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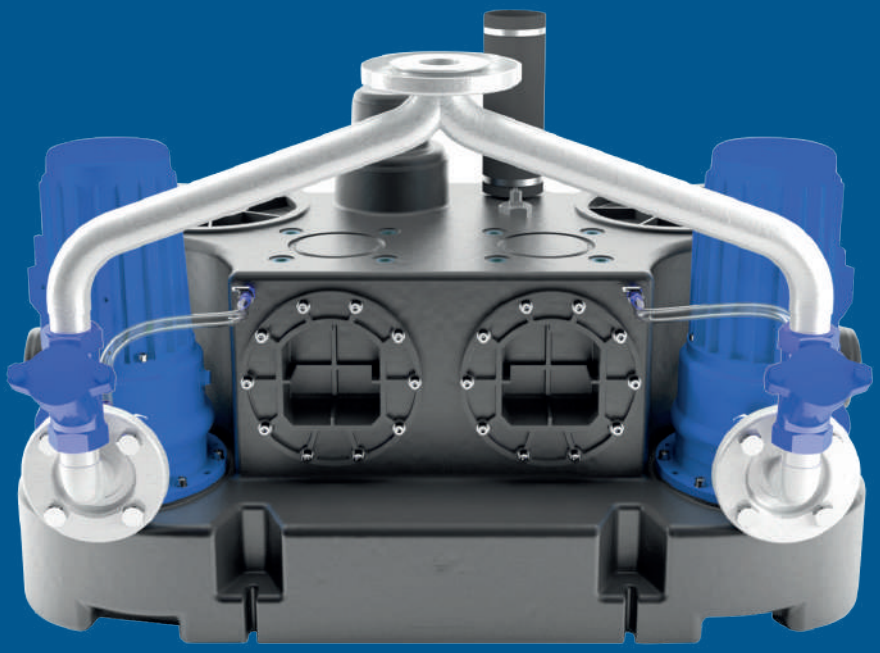
Sanicubic GR



FR Notice de service/montage
EN Operating/installation manual
DE Bedienungs-/Installationsanleitung
IT Manuale per l'uso e l'installazione
NL Gebruikers-/installatiehandleiding
ES Manual de instalación e uso
PT Manual de instalação/utilização
CS Návod k instalaci a obsluze
PL Instrukcja obsługi/montażu
RU Руководство по эксплуатации и установке
SV Monterings- och driftinstruktioner
NO Installasjons- og driftsinstruksjon
VI Hướng dẫn cài đặt và sử dụng

CE

1. SAFETY

1.1 IDENTIFICATION OF WARNINGS

	Meaning
DANGER	This term defines a high risk of danger, which can lead to death or serious injury, if not avoided.
WARNING	This term defines a medium risk of danger, which can lead to serious or minor injury, if not avoided.
NOTICE	This term characterises dangers to the machine and its proper operation.
	Warning of a general danger. The danger is specified by indications given in the table.
	This symbol characterises dangers associated with the voltage and provides information on voltage protection.

1.2 GENERAL POINTS

The operation manual at hand provides basic notes which have to be taken into account during assembly, operation and maintenance works. Therefore, before assembly and commissioning, this operation manual has to be read by the assembler as well as the responsible personnel/ operator at all costs. It always has to be available on site of operation of the machine/plant.

The general safety notes listed under the main point safety are not the only notes to be taken into account. Please also observe the specific safety instructions, such as those for private use, listed under other main points.

1.3 INTENDED USE

Only use the pumping station in the fields of application described in this documentation.

- The lifting station must only be operated in technically perfect conditions.
- Do not operate the partially assembled lifting station.
- The lifting station must only pump the fluids described in this documentation.
- The lifting station must never operate without pumped fluid.
- Consult us for operating modes not described in this documentation.
- Never exceed the usage limits defined in the documentation.
- The safe operation of the station is only ensured if it is used as described in this manual.

1.4 QUALIFICATION AND TRAINING OF STAFF

Commissioning and maintenance of this device must be performed by a qualified professional. Please refer to installation standard EN 12056-4.

1.5 SAFETY INSTRUCTIONS FOR MAINTENANCE, INSPECTION AND ASSEMBLY WORK

- Any alteration or modification of the pumping station will void the warranty.
- Only use original parts or parts recognised by the manufacturer. The use of other parts may void the manufacturer's liability for any resulting damage.
- The customer has to ensure that all maintenance, inspection and assembly work is carried out by authorised and qualified specialist personnel, who have been sufficiently informed through relevant and adequate study of the operating manual.
- Work on the machine is to be done only when it is shut down. The procedure for shutting down the machine is described in the operating manual and is to be precisely adhered to.
- Lifting stations that discharge fluids that are harmful to health must be cleaned. Before recommissioning, observe the commissioning instructions (see *5. Commissioning*).
- Keep unauthorised persons (e.g. children) away from the lifting station.
- Observe all safety instructions and instructions in this operating (and installation) manual.

This operating manual must always be available on site so it can be accessed by qualified staff and the operator.

1.6 RISKS AND CONSEQUENCES OF NON-COMPLIANCE WITH THE OPERATING MANUAL

Failure to comply with this operating and installation manual will result in the loss of warranty rights and rights to damages.

