

SANIMARIN SFA

106

02.04



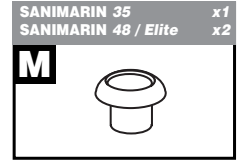
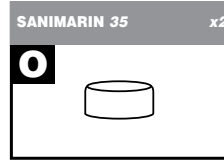
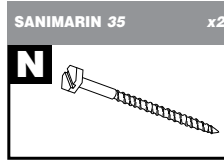
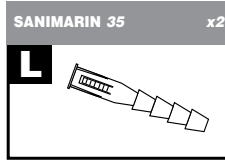
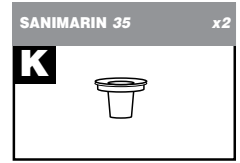
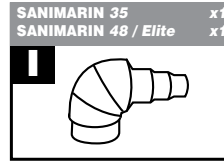
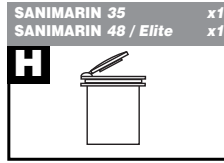
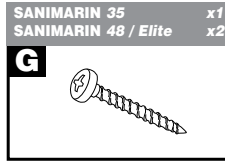
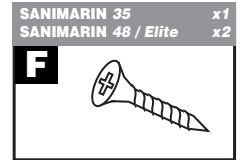
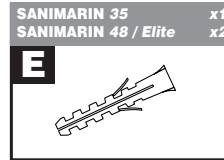
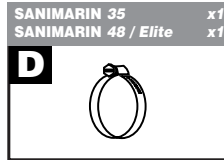
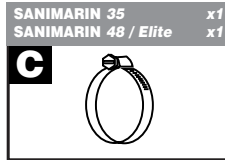
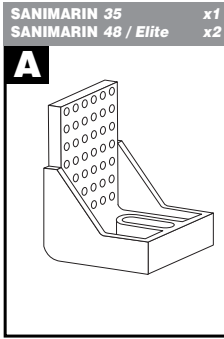
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Leer atentamente y conservar a título de información • Bitte sorgfältig lesen und zum Nachschlagen aufbewahren
Da leggere attentamente e conservare a titolo di informazione • Zorgvuldig doorlezen en ter informatie bewaren.

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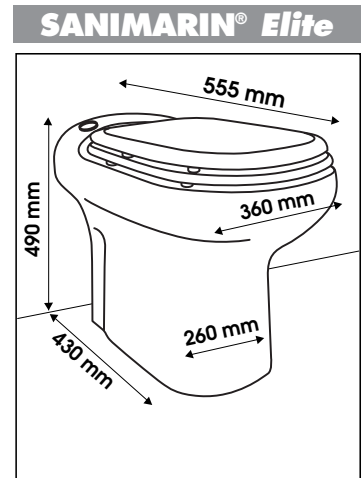
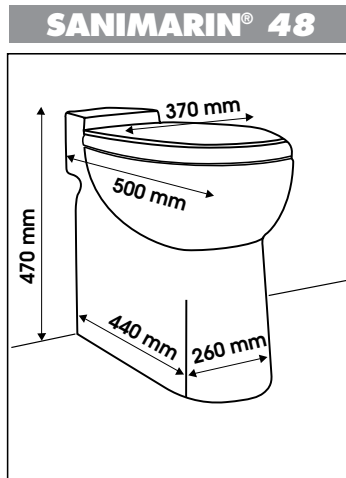
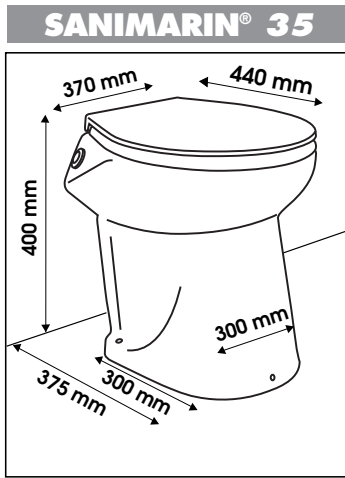
NOTICE D'INSTALLATION • INSTALLATION INSTRUCTIONS
INSTRUCCIONES DE INSTALACIÓN • INSTALLATIONSANLEITUNG
ISTRUZIONI PER L'INSTALLAZIONE • INSTALLATIE VOORSCHRIFTEN

