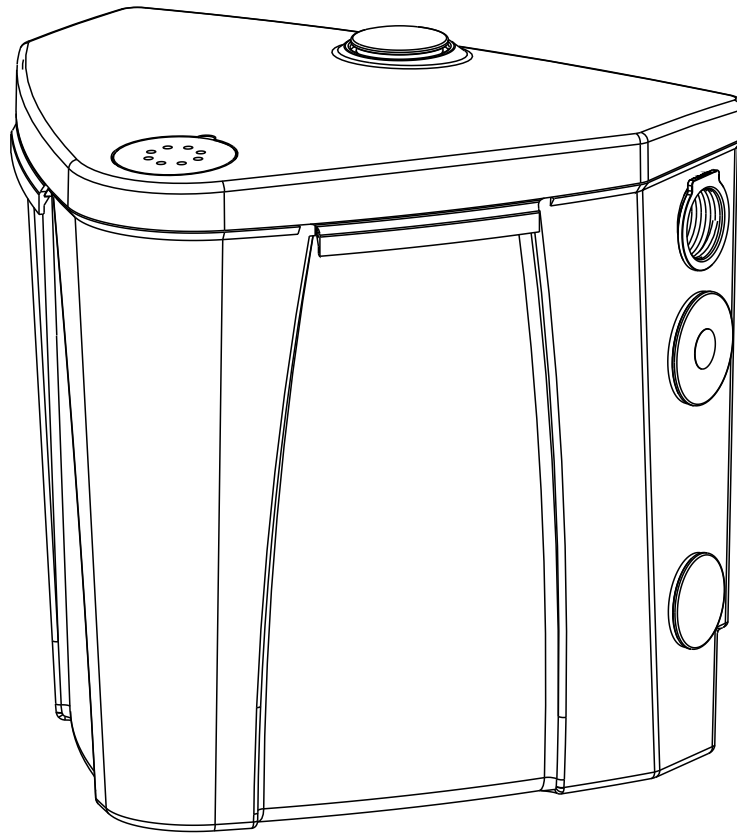

ABS lifting station Sanimax

1051-00



ABS lifting station Sanimax

R202	MF054-1	MF254-1
R202	MF154-1	MF324-1

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1 General

1.1 Application areas

ATTENTION The maximum allowable temperature of the medium pumped is 40°C

The Sanimax with ABS submersible pump has been designed for the dewatering of buildings below the sewer level. They are suitable for faecal free effluent in accordance with EN 12056/DIN 1986 -100.

The Sanimax is a compact waste- water lifting unit which can be installed either under or beside the waste-water source at floor level.

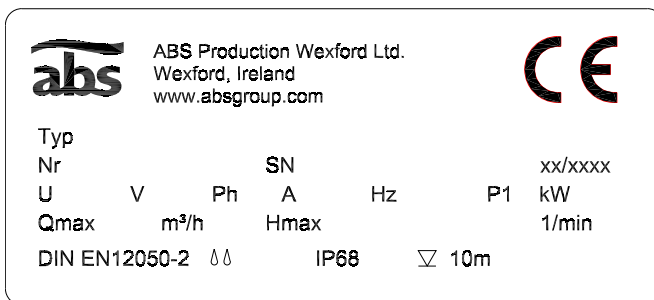


In accordance with the Regulations for Effluent Lifting Stations, pumping of effluent containing faecal matter, or the pumping of flammable or explosive fluids is not allowed with these Lifting Stations.

1.2 Nameplate

We recommend that you record the data from the original nameplate on the nameplate illustration below and maintain it, together with your purchase receipt, as a proof for subsequent use.