2. TRANSPORT, TEMPORARY STORAGE, DISPOSAL

2.1 RECEIVING INSPECTION

- When receiving goods, check the condition of the lifting station's packaging.
- In case of damage, note the exact damage and immediately notify the dealer in writing.

2.2 TRANSPORT

DANGER

Dropping the pumping station.

Risk of injury if the pumping station is dropped!

⇨ Keep the pumping station horizontal when moving it.
⇨ Observe the indicated weight.
⇨ Never suspend the pumping station by the power cord.
⇨ Use suitable means of transport.

- Always transport the lifting station in a horizontal position.
- Choose suitable means of transport.

	GROSS WEIGHT	TOTAL WEIGHT OF THE PALLET
Sanicubic 1 GR SE71.1 S	64 kg	80 kg
Sanicubic 1 GR SE71.1 T		
Sanicubic 1 GR SE71.2 T		
Sanicubic 1 GR SE71.3 T	68 kg	
Sanicubic 1 GR SE71.4 T		

	GROSS WEIGHT	TOTAL WEIGHT OF THE PALLET
Sanicubic 2 GR SE71.1 T	137 kg	150 kg
Sanicubic 2 GR SE71.2 T		
Sanicubic 2 GR SE71.3 T	144 kg	160 kg
Sanicubic 2 GR SE71.4 T		

- Inspect the pumping station to make sure there is no damage due to transport.

2.3 TEMPORARY STORAGE / PACKAGING

- The machine can be kept in interim storage and conserved in a cool, dark, dry and frost-free site.
- The systems should stand in horizontal position.
- In the case of commissioning after an extended storage period, take the following precautions to ensure storage of the pumping station:

NOTICE

Wet, dirty or damaged openings and junction points.

Leaks or damage to the pumping station!

⇨ Clear the pumping station's blocked openings at the time of installation.

2.4 DISPOSAL

The device must not be disposed of as household waste and must be disposed of at a recycling point for electrical equipment. The device's materials and components are reusable. The disposal of electrical and electronic waste, recycling and recovery of any form of used appliances contribute to the preservarion of our environment.

3. DESCRIPTION

3.1 GENERAL DESCRIPTION

The effluent lifting stations **Sanicubic GR** are single or double systems that are ready to plug in and safe against flooding, with collection chambers made of gas- and odour-proof plastic. They work with vertical cutting unit pumps with automatic pneumatic level control. They are completely equipped with switch boxes and all necessary switching elements.

3.2 APPLICATIONS

The effluent lifting units of the **Sanicubic GR** production series are used for the disposal (collection and conveying) of domestic effluent that develops underneath the canal backflow level.

The following liquids/substances are not allowed in discharge systems:

– Solid materials, fibres, tar, sand, cement, ash, coarse paper, hand towels, wipes, cardboard, rubble, rubbish, slaughterhouse waste, oils, greases, etc.

– Wastewater containing harmful substances (for example, untreated greasy waste from restaurants). Pumping these liquids and substances requires the fitting of a compliant grease trap.

3.3 OPERATING PRINCIPLE

The wastewater flows by gravity into the **Sanicubic GR** lifting station.

The collecting tank is designed for **non-pressure operation**. Wastewater is collected there at atmospheric pressure before being discharged to the sewer.

The water rising in the tank compresses the air in the dip tube screwed to the top of the tank. When the preset switch-on height is reached, the pump is activated and pumps the water out of the tank via the discharge line. A non-return ball valve (two in double systems) prevents the water from flowing back from the discharge line into the tank.

For double pumps models, both pumps operate each in turn, alternately. In case of abnormal operation, both engines run simultaneously (or if one pump fails, the other takes over).

The control box is equipped with an audible alarm that is activated in case of pump(s) failure or if the water level in the tank is too high. External alarm devices can be connected to the terminal blocks provided (refer to the control box manual). Their location is indicated on the wiring diagram of the switchgear.

3.4 SCOPE OF SUPPLY

The sewage lifting stations of the **Sanicubic GR** series are supplied with:

– built-on macerator pump(s) of the **Sanipump® ZFS 71** series,

– connection for emergency drainage or manual diaphragm pump,

– pneumatic control and control box

– flexible connection for venting the collection chamber

– pressure outlet connection DN 32

– non-return ball valve(s) DN 32

– Y-pipe DN 32/50 (only for double system).

