750w, 110V, 60Hz)

CAUTION: Before installation, check the installation and operating instructions carefully. The installation and operation should also be in strict accordance with local regulations and plumbing codes.

Attention!

Ask a licensed plumber to install this product.

If the appliance or the supply cord is damaged, it must be repaired by manufacturer, or its service agent, or a qualified person.

Make sure the ground circuit on the plug is connected properly before installation, the product must be grounded.

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be done by children.

1. General Description

WL600B/WL750B is a small, compact automatic pump lift station suitable for pumping of wastewater to a nearby sewer in private dwellings where wastewater cannot be led directly to the sewer by means of a natural down-ward slope. It is using a unique design that is patented technology to improve the reliability and service life.

1.1 Applications

WL600B/WL750B is typically used for:

- A toilet, shower and/or sink in basements below sewer level and
- A toilet, shower and/or sink installed in connection with the renovation or modernization of existing buildings, where the location may be remote from the main sewer pipe so that a natural slope cannot be established.

WL600B/WL750B is only suitable for pumping wastewater from a sink or shower as well as sewage water from a toilet containing toilet paper and feces. The pumping of liquids containing other material may void warranty.

1.2 Acceptable pumped liquids

Wastewater from a sink or shower as well as sewage water from a toilet containing toilet paper and faces.

Liquid temperature: Maximum 45°C

Ordinary liquids for cleaning of the units connected.



pH value: 4 to 10.

Important note:

WL600B/WL750B must not pump:

- Strong chemicals or solvents
- Objects such as plastic, cardboard, sanitary towels, diapers, hair, tampons, metal objects (clips, hair pins etc.), stones, building materials, floor cloths and condoms.

Basically, anything other than wastewater and feces from sink or toilet.

2. Product Description

The **WL600B/WL750B** tank is made of light plastic material with an easy-to-clean surface. Installed correctly, the **WL600B/WL750B** is almost maintenance-free. **WL600B/WL750B** has two connections besides the toilet connection.

A cutter system chops up objects in the wastewater entering the tank through the toilet connection.

WL600B/WL750B is equipped with a water level switch for automatic start and stop of the pump. See start and stop levels in Section 7 Technical data.

Connecting cable: 1.2 m cable H05VV-F3G 0.75 mm² with plug.

The tank is vented through a carbon filter in the vent valve in the top cover. If necessary, it can be connected to a vent pipe through the vent hole by drilling a hole on the cover of the vent valve to exhaust to outdoor.

WL600B/WL750B Weight: Net weight: 6.5 Kg, Gross weight: 7.5 Kg
See Fig.1.

2.1 Dimensions

The following dimensional sketches show the dimensions of **WL600B/WL750B**. See Fig.3

2.2 Accessories Included

The following parts will be supplied with **WL600B/WL750B**. See Fig.2

Code	Description	Application	Q'ty	Remark
A	Elbow	For connection discharge outlet	1	Φ32mm,Φ40mm/Φ38mm
B	Sleeves	For connection 2 sides inlets	2	Φ46mm/Φ40mm
C	Stainless Steel Clips	Sleeves and discharge elbow	3	Different Sizes
D	Floor Fitting	Installed WL600B/WL750B on the floor	2	
E	Stainless Steel Screws	For floor fitting	2	

F	Plugs	For inlet	2	Assemble
---	-------	-----------	---	----------

3. Installation

The installation must be carried out according to local regulations and directives. **WL600B/WL750B** must be installed in the same room as the units (sink, toilet) that are being connected to it.

3.1 Electrical Installation

The electrical installation must only be carried out by trained personnel.

WL600B/WL750B must be connected to a voltage supply in compliance to the nameplate.

Caution: The installation must include a grounding circuit breaker for protection against fault currents. This ensures protection when using a plug with a properly grounded connection.

The pump station must be protected against water splashes or submersion in accordance with regulations.

3.1.1 Wiring diagram see Fig. 4

3.1.2 Motor protection

Caution: In case of overheating, a thermal overload switch turns off the motor and turns it back on when the motor has cooled sufficiently.

3.2 Mechanical Installation

The floor fitting D must be attached to the unit and the floor to prevent the case from lifting up if the room is flooded.

WL600B/WL750B should be installed with adequate access.

3.2.1 Application sketch see Fig.5

3.2.2 Pipework

See Fig.6

The following drawing shows the maximum length of vertical and horizontal discharge pipes.

It is recommended that the first part of the discharge pipe is vertical.

All horizontal pipes must have a grade:

Discharge pipe: maximum 1% grade

Inlet pipe: maximum 3% grade

If the discharge pipe is more than 10 meters long, a pipe one size bigger must be used after 10 meters, for example: use a 28mm diameter pipe for the first 10 meters and then 32mm diameter pipe after that.

The discharge pipe must be taken above the back-flow level (i.e. main sewer level). The pipework from this point must be made with pipe sizes of at least 40mm.