Always state the pump type, item no. and serial no. in the field "Nr" in all Communications



Legend

Type	Pump type	
Nr./SN	Item No./Serial No.	
xx/xxxx	Production date (Week/Year)	
UN	Rated Voltage	V
IN	Rated Current	A
	Frequency	Hz
P1N	Rated Input Power	kW
n	Speed	min-1
Qmax	Max. Flow	m ³ /h
Hmax	Max. Head	m
◆◆	Water pressure tight	
IP 68	Protection type	
▽	Max submersible depth	m

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Figure 1 Nameplate

1.3 Summary of the legal regulations covering the use of lifting stations for the pumping of faecal-free effluent.

Automatically operated lifting units are prescribed if:

- The water level in the odour-lock lies below the sewer backwash level.
- Rainwater gullies from areas below the sewer backwash level are present.

The sewer backwash level is the maximum possible water level in the public sewer network, and information on this can be obtained from your Local Authority. If the backwash level has not been fixed by the Local Authority, then the surface level of the roadway at the connection point is taken to be the level.

If the effluent does not give rise to foul odours, then a water-tight connection tank fitted with a lid is acceptable.

ATTENTION The Regulations of DIN 1986 as well as your own local by-laws should be observed.

1.4 Design of the lifting unit

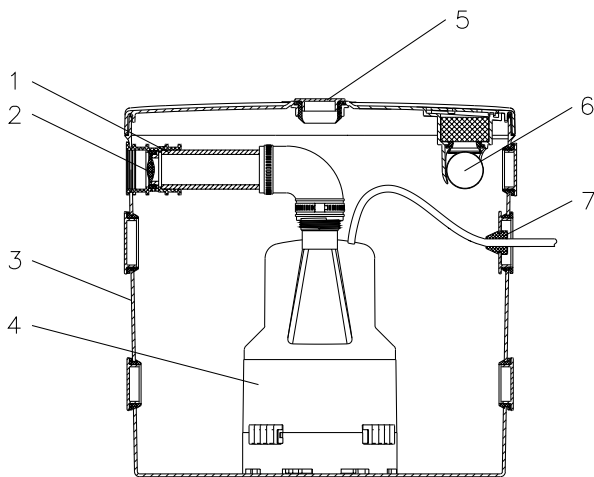


Figure 2 Sanimax R202 & R202/C

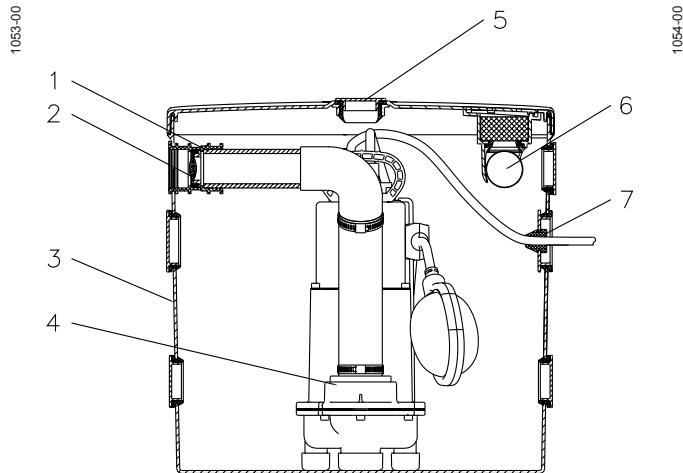


Figure 3 Sanimax MF

- | | |
|---------------------------------------|--|
| 1 Discharge line | 5 Vertical inflow in tank cover |
| 2 Non-return valve | 6 Tank venting with integral odor filter and overflow protection |
| 3 Synthetic tank (triangular-shape) | 7 Sealed cable entry |
| 4 Waste-water pump with level control | |

NOTE: *Supplied as standard*

Sanimax R202 & R202/C

- Washing machine connection adapter
- Hose clamps
- Discharge line connection adapter with non-return valve fitted
- Rubber elbow
- PVC discharge pipe

Sanimax MF

- Washing machine connection adapter
- Hose clamps
- Discharge line connection adapter with non-return valve fitted
- Flexible discharge pipe
- PVC discharge pipe with elbow

2 Safety

The general and specific health and safety hints are described in detail in the separate booklet Safety Hints. If anything is not clear or you have any questions as to safety make certain to contact the manufacturer ABS.