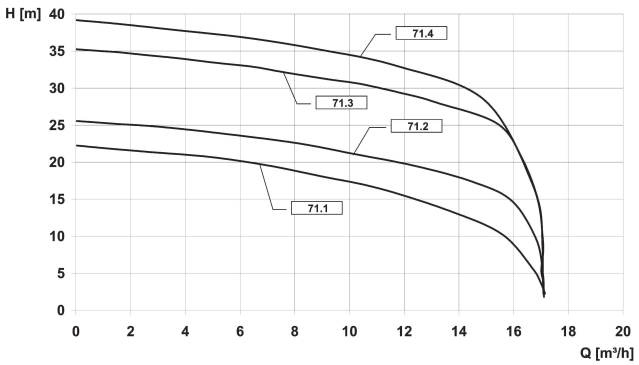
3.5 TECHNICAL DATA

SANICUBIC GR 1 SANICUBIC GR 2	SE71.1 S	SE71.1 T	SE71.2 T	SE71.3 T	SE71.4 T
Power P1 (kW)	2.2	2.1	2.1	3.9	3.9
Power P2 (kW)	1.7	1.7	1.7	3.2	3.2
Voltage U (V)	230	400	400	400	400
Maximum absorbed current (A)	10.5	3.7	3.7	6.5	6.5
Rated speed at 50 Hz (n-1)	2800	2800	2800	2800	2800
IP code	IP 68	IP 68	IP 68	IP 68	IP 68
Max. flow rate (m^3/h)	17	17	17	17	17
Max. discharge height (m)	22	22	25	35	39
Max. temperature of the pumped liquid	55°C				
Operating mode	S3 25%				
Sanicubic GR 1					
Discharge diameter	1-1/4"				
Inlets diameter	DN50, DN100				
Inlets Height h (mm)	250 (back and side inlets) 576 (upper inlet)				
Sanicubic GR 2					
Discharge diameter	DN50				
Inlets diameter	DN50, DN100, DN150				
Inlets Height h (mm)	250 (back and side inlets) 586 (upper inlet)				

Material

Tank	PE LD	**Impeller**	GG-20
Pump housing	GG-20	**Shaft**	Stainless steel
Motor housing	GG-20	**Pipework**	Stainless steel
Valve	GG-20	**Seals**	Carbone/Céramique

3.6 CURVE



3.7 OVERVIEW

See pg. **23**.

3.8 DIMENSIONS

See pg. **8**.

4. INSTALLATION

4.1 PREPARATION

- The characteristics shown on the rating plate have been compared with those on the order and installation (supply voltage, frequency).
- The installation room must be protected against frost.
- The installation room is adequately lit.
- The work has been prepared in accordance with the standard EN 12056-4.
- The plant room where the **Sanicubic** will be installed must be large enough to allow a 600 mm clearance around and above the device to facilitate maintenance. The height of the room should be approximately 2 to 2.5 m.
- The alarm signal is always visible to the user (if necessary, use an external alarm contact switch).
- In case of discharge of greasy effluents, the use of a degreasing tank is essential.

• Wastewater other than those mentioned above, for example, of artisanal or industrial origin, must not be discharged into the pipes without prior treatment.

• The floor of the room must be able to support the load of the entire installation.

• In underground rooms or rooms where there is a risk of water infiltration, it is recommended to place a drainage pump in a manhole.

4.2 FITTING

• A hook in the ceiling above the set-up site of the lifting unit facilitates assembly and potential maintenance and repair work on the pump.

• Prior to assembly, all construction and connection measurements should be checked and compared with the dimensions of the system. Here you should pay special attention that the constantly downward-inclining supply connection never lies lower than the inflow height of the collecting tank.

• Fit the pumping station on the bare ground and level it with a spirit level.

• To avoid any risk of the pumping station floating, attach it to the ground using the mounting kit provided.

4.3 HYDRAULIC CONNECTION

NOTICE

⇨ The pumping station must not be used as a control point for piping.
⇨ Prop up the pipes upstream from the pumping station. Make connections without constraints.
⇨ Use suitable means to compensate for thermal expansion of the piping.

4.3.1 Inlet

IMPORTANT

It is recommended that you mount check valves and stop valves on the inlet pipes. These must be mounted so that they do not hinder disassembly of the pumping station.

NOTE

All piping connections must prevent the propagation of noise and be flexible.

The piping is supported.

1. Choose the connection openings to use.

Maintain a minimum slope of 3% on the inlet pipes to ensure proper flow to the plant.

2. To connect the inlet pipes, saw the opening of the inlet pipe to be used. The rear inlet of the double lift system must be opened with a hole saw or a blade; do not use a hammer!

3. Then insert the inlet pipe into the opening.

IMPORTANT

Preferably use the upper inlet.

If it is not possible to use the upper inlet, use the rear inlet located 250 mm from the floor.

As a last resort, the case of connection to the side inlets located 180 mm from the floor is possible under the strict condition that the following measures are observed:

1. Raise the axis of the pipe to 250 mm above the floor of the lifting station, either by lowering the floor under the station (fig. A) or by raising the floor under the connected sanitary installation (fig. B).

Fig. A :

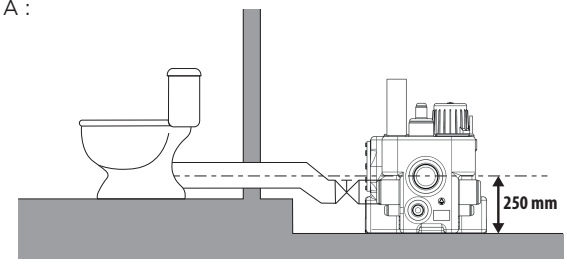
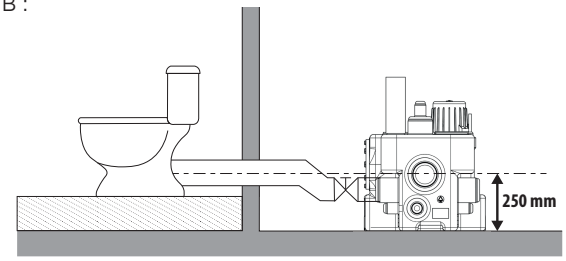


Fig. B :



2. Change the axis of the pipe as close as possible to the station.

NOTE

It is imperative that the level sensor is set correctly so that the pump casing is completely filled for immediate pumping. See 5.2.

