

Compact sewage disposal unit with integrated swing check valve.

Sanistar



Application

HOMA Sanistar are compact sewage disposal units. They are suitable for pumping sewage and waste water from toilets, hand basins, showers and rooms which are below the sewer level. Even if there is a natural fall, if the sewer is flooded, the sewage is unable to drain. In this case, Sanistar will prevent a back up and flooding of the room.

HOMA Sanistar are the ideal solution for new constructions or renovation of old constructions.

They are used for applications in:

- Detached houses
- basement rooms
- sanitary facilities in cellar rooms
- sanitary facilities in restaurants, hotels, cinemas, theatres, shopping centres, schools and hospitals.

DIN EN 12050-1: Conformity and design approved and controlled by LGA

Pumped liquid: Clear water or drainage water, waste water or sewage containing soft solids. Max. liquid temperature: 35°C, short term up to 60°C.

Operation: Intermittent.

Design

Flood protected single or twin pump lifting station consisting of:

Collecting tank: Odour and gas tight plastic collecting tank.

Inlets:

- DN 100 horizontal, 180 mm height
- DN 100 horizontal, 250 mm height
- DN 100 vertical
- DN 150 horizontal und vertical
- DN 40 vertical.

Discharge: Flange DN 80.

Flexible union piece DN 80/DN 100.

With integrated soft ball check valve.

Air vent: DN 70 vertical. Connection for diaphragm pump: BSP 1" F.

Cleaning cover with screw cap.

Pump: Pump chamber integrated in the collecting tank. Non clogging impeller, spherical clearance 45 mm.

Motor: Fully submersible, pressure tight electric motor, 1Ph or 3Ph. Thermal sensors embedded in the winding. Insulation class H. Degree of protection IP 68. Stainless steel rotor shaft, pre-lubricated bearings.

Seals: Triple lip seal combination in separate oil chamber. Oil inspection from outside.

Materials

Collecting tank with pump housing	Polyethylene
Impeller, pump flange	Cast iron
	EN-GJL-250
Rotor shaft, screws	stainless steel
Seal kit	Perbonane

Equipment supplied

Tank with 1 pump (Sanistar 1...) or 2 pumps (Sanistar 2...), discharge with DN 80 soft ball check valve and flanged elastic union piece DN 80/DN 100 with hose bands. Elastic union piece for inlet DN 100 and air vent DN 70 with hose bands. Pneumatic level control. Electronic control box with cable.

Control box

Pneumatic level control with pressure operation. Motor over run period which prevents sewage build up and blockage. Electronic control box for control and monitoring of all important functions. Motor protection with temperature control of the winding. Optical failure alarm. Acoustic alarm by buzzer. Volt free contact for remote signal. Control indication for direction of rotation. Connection for ServCom controller (see accessories) for:



