SFA

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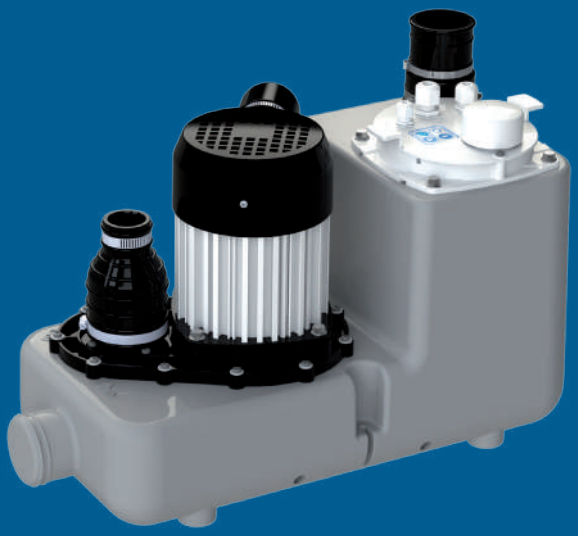
Sanicom® 1



Sanicom® 2

- (FR) Notice de service/montage
- (EN) Operating/installation manual
- (DE) Bedienungs-/Installationsanleitung
- (IT) Manuale per l'uso e l'installazione
- (ES) Manual de funcionamento
- (PT) Manual de instalação/utilização
- (NL) Gebruikers-/installatiehandleiding
- (SV) Servicehandbok
- (FI) Käyttöohjeet
- (DA) Drifts/installationsvejledning
- (PL) Instrukcja obsługi/montażu
- (RU) Руководство по эксплуатации и установке
- (RO) Manual de utilizare/instalare
- (CS) Návod k obsluze/instalaci
- (ZH) 操作/安装指南

CE

1. SAFETY

This device may be used by children who are at least 8 years old, by people with reduced physical, sensory or mental capacities or those without knowledge or experience, if they are properly supervised and if the instructions relating to using the device completely safely have been given to them and the associated risks have been understood. Children must not play with the device. Cleaning and maintenance undertaken by the user must not be carried out by unsupervised children.

1.1 INFORMATIONS REGARDING INSTRUCTIONS

This operating and installation manual contains important instructions to follow for the fitting, operation and maintenance of the **Sanicom** pumping station. Following these instructions guarantees safe operation and prevents injury and property damage.

Before fitting and commissioning the pumping station, the qualified installer/user concerned must read and understand all these instructions.

Please follow the safety instructions in every section.

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 INTENDED USE

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

The pumping station must only be operated in technically perfect conditions.

The pumping station must only pump the fluids described in this documentation.

The pumping station must never operate without pumped fluid.

Never exceed the usage limits defined in the documentation.

The safe operation of the lifting station is only ensured if it is used as described in this manual.

1.3 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.

1.4 SAFETY INSTRUCTIONS FOR MAINTENANCE, INSPECTION AND INSTALLATION

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.

Before working on the pumping station, switch it off and unplug the pumping station's power plug.

You must follow the procedure for shutting down the pumping station described in this operating manual.

Pumping stations that convey hazardous media have to be decontaminated. Prior to initial (re-)start-up, you are to take heed of the points listed in the section Commissioning (see *5. Commissioning*)

Keep unauthorised persons (e.g. children) away from the lifting station.

Observe all safety instructions in these operating and installation manual.

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

1.5 SAFETY INSTRUCTIONS FOR ELECTRICAL CONNECTION

The electrical installation must be done by a qualified electrical engineer.

The device's power supply must be connected to ground (class I) and protected by a high sensitivity differential breaker (30 mA). Devices without plug must be connected to a main switch on the power supply which disconnects all poles (contact separation distance of at least 3 mm). The connection must be used exclusively to provide the power of the product.

Connect the device to the mains according to the country's standards.

If the power cord is damaged, to prevent possible danger, it must be replaced by the manufacturer, customer service team or a similarly qualified individual.

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

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

2. TRANSPORT, TEMPORARY STORAGE, RETURNS, DISPOSAL

2.1 RECEIVING INSPECTION

When receiving goods, check the condition of the pumping 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! ⇨ Observe the indicated weight. ⇨ Never suspend the pumping station by the power cord. ⇨ Use suitable means of transport.