NOTICE

Insufficiently filled pump housing.
Danger of de-priming!
⇨ Preferably use the upper inlet.

NOTE

Using inlets lower than the 250 mm inlet can lead to dirt deposits in the inlet lines and in extreme cases to blockage of the line. Therefore, the higher inlet should be used whenever possible.

4.3.2 Discharge

NOTICE

Improper fitting of the discharge pipe.
Leaks and flooding of the installation room!
⇨ The pumping station must not be used as a control point for piping.
⇨ Do not connect other drain pipes to the discharge pipe.

To prevent the risk of back-flow of water from the sewer, install the discharge pipe in a «loop» so that its base, at the highest point, is located above the back-flow level.

Fit a shutoff valve behind the check valve.

A bend DN 50, 90° is mounted as standard on the horizontal pressure discharge of the pump, which ends in a vertical direction drilled with 1"/ internal thread.

The installation of the non-return ball valve(s) included in the scope of delivery in the pressure line of the lifting unit is mandatory

It is recommended to install a shut-off valve behind the non-return ball valve in order to facilitate maintenance and possible replacement of the non-return ball valve.

For double lifting units, a Y-pipe with a DN50 pressure outlet (flange) is included in the scope of delivery.

The pressure pipe must be laid steadily rising and without unnecessary jumps in a bend above the backflow level and then steadily falling to the sewer connection. Pipe and fittings must be supported with pipe clamps or brackets, if necessary.

4.3.3 Ventilation

IMPORTANT

According to the recommendations of EN 12050-1, it must be equipped with a vent above the roof. The pumping station must always be ventilated so that the tank is always at atmospheric pressure. The ventilation must be completely free and air must flow in both directions (no diaphragm valve fitted).

• Connect the station's ventilation pipe Ø75 mm, either directly to the building's ventilation pipe or installed separately and directed above the roof.

• The connection should be made vertically to the ventilation opening using the flexible sleeve.

• The connection must be smell-proof.

• The vent pipe must not be connected to the vent pipe on the inlet side of a grease trap.

NOTICE

Insufficient ventilation.
Risk that the pumping station will not work!
⇨ Do not connect to a mechanically controlled ventilator
⇨ Ventilation must remain free
⇨ Do not block the vent outlet
⇨ Do not install an air intake valve (diaphragm valve).

4.4 ELECTRICAL CONNECTION

DANGER

⇨ Disconnect electrical power before working on the unit!

DANGER

Electrical connection work performed by an unqualified individual.

Risk of death by electric shock!

⇨ The electrical connection must be performed by a qualified and licensed electrician.

⇨ The electrical installation must meet the current standards in the country.

• All electrical installations used must comply with IEC 60364/ NF C 15-100, which means that sockets must, for example, be equipped with earth terminals.

• The electrical power supply must be protected with a high sensitivity circuit breaker set to 30 mA upstream of the control unit, or to prevent a failure of the control unit when the residual current circuit breaker responds, one residual current circuit breaker per pump must be installed between the control box and the lifting station.

This connection must be used exclusively for the **Sanicubic** power supply.

• Please observe the regulations of EN 12056-4.

• In the case of a three-phase current connection, the external protection must generally be 3-pole mechanically interlocked with automatic circuit breakers. This ensures complete disconnection from the mains and prevents 2-phase operation.

• All electrical devices such as control system, alarm transmitter and socket must be installed in dry rooms so that they are protected against flooding.

• The motor can overheat due to overload. In case of overheating, never touch the hot surfaces on the motor.

WARNING

Hot surface.

Burn Hazards!

⇨ Never touch the surface of the motor housing without protective equipment.

The wiring diagram of the lifting station is available in the instructions manual fo the control box and should be kept there to facilitate the work of the maintenance and service personnel.

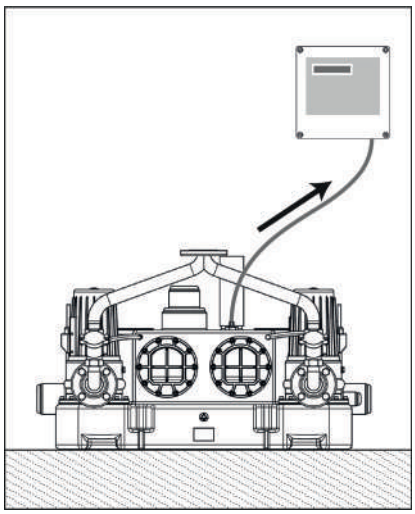
5. COMMISSIONING

5.1 PREPARATION

• Before commissioning, all connections have to be checked again for correct installation. It must have been made sure that the safety regulations have been complied with.