3 Transport

ATTENTION *The lifting unit should not be thrown or dropped during transport.*



The lifting unit of the Sanimax should not be lifted by the cable!



All relevant safety regulators as well as general good technical practice must be complied with.

4 Description

ABS Sanimax R202 & R202C with waste-water pump ROBUSTA 202 W/TS &/C has 7 variable connections, already prepared for installation, for inflow line and cable, as well as discharge connection for PVC-pipe.

Hose connection nozzle 3/4".

Odour-tight cover containing vent with odour filter and overflow protection.

Non-return valve fitted as standard (a supplementary check valve is required above 5m head)

ABS Sanimax MF 054-324-1 with waste-water pump MF-1/KS has 5 variable connections, already prepared for installation, for inflow line and cable, as well as discharge connection for PVC-pipe.

Hose connection nozzle 3/4".

Odour-tight cover containing vent with odour filter and overflow protection.

Non-return valve fitted as standard (a supplementary check valve is required above 5m head)

5 Installation

NOTE *EN, DIN and VDE – regulations should be observed*

5.1 Cable inlet

- Remove cable ties and select tank opening.
- Remove stopper (leaving tank seal) from the tank opening.
- Feed cable (4) with stopper (1) and seal (3) to the outside.
- Lubricate tank seal (2) with lubricant
- Insert stopper fully into seal
- Tie up the residual cable in the tank with the aid of a tie-wrap and place securely between pump and tank wall at the opposite side to the level control system.
- The cable should not hinder the movement of the float.

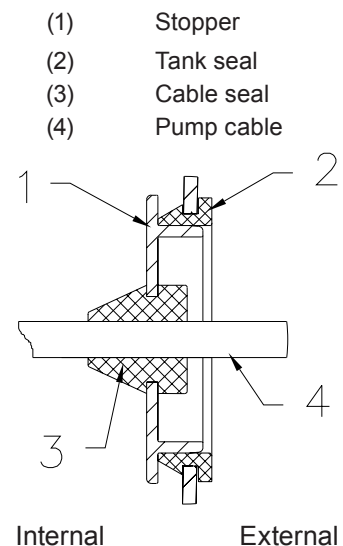


Figure 4 Cable inlet

5.2 Discharge Line

As shown in the installation example below, the discharge line outer diameter 40mm should be brought above the backwash loop (180° bend) and then allowed to flow by gravity into the collection sewer or channel (Regulation: EN 12056 u. DIN 1986/100).

The discharge line should be laid so that it is not affected by frost.

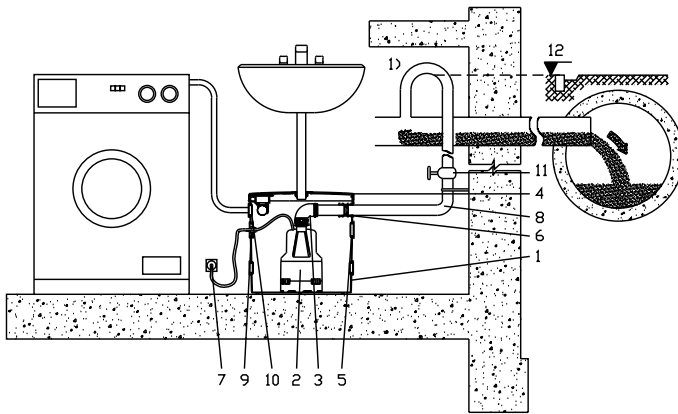
The discharge line should not be connected to a down-pipe. No other discharge lines or inflows should be connected to the discharge line.

Select a suitable tank port for the discharge line, remove the plug. If necessary, rotate the rubber bend to suit. The discharge line inside the tank should be inserted (at least 30mm) into the rubber bend. Tighten thoroughly hose clamps. For further details see pump installation sheet (MF 15975136 and Robusta 15975137) supplied with the unit.

All other tank openings can be used in a similar manner.