3.2.3 Siphoning

If the connection to the sewer is below the bottom of the WL600B/WL750B, it is advisable to install a vent valve to prevent siphoning.

If the last pipe section after a horizontal discharge pipe is vertical, it must be two sizes bigger than the horizontal pipe. See Fig.7.

3.2.4 Connection to toilet

WL600B/WL750B should be used for a toilet with horizontal outlet according to EN 33 or EN 37. The toilet must use at least 6 liters per flush.

Push the pump unit against the back of the toilet with the inlet facing the discharge pipe.

Pull the connection sleeve over the toilet discharge pipe so that the pipe is covered.

Fit the clip C into place and make sure that the sleeve is in the correct position.

The remaining drainage items (e.g. sink, bidet or shower) relate to a \varnothing 40mm PVC pipe, sleeve B and clip C to the additional inlets both sides of **WL600B/WL750B**.

The additional side inlets (DN 40) must be positioned above the highest possible water level (180mm). For this reason, the construction level (base) of the shower basin must lie at least 180mm higher than the construction level of the **WL600B/WL750B**.

When both side inlets are not connected, please use the plugs to seal them. First, you need to lubricate the grease on the seal rings of plugs. Then to align the mark on the end face of plug to the mark.

To avoid undue noise, **WL600B/WL750B** can be placed at a distance of 10 mm from the wall and on a vibration-dampening base.

3.2.5 Connection of discharges pipe

The discharge pipe must be of a material suitable for raw sewage and have a correct diameter.

The one-way valve in the tank prevents back flow from the discharge pipe.

It is advisable to use a minimum 25mm discharge pipe according to EN 12050-3

Fit the discharge elbow A using clip B

Adapt the discharge pipe. If necessary, using reducer E.

It is advisable to fit a ball valve at the bottom of the vertical pipe section for use in case of repair of the discharge pipe.

4. Start-up

- Check that the installation is correct.
- Plug in the power supply and ensure the circuit breaker for that plug is switched on.
- Check that all pipes and connections are tight.
- Flush the toilet and check that the pump starts and stops correctly.

If the pump starts, **WL600B/WL750B** is ready for use.

If the pump does not start, don't flush the toilet again. And recheck the above steps and installation is correct.

Note: the toilet must not be used until **WL600B/WL750B** has been connected correctly.

5. Maintenance

WL600B/WL750B is practically maintenance-free. However, regular use and cleaning will ensure faultless operation and a long operating life.

To prevent unnecessary pumping, it should be checked that the toilet cistern and possible water taps are tight.

5.1 Clean

WL600B/WL750B is normally kept clean through regular flushing of the toilet.

For systems which are used rarely, occasional internal cleaning is recommended which is performed as follows:

- Unplug the unit or switch off the power source.
- Put detergent into the toilet bowl and flush.
- Let the detergent work for approximately five minutes.
- Plug in the unit or switch on the electricity supply and flush the toilet.
- When **WL600B/WL750B** has finished pumping, flush once again.

5.2 Periods of non-use

If the **WL600B/WL750B** is not going to be used for a long period, it is recommended to flush twice with clean water and turn off the water supply to all units connected.

5.3 Frost protection

It is advisable to make this pump station frost-proof if there is a risk of frost, e.g. in a weekend cottage during the winter. Empty the tank, see periods of non-use or add antifreeze.

6. Technical Data

Model	Supply Voltage	Power Consumption	Power Factor	Insulation Class	Speed
WL600B	110V ~ 60Hz	600 W	0.8	155 (F)	3450 RPM
Sound Pressure Level	Enclosure Class	Start Level	Stop Level	Max. Flow	Max. Lift
<45 db (A)	IP 55	65mm	35mm	130L/min	9m

Model	Supply Voltage	Power Consumption	Power Factor	Insulation Class	Speed
WL750B	110V ~ 60Hz	750 W	0.85	155 (F)	3450 RPM
Sound Pressure Level	Enclosure Class	Start Level	Stop Level	Max. Flow	Max. Lift
<45 db (A)	IP 55	80mm	30mm	150L/min	11m

7. Disposal

Disposal of this product or parts of it must be carried out according to the following.

1. Use the local public or private waste collection service.



Meaning of crossed -out wheeled dustbin:

Do not dispose of electrical appliances as municipal waste.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain.

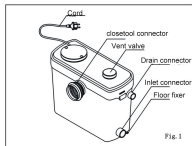


Fig. 1



Fig. 2

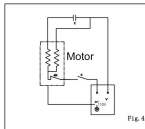


Fig. 4

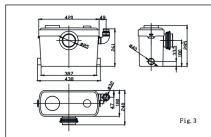


Fig. 3

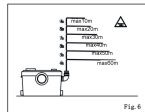


Fig. 6

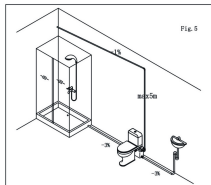


Fig. 5

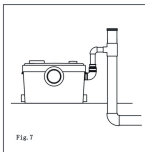


Fig. 7