• Install and connect the control box: refer to the installation instructions supplied with the control box.

• The control must be installed in such a way that the blue pneumatic hose for the level control can be laid rising steadily from the lifting unit to the connection at the switch box.



This is the only way to ensure proper functionality of the automatic control.

CAUTION

Pneumatic hose with downward slope, low points.
Control line kinked or squeezed.
Control line extended.

Risk of condensation!

Risk of signal disruption !

⇨ Follow the installation rules above and in the control box manual.

5.2 COMMISSIONING OPERATIONS.

The lifting station has been prepared by the factory for using DN 100 inlet with 250 mm inlet height 250 mm. If only the upper inlet is used, other switching points can be set on the control for increasing the switching volume.

Inlet height	Switch-off point N1	Switch-on point N2	Peak load on N3 Double system only	Flod HW	Switching volume simple/double
250 mm	30 mm	140 mm	160 mm	180 mm	26 L / 47 L
428 mm	30 mm	250 mm	260 mm	290 mm	45 L / 80 L

Switch on the power.

• Three-phase installation:

– Check the phase connection:

The control box is equipped with a phase monitor to prevent two-phase operation. Force start the pump (pumps, one after the other on two-pump systems). In case of a «Phase» alarm, switch off the power at the station, connect the 3 phases correctly at the control box.

• Check the direction of rotation of the pump:

Using a coin, unscrew the small cover on top of the pump. The upper part of the motor shaft is now visible and marked with a trace of paint. Turn the pump on by hand. Observe the direction of rotation of the mark and compare it with the direction of the arrow (motor housing). If they are not identical, switch off the power and invert 2 of the phases at the control box. Screw the cover back on. Two-pumps installation: do the same with the other pump.

WARNING

Presence of cutting blades.

Risk of pinching, cutting or amputating fingers or other body parts.

⇨ Keep away from moving parts.

• On the control box, press the button «Auto» to carry a test Run:

– Open the inspection cover.

– Fill the collecting tank via the normal inlet (washbasin, toilet...) until the pump switches on. The station must automatically switch on, pump the tank empty and siwtch off again. After switching off, no wtare may flow from the pressure line back into the tank.

– Double installations : both pumps must be switched on alternately.

– Correct the delay time according to the installation conditions and the discharge height so that the pump empties the collection tank as much as possible and only runs briefly in snore mode (louder noise during pumping). The dip tube must no longer be immersed in the liquid at the end of the pumping process (display 0 cm in the control). The delay time can be changed on the control box.

– During the initial test run, check pipes for tightness and reseal them, if necessary.

– Close the inspection cover.

If the station is working properly, leave it in automatic mode.

• Setting at the control box:

Activate the option «Automatic start every 24 hours» («24h start» then «is activated» on the display of the control box). The pump(s) is (are) then activated briefly even if no load is applied via the switch-on level. This prevents blocking due to non-use.

5.3 OPERATING LIMITS

NOTICE

Pressure and temperature limits exceeded.

Leakage of hot or toxic fluid!

⇨ Observe the operating specifications in the documentation.

⇨ Avoid running the pump with the valve closed.

⇨ Dry running, without pumped fluid, must be avoided.

When in use, observe the following parameters and values:

Parameter	Value
Max. allowed temperature of the fluid	35 °C up to 55 °C when pumped 5 min max.
Operating mode	Intermittent service S3 25%

• The lifting unit is not designed for continuous operation! The conveying data stated on the factory plate apply only for intermittent periodic duty (S3 25 %).

• The maximum permissible feed flow must always be smaller than the feed volume of a pump (see 3.6).

• Do not leave the lifting station unused for a long time (see 5.2).

NOTICE

Lifting station not in use for a long time.

Risk of seal blockage.

⇨ Activate the option «24 hours start» on the control box.

⇨ Do not disconnect the power supply to the lifting station when not in use.

6. DECOMMISSIONING

1. Close the valve on the inlet pipes.
2. Drain the tank by pressing the forced mode button on the control box. Close the valve on the discharge pipes.
3. Switch off the electrical power supply and record the installation.
4. Inspect the hydraulic parts and shredding blades (depending on the model). Clean them if necessary.

WARNING

Presence of cutting blades.

Risk of pinching, cutting or amputating fingers or other body parts.

⇨ Even when switched off, care must be taken when handling a pump.

⇨ Keep away from moving parts.

5. Clean the tank.

7. CLEANING/MAINTENANCE

DANGER

⇨ **Disconnect electrical power before working on the unit!**

WARNING

Work performed on the pumping station by unqualified staff.

Risk of injury !

⇨ Repairs and maintenance must be performed by specially trained staff

WARNING

Work on the pumping station without adequate preparation.

Risk of injury!

⇨ Properly stop the pumping station and secure it against inadvertent operation.

⇨ Close the inlet valves.

⇨ Drain the pumping station.

⇨ Close the valve on the discharge pipes

⇨ Allow the pumping station to cool to room temperature.

7.1 INSPECTION AND MAINTENANCE SCHEDULE.

In accordance with EN 12056-4, pumping stations must be maintained to ensure the proper disposal of wastewater and to detect and eliminate malfunctions at an early stage.