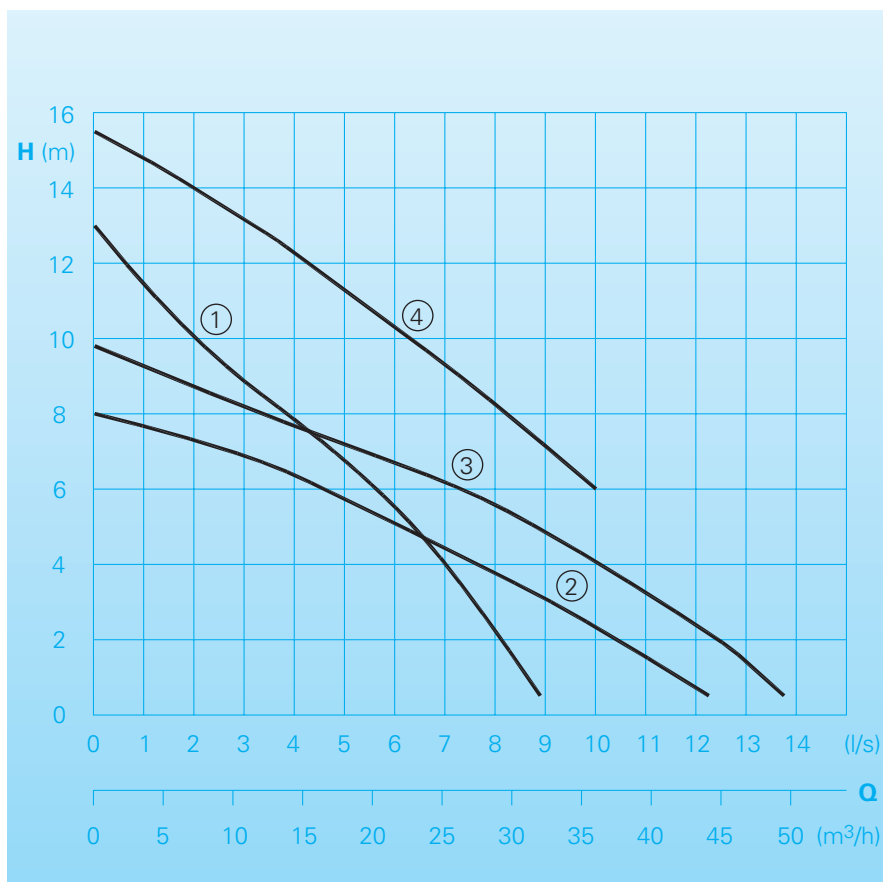
- Monitoring of operation hours, number of starts, maintenance interval, unnormal operating conditions.
- Adjustment of pump operation level in the tank.

Mains-independent alarm by installing a 9 V battery (see accessories).

Additional for twin pump station:

Auto-change over after each pump cycle. Operation of both pumps at high flow. In the event of failure automatic change over to the second pump.

Performance



Cable	Type	length
Unit-control box	H07 RN8-F6G1,5	4 m
Control box plug	H07 RN8-F6G1,5	0,8 m

Technical Data

Curve No.	Type Sanistar	No. of Pumps	Motor P ₁ (kW)	P ₂ (kW)	Voltage 50 Hz (V)	Speed (rpm)	Nominal current (A)	Collection tank total volume	Collection tank operation vol.	Weight (kg)
①	105 W	1	1,6	1,1	230/1Ph	2900	7,0	70 l	30 l	64
①	105 D	1	1,5	1,1	400/3Ph	2900	2,5	70 l	30 l	64
②	110 W	1	1,7	1,3	230/1Ph	1450	7,1	70 l	30 l	66
②	110 D	1	1,5	1,1	400/3Ph	1450	3,1	70 l	30 l	66
③	120 W	1	2,3	1,7	230/1Ph	1450	10,7	70 l	30 l	73
③	120 D	1	2,3	1,7	400/3Ph	1450	4,4	70 l	30 l	73
④	130 D	1	3,0	2,1	400/3Ph	2900	5,1	70 l	30 l	73
①	205 W	2	1,6	1,1	230/1Ph	2900	7,0	95 l	45 l	92
①	205 D	2	1,5	1,1	400/3Ph	2900	2,5	95 l	45 l	92
②	210 W	2	1,7	1,3	230/1Ph	1450	7,1	95 l	45 l	96
②	210 D	2	1,5	1,1	400/3Ph	1450	3,1	95 l	45 l	96
③	220 W	2	2,3	1,7	230/1Ph	1450	10,7	95 l	45 l	110
③	220 D	2	2,3	1,7	400/3Ph	1450	4,4	95 l	45 l	110
④	230 D	2	3,0	2,1	400/3Ph	2900	5,1	95 l	45 l	110