SANIMARIN® 35 • SANIMARIN® 48 • SANIMARIN® Elite

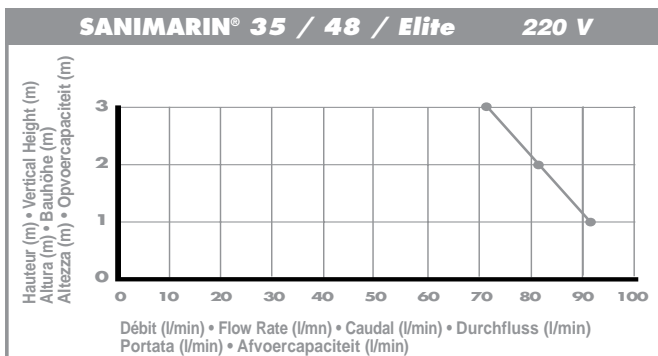
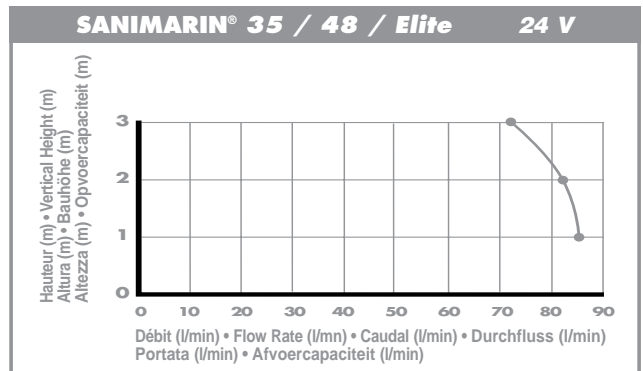
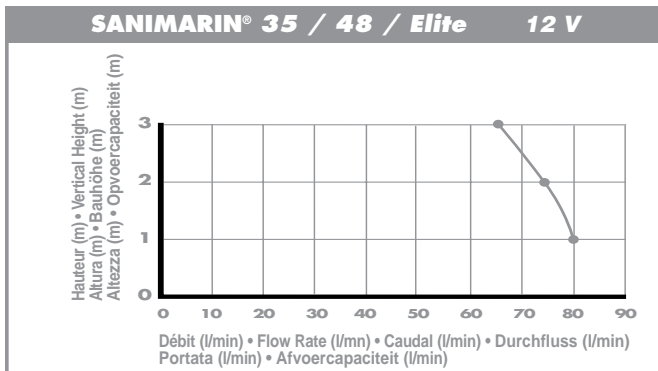
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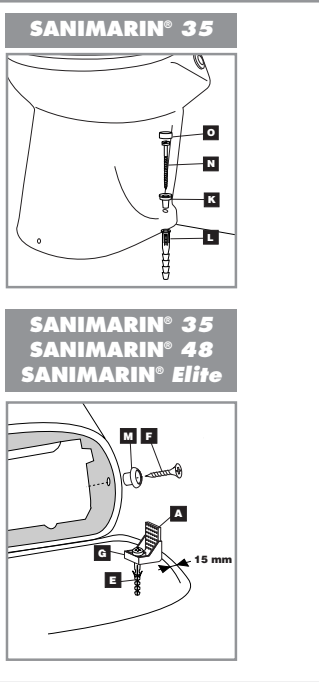
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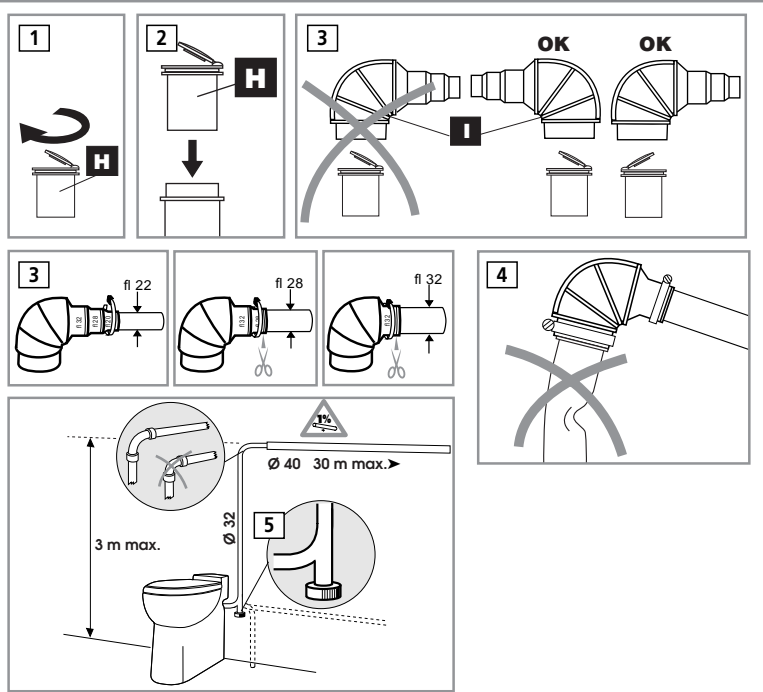
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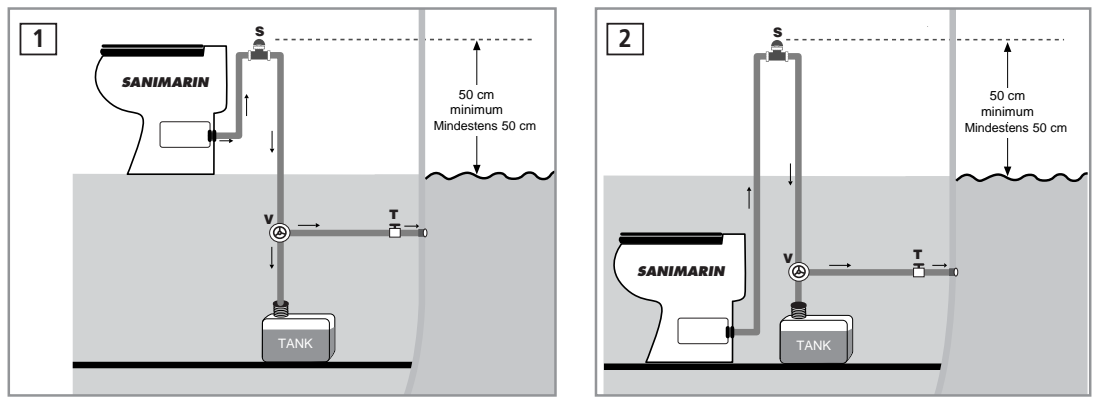
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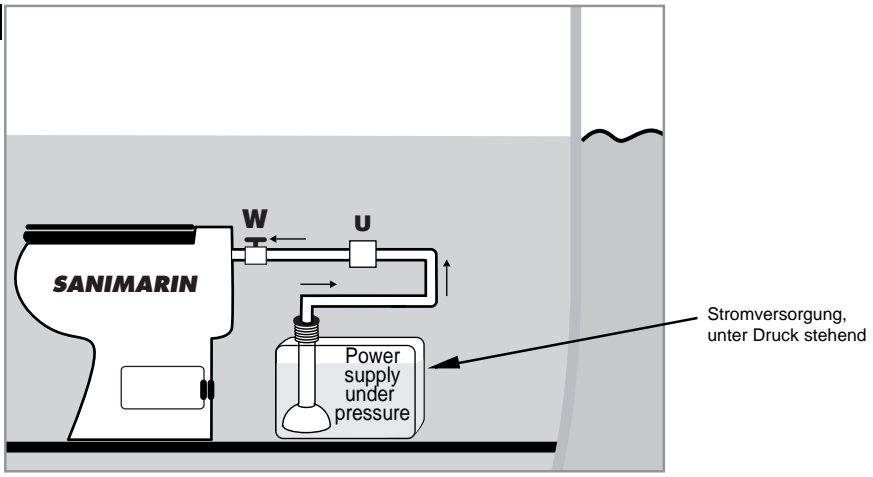
6b