The proper functioning of pumping stations must be checked by the user once a month by observing at least two operating cycles. While doing so, attention has to be paid for abnormalities, e.g unusual running noises of the pump. If irregularities are noted, call qualified staff.

According to DIN EN 12056-4, lifting units have to be regularly checked within the following time intervals:

- every 12 months in case of installation in detached houses,
- every 6 months in apartment blocks,
- every 3 months in case of installation in commercial and industrial enterprises.

In order to guarantee permanent operational safety of the lifting unit, we recommend to conclude a maintenance agreement.

7.2 CHECKLIST FOR INSPECTION AND MAINTENANCE

Check the power supply. Compare the values with those of the rating plate.

Check the connection of the power supply to the earth.

Check the connection of the power supply to a 30 mA GFCI breaker.

Check the proper operation of the motors by pressing the forced mode buttons. If abnormal, make sure the pump is not clogged, check the resistance values of the engine coils.

Three-phase version: check the motor rotation direction.

Perform a functional test over several cycles.

Check the correct installation and state of wear of the flexible couplings.

Check the proper operation and effectiveness of the alarm device.

Check the proper operation and seal of the shut-off valves and non-return valves.

Dismount and clean the pitot tube.

Check the control line, check connections on the tank and on the control box.

Consult the alarm log (control box)

Consult the pump operation log (control box)

Inspect the hydraulic parts and cutting blades. Clean them if necessary.

WARNING

Presence of cutting blades.

Risk of pinching, cutting or amputating fingers or other body parts.

⇨ Keep away from moving parts.

Advise and/or train operating staff.

7.3 COLLECTING TANK

Inspect the tank, check for possible deposits, the presence of grease and foreign bodies. Thoroughly clean the tank and remove foreign bodies.

7.4 MAINTENANCE CONTRACT

As with any technical, high-performance equipment, **Sanicubic GR** pumping stations must be maintained to ensure a sustainable level of performance. We recommend you take out a maintenance contract with a qualified company to carry out regular inspection and maintenance work. For more information, please contact us.

8. INCIDENTS, CAUSES AND SOLUTIONS

DANGER

⇨ **Disconnect electrical power before working on the unit!**

Malfunction	Cause	Remedies
Motor does not rotate.	Too low voltage, voltage missing.	Check voltage supply.
	Incorrect power connection.	Correction.
	Power cable defective.	Replacement (after-sales service).
	Fault on the capacitor - only with single-phase station.	Replacement (after-sales service).
	Impeller blocked.	Clean.
	Motor protection switched off due to overheating, blockage, voltage error.	Check/Customer service.
	Control error.	Check/Customer service.
	Pneumatic hose or connection leaky.	Check/Customer service.
	Motor defective.	Replacement (after-sales service).
Motor rotates, but does not deliver.	Impeller clogged or worn.	Clean/Replace.
	Check valve clogged.	Clean.
	Shut-off valve clogged or closed.	Clean/Open.
	Pressure line clogged.	Clean.
	Intake socket clogged.	Clean.
	Direction of rotation incorrect.	Correction.
	Water shortage in the tank.	Switch off/Customer service.
	Tank ventilation clogged.	Clean.
	Pump housing ventilation clogged.	Clean.
Motor rotates, but switches off.	Voltage wrong or fluctuates.	Correction/Customer service.
	Overcurrent release incorrectly set.	Set properly.
	Power consumption too high.	Customer service.
Motor does not switch off.	Control error.	Customer service.

9. STANDARDS

The lifting stations **Sanicubic GR** conform to Low Voltage, EMC and Machinery directives, and to EN 12050-1 Construction Products Regulation.