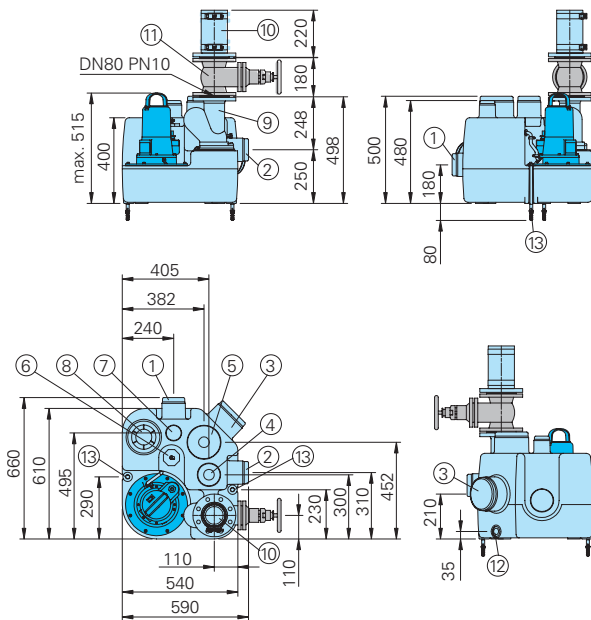
The types Sanistar 210 to 230 are also available with 1 pump to allow a later installation of the second pump.

Inlets: DN 100 (3x), DN 150 (2x), DN 40 | **Discharge:** Flange DN 80 / EU-piece DN 80 / DN 100

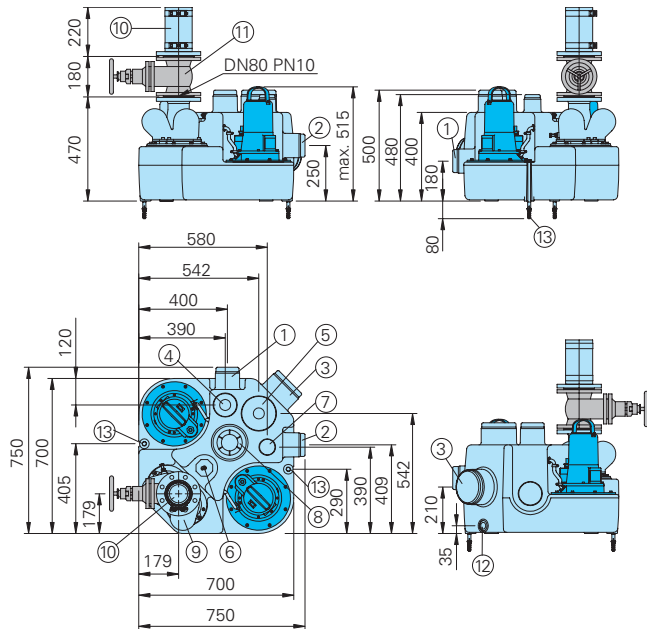
Air vent: DN 70 / Connection for diaphragm pump BSP 1 " F

Dimensions and main components (all dimensions in mm)

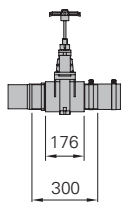
Sanistar 105, 110, 120, 130 (single pump lifting station)



Sanistar 205, 210, 220, 230 (twin pump lifting station)

