Sanifos 1600/2100/3100

Create your **TAILOR-MADE** lifting station

Depending on your project the Sanifos can be tailor-made for your requirements. Here are the different steps to finding the configuration you need.

ZehnderPumpen Technology

Choose :

① Your station

Depending on the number of devices you want to connect to your station, different tank volumes are available. All tanks can accommodate 1 pump or 2 pumps.

② Your pump

Depending on the type of water that needs to be removed for your project, you can choose a submersible pump that is suitable. For grey water we recommend ZPG, for black water ZFS.

③ Your control box

Choose the box suitable for your needs. Options available are with floats or pneumatic detection.

④ Your accessories

For your installation chains and shackles are included, but you can choose different covers and a fall protection grid. For a tank with floats – 3 are required in a single pump version, 4 in a twin pump version, two sizes of floats are available.
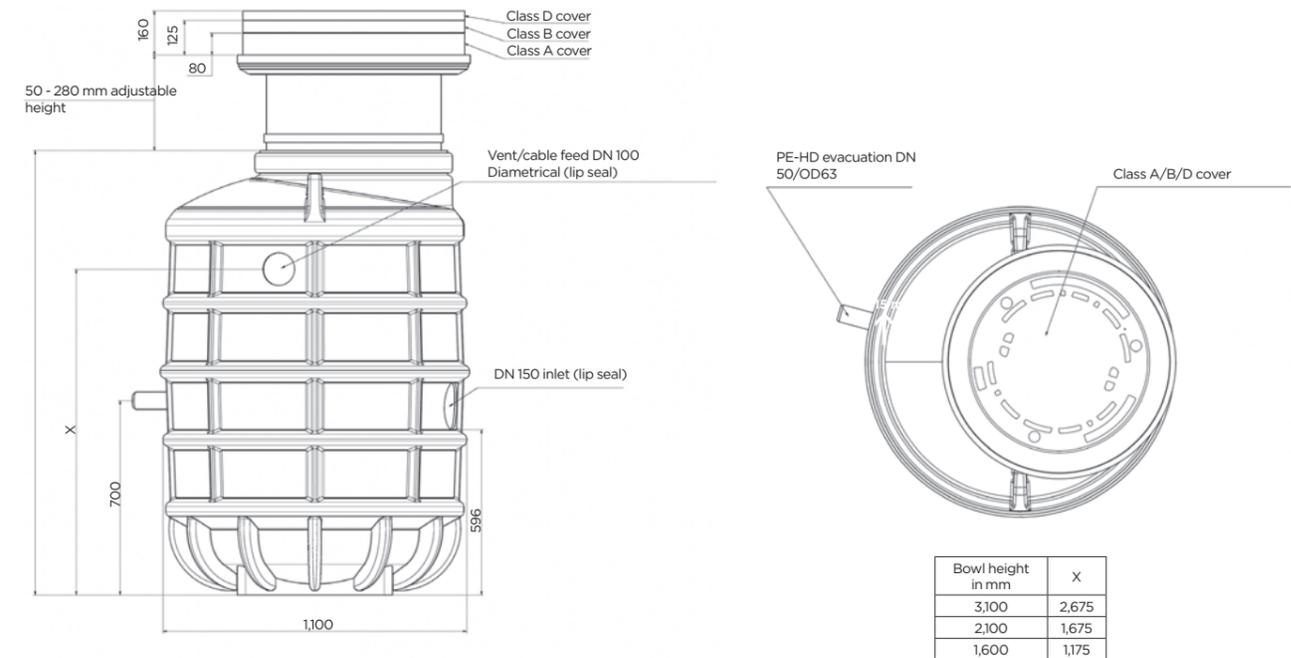
① Your station

APPLICATIONS

- Lifting of black water (ZFS) or rainwater (ZPG) from individual houses or public buildings
- Outdoor installation
- Different covers available

ADVANTAGES

- Adjustable extension height
- DN32 stainless steel piping, pre-assembled with coupling system
- Non-return valve, shut-off valve and 1″ connectors
- PE-HD outlet 63 x 5.8, external to the manhole
- 2 DN 100 connections for cable glands
- This unit can be made to your requirements please contact us for more information