10. GUARANTEE

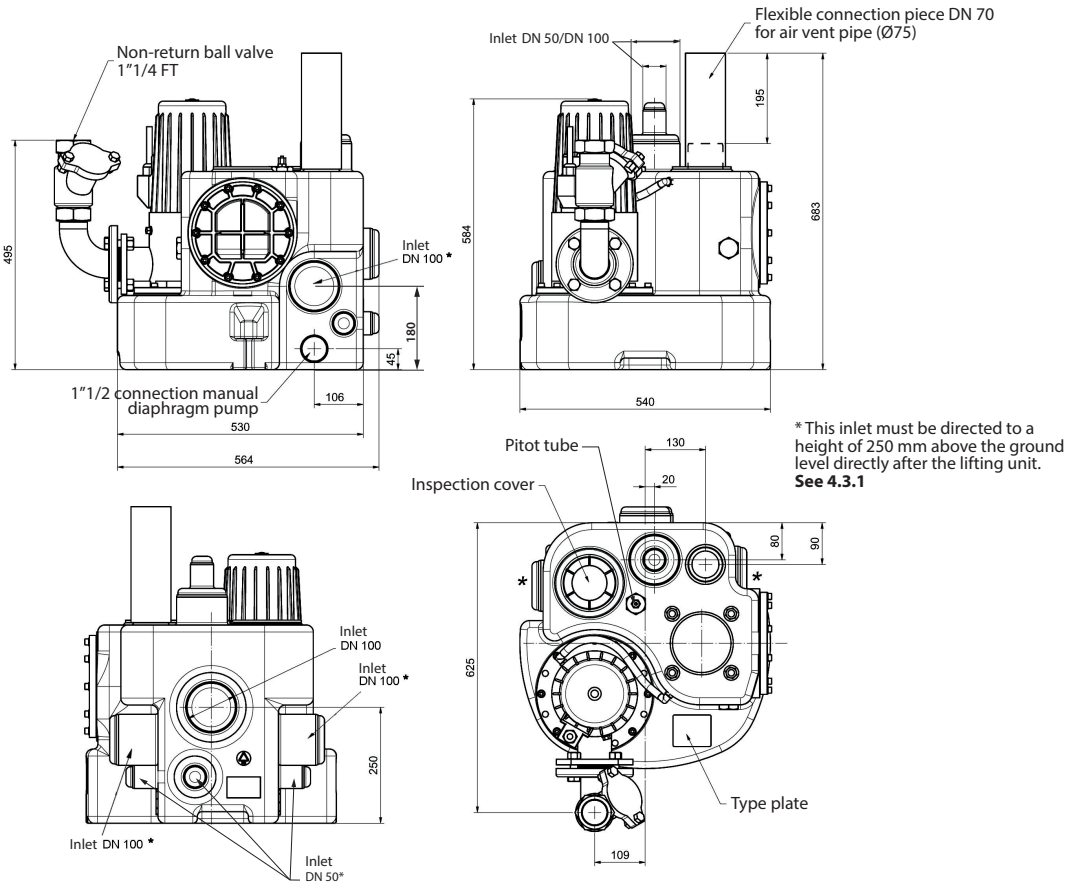
As the manufacturer, we provide a 24-month warranty for this appliance from the date of purchase.

Your reciept of purchase is valid as proof. Within this warranty period, we will, at our discretion, remedy all defects attributable to material or manufacturing faults by repair or replacement free of charge.

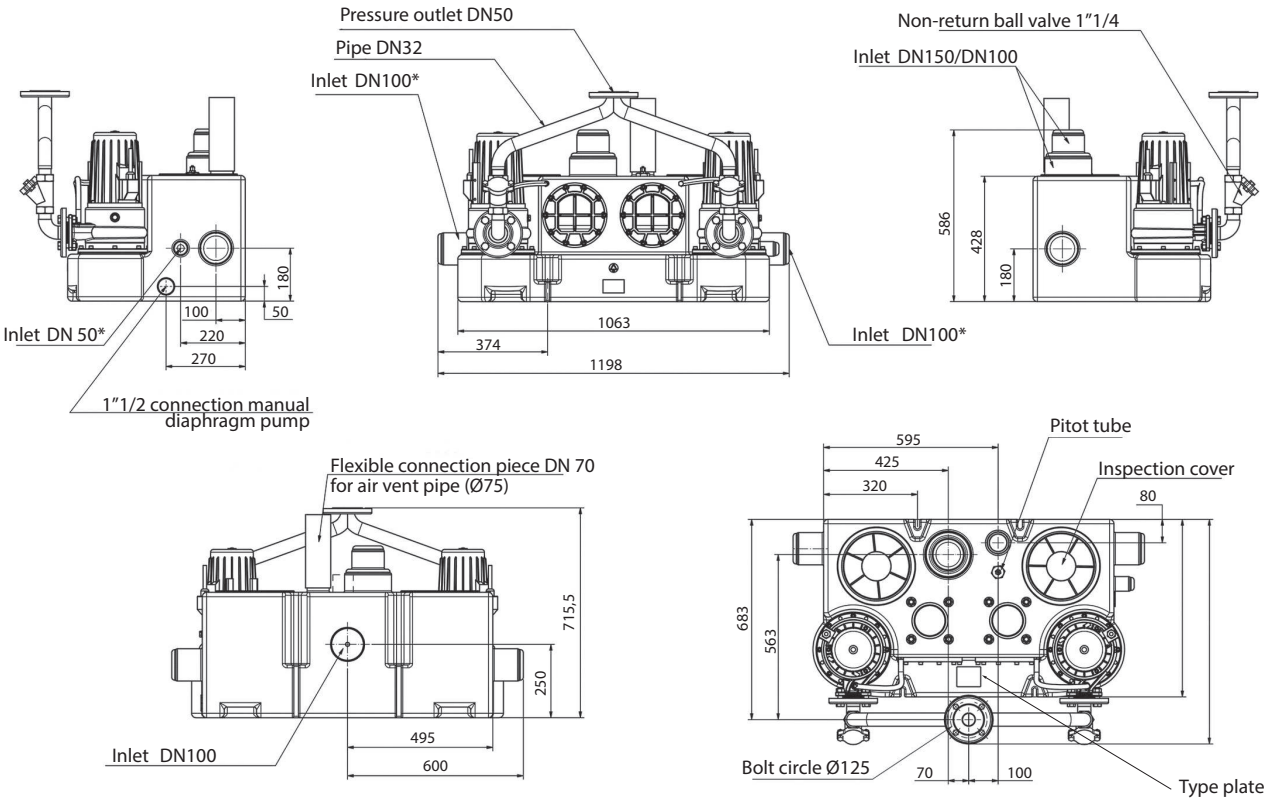
Damage caused by improper installation and/or use, and wear and tear is excluded from the warranty. We shall not be liable for consequential damage caused by failure of the device.