Keep the pumping station horizontal when moving it.

Choose suitable means of transport according to the weight table :

	GROSS WEIGHT
Sanicom 1	11.5 kg
Sanicom 2	25 kg

The pumping station has been inspected to make sure there is no damage due to transport.

2.3 TEMPORARY STORAGE

- The station can be conserved in a cool, dark, dry and frost-free site.
- The station must be kept 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 preservation of our environment.

3. DESCRIPTION

Sanicom is a lifting pump for greywater originating from sinks, clothes washing machines, dishwashers, showers or baths and basins, used in private or commercial applications (restaurants, hairdressings salons,...). **Sanicom** can pump out hot water.

The unit has a high performance level, and is safe and reliable, provided all the rules for installation and maintenance in this notice are strictly followed.

Unauthorised pumped fluids:

The following liquids and substances are banned:

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

• Wastewater contaminated by human excrement (black water).

• Wastewater containing harmful substances (for example, untreated greasy waste from restaurants). Pumping these liquids and substances requires the fitting of a compliant grease trap, in accordance with EN1825.

• Rain water.

Do not dispose of concentrated chemical products (acids, solvents, bases, oxidants, reducers, etc.) into sanitary ware connected to the **Sanicom**. Only the discharge of diluted products, followed by rinsing with clean water, may be allowed in exceptional cases.

3.1 OPERATING PRINCIPLE

Sanicom 1 contains 1 pump.

The tank is equipped with 2 tubes, one controls motor activation, and the second controls the alarm system.

Sanicom 2 contains two independent pumps. Both pumps operate alternately to ensure even ware. In case of surcharge operation, both motors run simultaneously (or if one pump fails, the other takes over).

The tank is equipped with three dip tubes, two of which control motor activation, and the third controls the alarm system.

3.2 TECHNICAL DATA

	SANICOM 1	SANICOM 2
Type	P 95	R 90
Maximum recommended vertical pumping height	8 m	10 m
Maximum flow rate	12 m³/h	18 m³/h
Voltage	220-240 V	220-240 V
Frequency	50-60 Hz	50-60 Hz
Maximum power consumption	750 W	3 000 W
Maximum current consumption	3.3 A	13 A
Electrical class	I	I
Protection index	IP X4	IP X4
Max. temperature permissible 5 min/h	90°C	90°C
Gross weight	11.5 kg	25 kg

4. INSTALLATION

The **Sanicom** installation must comply with EN12056-4 standards. All work to install the equipment, put it into service and carry out maintenance must be done by a qualified professional specialist.

4.1 FITTING

• The space in which **Sanicom** is installed must be large enough to leave at least 600 mm around the unit for easy maintenance. This space must be well lit, ventilated, and must never be immersed in water and must be protected from frost.

• Isolation valves should be fitted to the inlet pipework and discharge pipework to isolate the unit in case of the need for service.

• This discharge pipe must be designed so as to prevent back-flow from the sewers. Backflow is avoided by installing an anti-backflow loop located above the back-flow level.

Comment: unless otherwise stated locally, the back-flow level corresponds to the level of the road or pavements,...

• 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). Do not connect to a mechanically controlled ventilator.

• The alarm signal is always visible to the user. If necessary, use an external alarm contact switch (see *7.3 Option of connection to an external alarm (Sanicom 2)*) or the optional SFA wired alarm box.

4.2 FITTING

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

DANGER

⇨ 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.

• Choose the connection openings to use.
• Cut the tip of the corresponding boss with a saw.
• Deburr using a file.

The piping is supported.

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

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.

Sanicom 1: the discharge outlet incorporates a non-return valve and is fitted with a Ø 32 mm sleeve.

Sanicom 2: the discharge outlet of each motor incorporates a non-return valve. They are joined by a Ø 50 mm Y-sleeve.

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.

4.3.3 Ventilation

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).

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).

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

Connect the ND50 vent pipe vertically to the vent opening with the flexible couplings. The connection must be smell-proof.

