



HYDROJACK 75

Automatic Wastewater Lifting Station

HYDROJACK 75

Automatic Wastewater Lifting Station

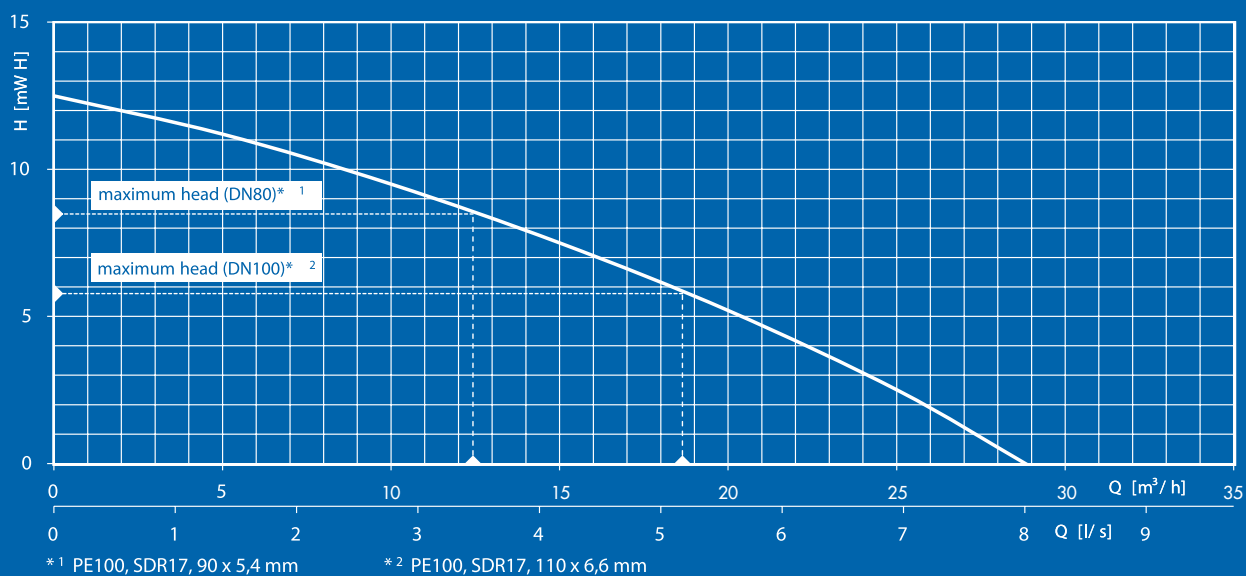


* + accessories reducers (DN40 Ø40, DN50 Ø50, DN65 Ø75, DN80 Ø90)

APPLICATION

- Hygienic collection and pumping of domestic waste water from a kitchen, bathroom, cellar and garage
- Suitable for grey and black water
- Building dewatering to improve the reliability of prevention of backwash from the sewer and to pump away sewage where the source is below the backwash level
- Automatic and manual emptying
- Smell- and flood proof unit
- Quality lifting station in full compliance with standard DIN EN 12050-1
- Attractive design which also suits an installation where the unit is visible

PERFORMANCE CURVE



GENERAL INFORMATION

Volume of tank	Inflow height horizontal	Inflow height vertical	Solid passage	Venting	Dimension of inlet	Discharge
75 litre	2 x 180 mm 1 x 225 mm	1 x 385 mm	50 mm	DN65 – 75 mm	DN100 – 110 mm	DN80 – 90 mm

ELECTRICAL DATA

Mains connection	Voltage range	Motor power	Nominal speed	Maximum current	Power cable length from control unit	Power cable length from control unit to lifting station
1~230V 50Hz	207– 253 V	P2 approx. 750 W	2850 rpm	6.7 A	approx. 4.0 m	approx. 4.0 m

Technical drawings of the 1000W 24V DC Motor showing three views with dimensions:

- Rear View:** Shows the motor's rear profile. Dimensions include a total width of 275, a mounting flange diameter of 180, a central shaft diameter of 225, and a total height of 495.
- Top View:** Shows the motor's top profile. Dimensions include a total width of 550, a total height of 550, a mounting flange diameter of 200, and a central shaft diameter of 150.
- Side View from left:** Shows the motor's side profile. Dimensions include a total height of 385, a mounting flange diameter of 180, a central shaft diameter of 225, and a base width of 225.

This technical diagram illustrates the installation of a sewage lifting station within a room. The room contains a washing machine, a sink, a potted plant, and a toilet. The lifting station is shown with its pump unit and a vertical discharge pipe. Key features and dimensions include:

- Discharge Pipe:** The vertical pipe is labeled "above roof airing". It extends to a height marked "max. backflow level".
- Horizontal Discharge:** The pipe turns horizontally to the right, discharging into a circular sewer. The sewer level is indicated by a triangle and the text "sewer level".
- Room Dimensions:** The distance from the toilet to the lifting station is marked as "max. 500 mm". The height from the floor to the toilet's outlet is marked as "180 mm".
- Connection:** A dashed line indicates the connection from the sink's trap to the lifting station, labeled "to the lifting station".