DIMENSIONS

Class D cover
Class B cover
Class A cover

160
125
80

50 - 280 mm adjustable height

Vent/cable feed DN 100 Diametrical (lip seal)

PE-HD evacuation DN 50/OD63

Class A/B/D cover

DN 150 inlet (lip seal)

X
700
596
1,100

Bowl height in mm	x
3,100	2,675
2,100	1,675
1,600	1,175

	Sanifos 1600-1	Sanifos 1600-2	Sanifos 2100-1	Sanifos 2100-2	Sanifos 3100-1	Sanifos 3100-2
Type of control box	ZPS 1 control box	ZPS 2 control box	ZPS 1 control box	ZPS 2 control box	ZPS 1 control box	ZPS 2 control box
Number of pumps	1	2	1	2	1	2
Material						
Tank	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polyethylene
Guide bars	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Pipework	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Hydraulics						
External discharge diameter DN	50	50	50	50	50	50
External ventilation diameter DN	100	100	100	100	100	100
External inlet diameter DN	150	150	150	150	150	150
ON level /OFF level (mm)	Adjustable using the control box					
Max. incoming water connection (mm)	1000	1000	1500	1500	2500	2500
Max. incoming water connection with extension (mm)	1440	1440	1940	1940	2940	2940
Type of activation	Float or pneumatic depending on pump chosen (see page 54)					
Identification and logistics						
Barcode	3308815081885	3308815081915	3308815081892	3308815081922	3308815081908	3308815081939
Product code	14479	14490	14474	14477	14475	14478

2 Your pump

SANIPUMP ZPG 71

- For pumping rainwater or black water
- Cast iron pump with vortex impeller
- Suitable for use in a manhole or pit
- Details on page 90

SANIPUMP ZFS 71

- All waste water
- Cast iron grinder impeller pump
- Ideal for high total dynamic head requirements
- Can be used for collective sanitary facilities, such as public buildings and apartment blocks
- Details on page 92

Sanipump VX 50

- For pumping waste water or rainwater
- Cast iron pump with vortex impeller
- Can be used in a manhole or pit
- Details on page 96

DESCRIPTION	BARCODE	PRODUCT CODE
SANIPUMP ZPG 71.1 S	3308815081533	21857
SANIPUMP ZPG 71.1 T	3308815081540	21858
SANIPUMP ZPG 71.2 T	3308815081557	21859
SANIPUMP ZPG 71.3 T	3308815081564	21860

DESCRIPTION	BARCODE	PRODUCT CODE
SANIPUMP ZFS 71.1 S	3308815081571	21410
SANIPUMP ZFS 71.1 T	3308815081588	21411
SANIPUMP ZFS 71.2 T	3308815081595	21412
SANIPUMP ZFS 71.3 T	3308815081601	21413
SANIPUMP ZFS 71.4 T	3308815081618	21332

DESCRIPTION	BARCODE	PRODUCT CODE
SANIPUMP VX 50.1 S	3308815090139	31012
SANIPUMP VX 50.1 SA	3308815090146	31013
SANIPUMP VX 50.1 T	3308815090153	31014
SANIPUMP VX 50.2 S	3308815090160	31015
SANIPUMP VX 50.2 SA	3308815090177	31016
SANIPUMP VX 50.2 T	3308815090184	31017
SANIPUMP VX 50.3 S	3308815090191	31018
SANIPUMP VX 50.3 SA	3308815090207	31019
SANIPUMP VX 50.3 T	3308815090214	31020
SANIPUMP VX 50.4 S	3308815090221	31021
SANIPUMP VX 50.4 SA	3308815090238	31022
SANIPUMP VX 50.4 T	3308815090245	31023

3 Your control box

ZPS control box for the installation of one pump

- Wall mounted control box
- Available in pneumatic or float version
- Memory of the last 64 error messages
- Integrated audio and visual alarm
- Displays operating status by text and indicator light
- Automatic operation of one (or more) pumps
- Alternating operation for workstation with dual pumps