4.4 ELECTRICAL CONNECTION

DANGER

Electrical connection work performed by an unqualified individual.
Risk of death by electric shock!
⇨ Do not make the electrical connection until the final connections are completed
⇨ The electrical connection must be performed by a qualified and licensed electrician.
⇨ The electrical installation must meet the current standards in the country.

NOTICE

Wrong supply voltage.
Damage to the pumping station!
⇨ The supply voltage must not differ by more than 6% of the rated voltage specified on the rating plate.

The power supply must be class 1. The device must be connected to an earthed junction box. The electrical power supply must be protected with a high sensitivity circuit breaker set to 30 mA. This connection must be used exclusively for the **Sanicom** power supply. If the cord of this device is damaged, it must be replaced by the manufacturer or its after-sales service in order to avoid any danger to users.

5. COMMISSIONING

Once the plumbing and electrical connections have been made, check that the connections are watertight by letting water flow successively through each inlet used.

Make sure that the unit is operating correctly by carrying out at least two start cycles with water to test the system.

6. USE

In the event of power failure, stop all water flow to the appliances connected to the Sanicom.

WARNING

Hot surface.
Burn Hazards!
⇨ Never touch the surface of the motor housing without protective equipment.

Limit of use

DANGER

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.

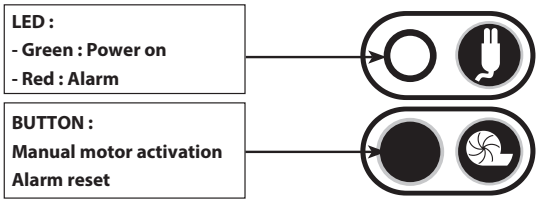
When in use, observe the following parameters and values:

PARAMETER	VALUE
Max. allowed temperature of the fluid	up to 90 °C when pumped 5 minutes max.
Max. room temperature	50°C
pH	4-10

7. CONTROL BOX OPERATION

7.1 SANICOM 1: CONTROL KEYPAD OPERATION

7.1.1 General alarms



Mains alarm:
If the LED is off, there is no power supply.

Level alarm:
If the water level inside the device is abnormally high, the high level diptube microswitch will activate the motor and the alarm LED lights up red. If this LED flashes red, it indicates a detection problem for the normal water level (Long dip tube).

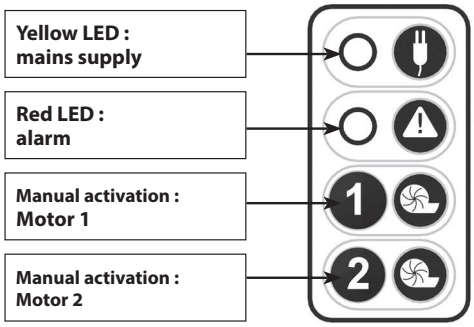
Time alarm:
If the motor runs continuously for more than 1 minute, the red LED alarm lights up.

7.1.2 Reset alarm

The button on the keypad will only allow you to turn off the red LED (it will turn green) if the problem that triggered the alarm has been resolved.

7.2 SANICOM 2 : REMOTE CONTROL BOX OPERATION

7.2.1 General alarms



Mains alarm:
In case of power failure (or when unplugging the device): the buzzer is triggered + the red alarm LED lights up + the yellow mains LED flashes.

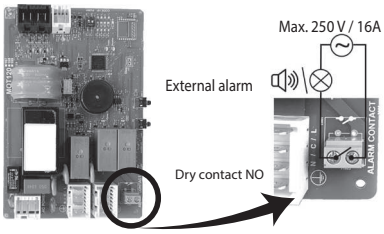
Level alarm:
If the water level inside the device is abnormally high: the buzzer is triggered + the red alarm LED lights up + both motors start-up. If this LED flashes red, it indicates a detection problem for the normal water level (Long dip tube).

Time alarm:
If one of the two motors runs for more than 1 minute: the buzzer is triggered + the red alarm LED lights up + the other motor starts-up.

7.2.2 General alarm reset

If the problem that triggered an alarm above disappears, the buzzer stops, but the red alarm LED remains on until the next normal cycle.
One of the two keypad keys will stop the buzzer in any cases, but it will only turn off the red LED if the problem that caused the alarm has been resolved. The alarms of the remote box also remain active until the problem has been solved. This prevents the system from being «abandoned» in default.