APPENDIX A: OVERVIEW

SANICUBIC 1 GR



SANICUBIC 2 GR



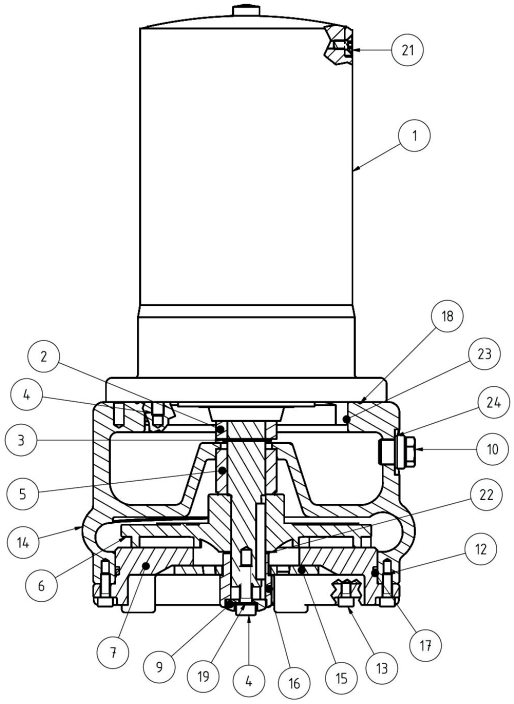
* This inlet must be directed to a height of 250 mm above the ground level directly after the lifting unit.
See 4.3.1

APPENDIX B: LIST OF SPARE PARTS

LIFTING STATION

QUANTITY	DESIGNATION	ART-No
1	Tank Sanicubic GR SE 71	117337
(1)	Tank Sanicubic 2 GR SE 71	
1 (2)	Suction nozzle Sanicubic GR SE 71	17481
1 (2)	Hose nozzle straight R 3/8“	117191
1	Pitot tube complete	60219
1	Inspection cover with sealing	117012
(2)	Inspection cover duplex unit	
(2)	Sealing for inspection cover duplex unit	
1	Control Box Sanicubic GR SE 71 230 V	200102
1	Control Box Sanicubic GR SE 71 400 V	255302
(1)	Control Box Sanicubic 2 GR SE 71 400 V	

PUMP



ITEM	QUANTITY	DESIGNATION	ART-No
	1	Pump for Sanicubic 1 GR SE71.1 S	17749
	1 (2)	Pump for Sanicubic GR SE71.1 T	17463
	1 (2)	Pump for Sanicubic GR SE71.2 T	17562
	1 (2)	Pump for Sanicubic GR SE71.3 T	17563
	1 (2)	Pump for Sanicubic GR SE71.4 T	17564
1	1	Pot-type motor Sanicubic 1 GR SE71.1 S	17587
1	1	Pot-type motor Sanicubic GR SE71.1 T and SE71.2 T	17586
1	1	Pot-type motor Sanicubic GR SE71.3 T and SE71.4 T	17588
2	1	GLRD LD1/25-G38 - motor side	17356
3	1	Securing collar DIN471-A25x1,2	11679
4	5	Hexagonal socket head screw M8x25-A2	16381
5	1	GLRD MG1/25-G6 medium side	17377
6	1	Impeller Sanipump® ZFS 71.1 Ø135	17373
6	1	Impeller Sanipump® ZFS 71.2 Ø145	17371
6	1	Impeller Sanipump® ZFS 71.3 Ø160	17372
6	1	Impeller Sanipump® ZFS 71.4 Ø170	17351
7	1	Cover Sanipump® ZFS 71 for tank top mounting	17391
	3	Countersunk screw M5x10-A2 DIN965	17109
9	1	Knife fitting Sanipump® ZFS 71	17352
10	1	Sealing screw, bea. G 3/8 (Ventilation)	11640
10	1	Sealing screw G3/8 DIN910 (Oil)	11639
12	4	Hexagonal socket head screw M6x20-A2	15320
13	4	Hexagonal socket head screw M6x10-A2	10008
14	1	Pump housing Sanipump® ZFS 71	17355
15	1	Cutting plate Sanipump® ZFS 71	17353
16	1	Cutting knife Sanipump® ZFS 71	17354
17	1	O-ring 160 x 3,5-NBR70	11822
18	1	O-ring 147 x 3	11629
19	1	Sealing ring 8x14x1 Cu	11672
21	2	Hexagonal socket head screw M6x12-A2 DIN 912	10666
22	2	Shim ring 10x30x0,1 1.4301	17375
22	2	Shim ring 10x30x0,5 1.4301	17376
23	1	O-ring 125x2-NBR70	11656
24	2	Sealing ring 17x22x1,5 Cu for Pos 230	11646
	4	Tooth lock washers S8x13x0,8 A2	11645
	0,4L	Wisura technical white oil NFW	11690