PermaSEAL

Foul Sump Station



Description

PermaSEAL Foul Sump Station is a packaged, single-pump station for collecting and discharging foul and grey water from basements and ground floor extensions.

Supplied with an HDPE chamber, internal pipework and a D10SA foul vortex pump, the station is suitable for applications such as a basement bathroom and utility room.

For kitchen applications, fit a grease trap upstream of the station. Do not connect sinks fitted with macerator-type waste disposal units.

This station is not designed to collect groundwater from a cavity drain membrane system. Specify a separate groundwater pumping system for this purpose.

Below-Ground Use

The HDPE chamber is designed for below-ground installation and can withstand the hydrostatic forces encountered in high water table conditions when correctly installed.

Features

- Packaged foul water pumping system
- D10SA foul vortex pump supplied
- 273 L total chamber volume
- 137 L storage volume below inlets
- Three 110 / 160 mm inlet spigots
- 310 x 310 mm clear access opening
- Designed for below-ground installation

Technical Details

Chamber	Technical Details
Chamber material	HDPE
Total volume	273 L
Volume below inlets	137 L
Chamber diameter	660 mm
Overall width	902 mm (across spigots)
Chamber depth	800 mm
Clear access opening	310 x 310 mm
Fixed inlets	3 x 110 / 160 mm
Discharge connection	2 in / 50 mm BSP
Internal pipework	2 in / 50 mm BSP
Cable duct	50 mm
Vent connection	50 mm

Pump Details

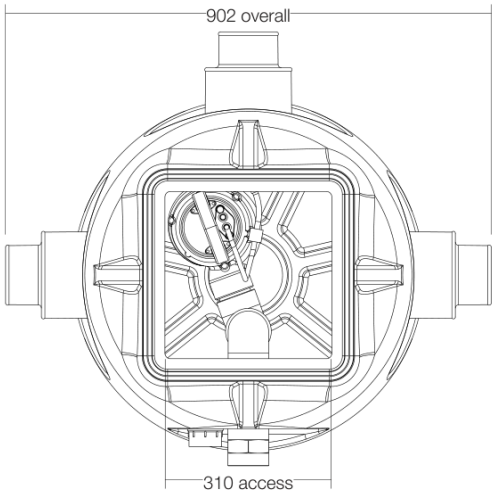
Pump	Technical Details
Pump model	D10SA
Power supply	230 V, single phase
Motor output (P2)	0.75 kW
Full load current	5.88 A
Fused spur	13 A, non-switched
RCBO rating	16 A
Pump cable	10 m
Max. liquid temperature	35°C

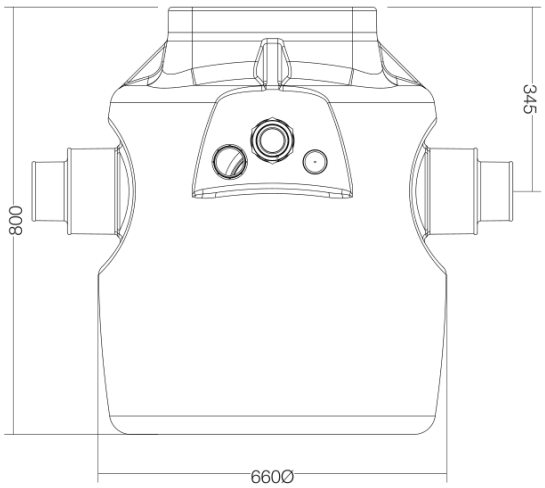
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Dimensions





Installation

Install the chamber on a concrete base with a concrete surround or reinforced concrete enclosure designed for the site conditions. Fill the chamber with water before backfilling to prevent flotation.

Connect the required inlet pipework, a 50 mm discharge to the gravity drain, and separate 50 mm cable duct and vent connections.

Vent to the same standard as a soil vent pipe. Do not use an air admittance valve.

Position the top of the chamber no more than 500 mm below the finished floor level. Maintain permanent access and fit a double-sealed access cover suited to the floor finish. The cover is not supplied.

Maintenance

Arrange inspection and servicing by a qualified engineer at least annually. Where the pump operates frequently, increase the service frequency. A six-monthly interval is recommended.

Keep the chamber and access cover permanently accessible. Refer to the full installation instructions before installation and servicing.

Cable Routing

The standard 10 m pump cable allows a cable duct run of up to 6 m. Longer runs require a correctly specified cable extension.

Pump Performance

Flow rate	Head
3 L/s	6.6 m
4 L/s	5.6 m
5 L/s	4.5 m
6 L/s	3.7 m
7 L/s	1.7 m

Select the duty point to suit the required flow and the total system head, including pipework losses.

High-Level Alarm

A high-level alarm is recommended to alert occupants if water in the chamber rises above the normal operating level. The alarm is an optional extra.

Health and Safety

Installation requires competent building, plumbing and electrical skills. Electrical connections must be made by a competent electrician. Isolate the electrical supply before installation or servicing.

Use a suitable risk assessment, protective equipment and hygiene procedures when working with foul water.

Further Information

Read this datasheet with the full installation instructions. Contact Permagard for specification advice.

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