7.3 OPTION OF CONNECTION TO AN EXTERNAL ALARM (SANICOM 2)



Option of externalising the alarm signal. Dry contact (no voltage) NO (normally open) operated by a relay.

Alarm contact can be connected to a powered system. This contact closes as soon as the station is in alarm mode (except in the case of area alarm) and remains closed as long as the alarm sounds.

See Wiring diagrams page **62**

8. INSPECTION AND MAINTENANCE

DANGER

⇨ **Disconnect before any intervention !**

8.1 INSPECTION

The proper running of the wastewater lifting station must be checked by user once a month observing at least two starting cycles.

8.2 MAINTENANCE

The lifting station has to be regularly maintained by a qualified person. Intervals should:
- Every 3 months for lifting stations installed in commercial premises
- Every 6 months for lifting stations installed in collective buildings
- Once a year for lifting stations installed in individual houses

During maintenance, the following should be done:
a) Check the watertightness of connections by checking pipework to and from the lifting station
b) Activate the gate valves, check their smooth function and their watertightness (grease if necessary)
c) Open and clean up the non return-valve system, check it is functioning correctly
d) Clean up the pumping system and its connections, check the impeller and the cutting system (for macerating pumps)
e) Clean up the inside of the collecting tank
f) Visually check the lifting station's electrical control box functions.
Once the checks have been made, restart the lifting station in compliance with the manual instructions to check its proper running.
A report should be issued detailing the checks and any notable points.
If non-compliances that cannot be solved have been found, the qualified person in charge of the maintenance work has to immediately inform the lifting station's user.

8.3 MAINTENANCE CONTRACT

It is advised to the users to establish a maintenance contract for regular maintenance and checking.

9. FAULT FINDING GUIDE

DANGER

⇨ **Disconnect before any intervention !**

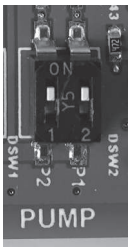
9.1 ALARM ON SANICOM 1 DEVICE

FAULT DETECTED	POSSIBLE CAUSES	ACTION TO BE TAKEN
Flashing red alarm LED	• Water level detection system faulty	• Consult SFA after-sales service
Steady red alarm LED	• Blocked vent pipe • Blocked discharge • Blocked pump or out of order • Discharge too high or excessive inflow	• Check that air flows freely in both directions in the vent pipe • Review installation • Consult the SFA customer services
LED off	• Power outage • Faulty printed circuit board	• Check the electrical system • Consult the SFA customer services

9.2 ALARM ON THE SANICOM 2 CONTROL BOX

FAULT DETECTED	POSSIBLE CAUSES	ACTION TO BE TAKEN
Siren + flashing red general alarm LED	• Water level detection system faulty	• Consult the SFA customer services
Siren + steady red general alarm LED	• Blocked vent pipe • The device has encountered the following problem: blocked pipe, pump(s) blocked • The device has encountered a power failure	• Check that air flows freely in both directions in the vent pipe • Press the manual start button to reset the device (alarm off) • Consult SFA customer services
Siren + general alarm LED + flashing yellow mains LED	• Mains cut	• To stop the siren, press on the Force Start button • Check the electrical system • Consult the SFA customer services

10. DISMANTLING



INSTRUCTIONS RESERVED EXCLUSIVELY FOR QUALIFIED PROFESSIONAL SPECIALISTS

If one of the motors cannot be made to operate correctly, use of that motor can be “disabled” by setting the corresponding switch on the board (P1, P2: Switches 1 and 2 for motors 1 and 2).

The motor thus “disabled” can be removed. The unit operates on the other motor.

11. COMPLIANCE WITH STANDARDS

This device complies with EN 12050-2 (Wastewater lifting plants for faecal-free wastewater) of the Construction Products Regulation and with the European Low Voltage, Electromagnetic Compatibility and Machine Directives.

12. GUARANTEE

2 years guarantee as from its date of purchase subject to correct installation and correct use.

Any damage due to foreign bodies such as cotton, condoms, sanitary towels, wet wipes, food, hair, metal, wood or plastic objects, will not be under guarantee. Solvents, acids and other chemicals can also cause damage to the unit, and will invalidate the guarantee.