The non-return valve fitted into the rubber discharge line connection adapter, must be installed in such a manner that the non-return valve opens in the flow direction. Ensure that the flap is orientated so that the hinge is at the highest point.

5.2.1 Installation Example Sanimax R202 and R202/C



- 1 Synthetic tank
 - 2 Waste-water pump Robusta 202 with TS-level control System
 - 3 Bend
 - 4 Cover with integral odour lock
 - 5 Variable inlet possibilities pipe Ø 40/50 mm
 - 6 Discharge line connection with seal and non-return valve
 - 7 Earthed socket
 - 8 Discharge line 40 mm
 - 9 Sealed cable entry
 - 10 Hose connection for washing machine
 - 11 Shut-off valve (accessory)
 - 12 Backwash loop
- 1) Install backwash loop so that the lower edge is above the backwash level.

1056-00

Figure 5 Installation example

5.3 Electrical connection



Before operating, have a qualified person check that all required electrical protective measures are present. Earthing, neutral line, earth leakage circuit breakers, etc. must correspond to the regulations of your local Electricity Supply Board and must function perfectly.

ATTENTION *Cross-section and voltage drop of the power line must correspond with the local Electricity Supply Board regulations.*

ATTENTION *Check that the voltage on the name-plate of the pump is the same as the mains voltage.*

The unit is fitted with a float switch, which automatically switches on and off the pump at the pre-set switching heights.

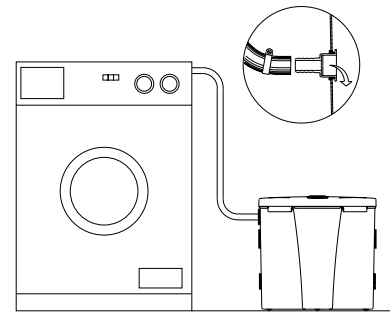


The earthed socket should, depending on type fitted, be installed at the prescribed distance from the Lifting station and water source.

5.4 Washing machine connection

The washing machine nozzle should be installed together with seal from the inside and pushed on to the washing machine hose.

ATTENTION *Clamp the washing machine hose with a hose clamp.*

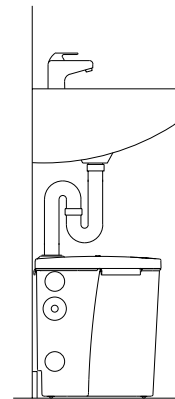


1057-00

Figure 6 Washing machine connection

5.5 Wash-hand basin connection

For wash-hand-basin connection, remove the plug in the cover and push the S-Bend tube downward into the unit. Connect the S-Bend to the wash-hand-basin. Do not, however, fully tighten the plastic nuts. Determine the tube length (allow approximately 2 cm of the tube to enter the unit), cut to size, and carry out final assembly.



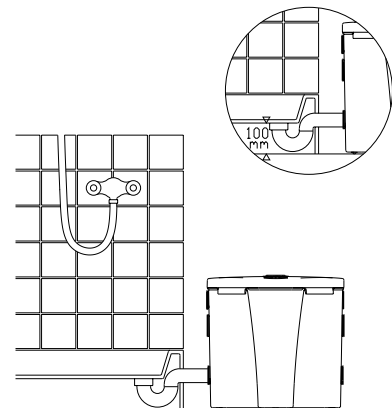
1058-00

Figure 7 Wash-hand basin connection

5.6 Shower connection

When connecting a shower, one of the lower tank ports should be used.

The height difference between the floor of the shower and the floor of the tank of the lifting unit should be to EN/DIN in accordance with the illustration. In the case of a greater distance between the Sanimax R202 &/C and the shower basin, it is necessary to make an addition to allow for the recommended fall for gravity flow. The shower-basin must then be located at a higher level. Only used with Sanimax R202 &/C.



1059-00

Figure 8 Shower connection

Before closing tank with lid, carry out a test run. This is done by allowing water to flow into the tank and observing the functioning of the pump switching heights:

Sanimax R202 &/C

ON = 100 mm; OFF = 50 mm approx.