TECHNICAL DATA

General

- Unit is ready for "Plug & Play"
- Flood proof
- With built-in non return valve
- Long life tanks due to high quality components
- All tools needed for installation are supplied with the unit
- Adaptor for inlet sizes from DN40 to DN100 supplied with the unit
- User-friendly design with all hydraulic components on one platform
- All fasteners made of stainless steel
- Connection options for a range of inlets and quick connection to the discharge line

Pump

- Sewage pump with vortex impeller of solid cast iron
- Free solids passage 50 mm
- Can be run dry
- Mechanical seal with oil reservoir which can be checked for correct functioning
- Stainless steel motor housing
- Robust bearings

Tank

- PE tank with long operating life and resistant to chemicals
- A Minimum of residues formation thanks to a floor form designed for efficient emptying
- Can also be placed on uneven surfaces
- Resistant to floating and easy installation by use of anchor bolts
- Ergonomic transport and fitted with lifting handles for easy manoeuvrability
- Optimised tank dimensions for tight locations and for easy transport and installation
- Useful volume up to 75 litres

Level control

- The level control function is completely outside the tank
- Reliable operation even where the effluent contains high proportions of grease or oil thanks to contactless level control
- Status LED on each sensor
- Contactless level measurement to industry standard

Non Return Valve (NRV)

- Use of standard components to industry standards
- Compact design

OPTIONAL

Control functions

- The unit can be expanded by means of intelligent controls smartSCADA to smartmachine
- Machine to machine communication (M2M)
- Mobile access to the unit via mobile phone
- The capability of access by mobile phone is already installed in each unit (optional activation possible at any time)
- Intelligent evaluation of level and operating status
- Connection of an external evaluation unit by means of potential free contacts
- Online portal for monitoring of individual units or a larger number of units in, for example, a housing estate
- Condition monitoring/plant availability monitoring
- Intelligent micro-processor control
- Automatic maintenance indication

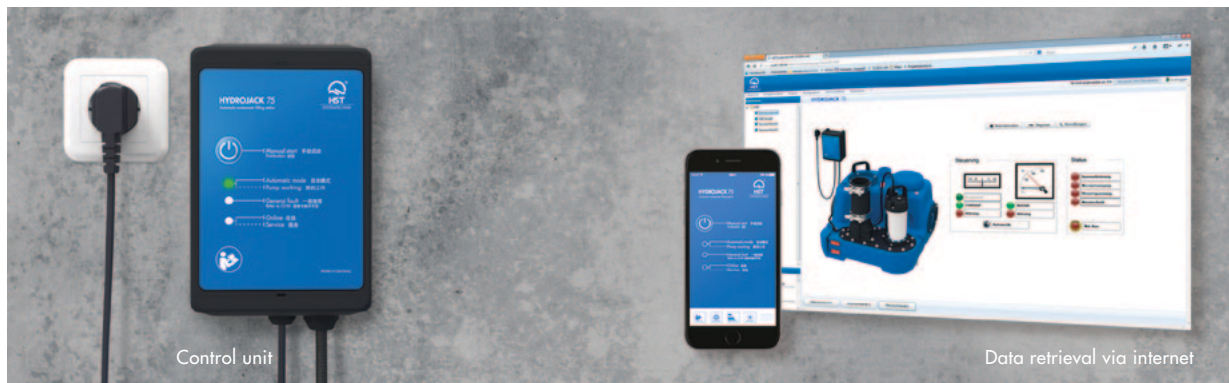
- Retrieval of actual- and historical operating and functioning data as standard function by means of SmartSCADA
- Fault signalling by potential free contacts

Data retrieval via internet

- Run hours
- Number of switching cycles
- Pumped volume over a specified period in m³
- Energy consumption in kWh over a specified period
- Current status relating to operation/standby, liquid level in the tank, information if pump is blocked



SMART MACHINE



TECHNOLOGY FROM GERMANY

- Easy and fast installation by "Plug & Play", the tools are supplied with the unit
- Hygienic, quiet and reliable operation
- Powerful waste water pumping using a vortex impeller
- Development and production in Germany
- Long life components to industry standard
- Flood proof unit with anti-flotation security
- Ergonomic transport and installation handles
- Fasteners of stainless steel
- Compact tank dimensions
- Chemical resistant tank
- Simple control system
- M2M communication and remote maintenance monitoring available
- Useful volume up to 75 litres



HST SYSTEMTECHNIK

HST Systemtechnik has over 30 years of experience in the development, production and installation of machinery and plant together with IT and automation technology in equipment, plant and operating units in technical infrastructure projects mainly in the water industry. HST is one of the industry

leaders in waste water and sewage disposal. The company, which combines product development and production to the highest industrial standards, is located in Germany. On a global scale we have international partners and subsidiaries in over 13 countries in project realisation and in service.



HST Systemtechnik GmbH & Co. KG | Heinrichthaler Straße 8 | 59872 Meschede | GERMANY
 Telephone +49 291 99 29 0 | Telefax +49 291 76 91 | E-Mail info@hst.de
www.hst.de