ZPS control box for the installation of two pumps

- Can switch on the 2nd pump if necessary
- Error messages displayed
- Level control via dynamic pressure, float switch or 4–20 mA interface for external sensor
- Displays operating hours, electricity consumption as well as maintenance intervals
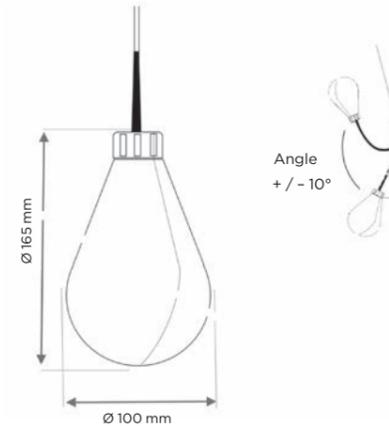
Details on page 106, Accessories.

DESCRIPTION	NO. OF PUMPS	POWER	BARCODE	PRODUCT CODE
ZPS 1 S CONTROL BOX PNEUMATIC VERSION	1	230 V	3308815081793	21863
ZPS 2 S CONTROL BOX PNEUMATIC VERSION	2	230 V	3308815081809	21864
ZPS 1 T CONTROL BOX PNEUMATIC VERSION	1	400 V	3308815081816	21884
ZPS 2 T CONTROL BOX PNEUMATIC VERSION	2	400 V	3308815081823	21885
ZPS 1 S CONTROL BOX FLOAT VERSION	1	230 V	3308815081830	21865
ZPS 2 S CONTROL BOX FLOAT VERSION	2	230 V	3308815081847	21866
ZPS 1 T CONTROL BOX FLOAT VERSION	1	400 V	3308815081854	21867
ZPS 2 T CONTROL BOX FLOAT VERSION	2	400 V	3308815081878	21868

4 Your accessories

AQUA XL — WEIGHTED FLOAT FOR STATIONS

Due to its weight (775 g) and volume this self-weighted level float, is perfectly suited to starting and stopping several pumps in waste water lifting stations, where sometimes thick layers of fat form on the surface.

Ø 165 mm
Ø 100 mm
Angle +/– 10°

Permissible fluid densities	0.95 to 1.05 g/cm^3
Electrical characteristics	250 VAC 50-60 Hz
Breaking capacity	10 (4) A
Permissible operating pressure	2 bar
Maximum temperature	70 °C
IP rating	IP 68
Housing	Polypropylene copolymer
Cable type	PVC 3 x 0.75 mm
Cable-free float weight	775 g

Required:
- 3 floats for single pump versions
- 4 floats for 2 pump versions

DESCRIPTION	BARCODE	PRODUCT CODE
AQUA XL 10 M	3308815082691	41000
AQUA XL 20 M	3308815082707	41001

STANDARD COVERS EN124 — COVERS FOR PEDESTRIAN AND VEHICLE TRAFFIC

According to standard NF EN 124, lids are classified in the following categories: A15, B125 and D400.

CLASS A15
Areas that can be used exclusively by pedestrians and cyclists

CLASS B125
Footpaths, pedestrian areas and similar areas, parking areas and multi-storey car parks

CLASS D400
Traffic lanes, streets / roads (including pedestrian), hard shoulders and parking areas for all types of vehicles

DESCRIPTION	BARCODE	PRODUCT CODE
COVER A	3308815081946	16035
COVER B	3308815081953	16038
COVER D	3308815081960	16044
COVER D + GAC 600	3308815082677	30513
COVER D + GAC 800	3308815082684	30514

FALL PROTECTION GRILL, OPTIONAL FOR COVER D

The fall protection grill keeps people safe when the cover is open for work or maintenance.

FEATURES	GAC 600	GAC 800
Tube Rods	Ø 27/Ø 21	Ø 26.9 th. 2 mm
Material	316 L stainless steel	
Resistance	Static load capacity 500 kg maximum	
Spacing between each rod	53 mm	< 120 mm
Opening angle	> 100°	
Free passage A X B in mm	504 x 617	597 x 817
Weight in kg	9.3	13.5