Sanimax MF...-1

ON = 210 mm; OFF = 120 mm approx.

The tank cover, with the pipe inlet to the back is placed in position and pressed until all four moulded securing clips are fully engaged in order to ensure that it is correctly sealed.

6 Maintenance



Before carrying out any maintenance work on the unit, all power lines should be disconnected from the mains, and care should be taken that the unit cannot be inadvertently switched back on.

ATTENTION *The maintenance hints given here have not been provided for DIY repair work as special technical knowledge is required for this.*

The ABS warranties are only valid if original ABS spare parts have been used for all repair work.

6.1 General maintenance hints

ABS lifting units are reliable products of proven quality and are subject to careful testing before leaving the factory. Lubricated -for-life ball-bearings together with monitoring devices ensure optimum reliability of the pump, provided that installation and usage is in accordance with our operating instructions.

Should nevertheless, a problem arise, do not improvise but ask your ABS Service Centre for assistance.

In order to ensure a long running life, regular checks and care are recommended.

The ABS Service Organisation will be glad to advise you on any special applications you have, and is always ready to assist you with your pumping problems.

6.2 Cleaning the lifting unit

The lifting unit should be cleaned at least once a year.

If the unit is lightly soiled, it should be rinsed out a number of times with clean water.

If the unit is heavily soiled, then it is necessary to remove the submersible pump for cleaning.

ATTENTION *This work should only be carried out by an ABS Service Centre or Contract Workshop.*

A Maintenance Contract with one of our factory authorised Service Centres will ensure the best possible professional maintenance for all events.

Declaration of conformity

As defined by: Machinery Directive 98/37/EC, EMC-Directive 89/336/EC, Low Voltage Directive 73/23/EC, Construction Directive 89/106/EC

GB: Declaration of conformity	NL: Overeenkomstigheidsverklaring	HU: Megfelelőségi nyilatkozat
DE: Konformitätserklärung	SE: Försäkran om överensstämmelse	GR: Δήλωση επαρμοίνσης
FR: Déclaration de Conformité	NO: Samsvarserklæring	ET: Vastavusdeklaratsioon
ES: Declaración de Conformidad	DK: Overensstemmelseserklæring	CZ: Prohlášení o shodě
PT: Declaração de conformidade	FI: Vaatimustenmukaisuusvakuutus	SI: Izjava o skladnosti
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Products:

ABS lifting station SANIMAX R/C & MF

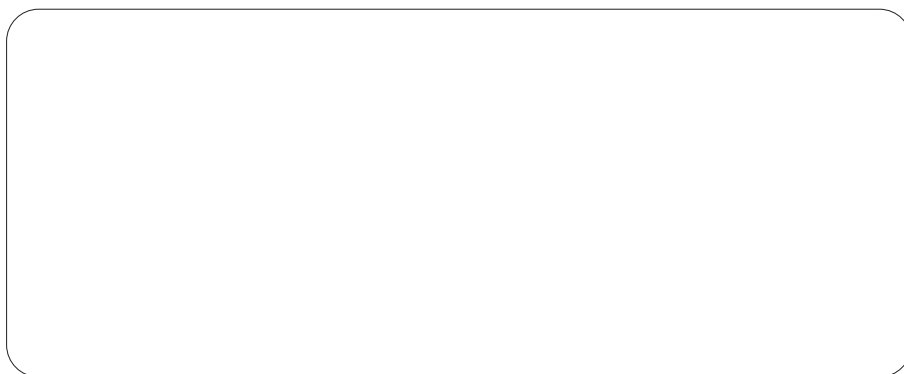
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DE: Auf die sich diese Erklärung bezieht, den folgenden und/oder anderen normativen Dokumenten entsprechen	FI: Joihin tämä vakuutus liittyy, ovat seuraavien standardien sekä muiden sääntöamääraävien asiakirjojen mukaisia
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DIN EN 12050-1, EN 60335, EN 13463, EN ISO 12100-1 & EN ISO 12100-2

03-01-2006



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