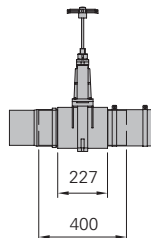


PVC-inlet valve
DN 100



Connection
for tank

PVC-inlet valve
DN 150

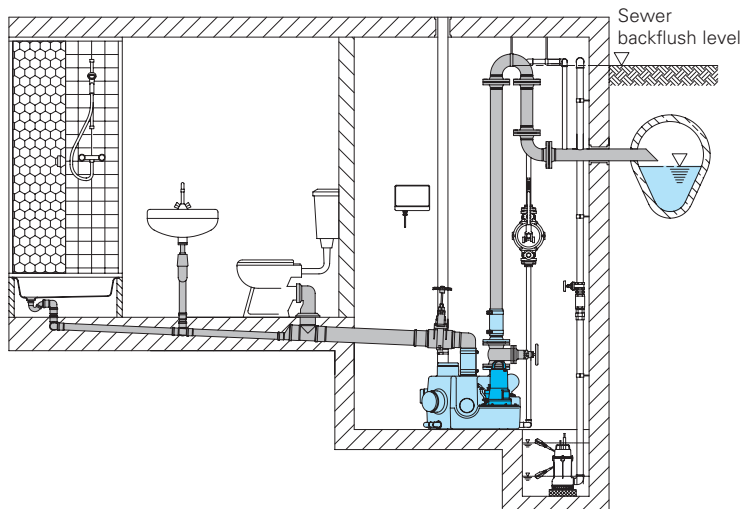


Connection
for tank

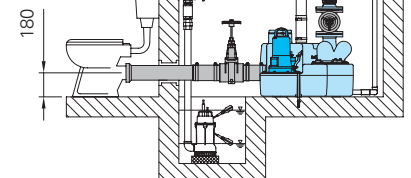
- ① Horizontal inlet DN 100
- ② Horizontal inlet DN 100
- ③ Horizontal inlet DN 150
- ④ Vertical inlet DN 100/DN 40
- ⑤ Vertical inlet DN 150/DN 40
- ⑥ Connection for pneumatic control box
- ⑦ Air vent DN 70
- ⑧ Cleaning cover
- ⑨ Soft ball check valve DN 80
- ⑩ Elastic union piece
- ⑪ Flanged gate valve DN 80
- ⑫ Connection for diaphragm pump BSP 1"
- ⑬ Tank fixing point

Installations

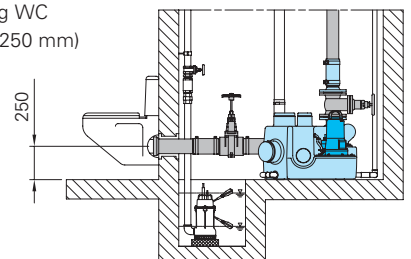
Main inlet
vertical



Direct connection
Euro-WC
(Inlet height 180 mm)



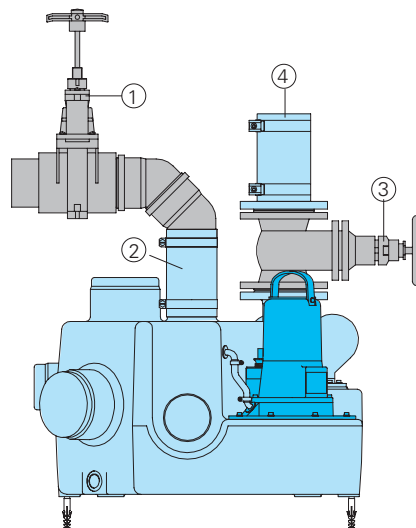
Direct connection
Free standing WC
(Inlet height 250 mm)



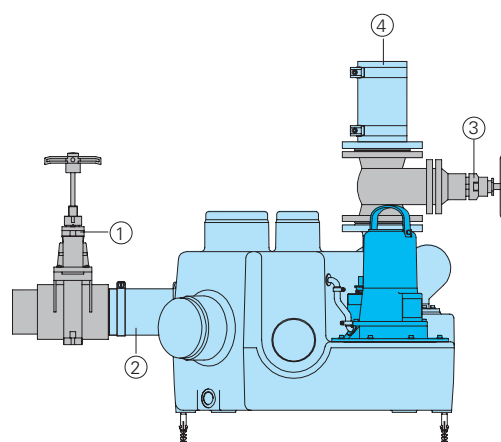
Accessories

Part Description	Dimension	Part No.
① PVC-inlet valve	DN 100 DN 150	2214110 2214160
② Elastic union piece with hose bands	DN 100 DN 150	Equipment supplied 2159542
○ Hose band	S 115/20 GBS 168/30	2311520 2317520
③ Flanged gate valve with gasket and fixing bolts	DN 80	2216080
○ Screw kit with gasket steel galvanized stainless steel	DN 80 DN 80	2214080 2214082
④ Flanged elastic union piece, DN 80 for discharge pipe	DN 100 DN 80	Equipment supplied 2159021
○ Diaphragm pump	BSP 1" F	8502445
○ Battery 9 V for mains-independent alarm		1952214
○ ServCom controller for monitoring of operation data and adjustment of the control levels in the tank		1964450

Vertical inlet



Horizontal inlet



HOMA
P U M P T E C H N O L O G Y

HOMA Pumpenfabrik GmbH
P.O.Box 22 63, D-53814 Neunk.-Seelscheid
Tel. +49 (0) 22 47 / 702-0, Fax +49 (0) 22 47 / 702-44
e-mail: info@homa-pumpen.de
www.homapumps.com