6c



6d



EN 60335-1
EN 60335-2-41

SANIMARIN® 35 / 48 / Elite
Société Française d'Assainissement
CS40-CLV50 / DN32
220-240 V - 700 W - IP44





SANIMARIN® 35 / 48 / Elite
Société Française d'Assainissement
12 V = 520 W - 24 V = 650 W

1 WARNING

SANIMARIN® is a toilet equipped with a macerator pump designed to flush wastes. It is intended for domestic use only. All the installation and maintenance instructions set out in this document must be observed.

Specifically, the instructions identified by the following symbols:

"  " symbol indicating that failure to respect could lead to personal safety risks

"  " symbol indicating the presence of an electrical risk

"**CAUTION**" an indication that failure to respect could compromise the proper functioning of the unit

For any further information, please contact our customer service.

OPERATING PRINCIPLE

An electronic circuit board having the following functions controls the **SANIMARIN®**

- **Eco cycle**, press the push button twice. The cycle lasts 13 seconds.
Water consumption: 1.7 litres.
- **Normal cycle**, press the push button once.
The cycle lasts 25 seconds.
Water consumption: 3.3 litres.

2-second burst

- Hold down the push button for complete discharge of toilet bowl.

2 LIST OF PARTS INCLUDED

3 DIMENSIONS

4 FIELD OF APPLICATION AND TECHNICAL DATA SANIMARIN® 35 / 48 / Elite

Draining applications

Voltage	12V	24V	220V
Max. vertical draining	3 m	3 m	3 m
Max. horizontal draining	30 m	30 m	30 m
Nominal strength	280W	450W	800W
Electrical class	III	III	I
Type	-	-	CS40

Net weight	SANIMARIN® Elite	26,5 Kg
	SANIMARIN® 48	25,4 Kg
	SANIMARIN® 35	21 Kg

CAUTION: any application other than those described herein is prohibited.

5 PERFORMANCE CURVE

6 INSTALLATION







6a TOILET INSTALLATION

SANIMARIN® 35.


Place the toilet temporarily at the desired location. Mark the location of the screws. Remove toilet. Drill through floor covering and fasten toilet.

6b DRAIN MECHANISM CONNECTION


SANIMARIN 35 / SANIMARIN 48 / SANIMARIN Elite : 12, 24, 120 et 220 V


- 1 - Position the opening of the non-return valve flap  toward the side the discharge elbow will face.
- 2 - Push the check valve body  into the rubber drain hose.
- 3 - Slip the elbow over the non-return valve assemble  and tighten it on the drain hose with the worm clamp . Insert a 1-inch connection pipe into the elbow and connect a 1-inch drain hose to it and tighten with a worm clamp .
- 4 -  **Caution** do not bend or twist rubber drain hose.
- 5 - **Suggestion:** provide drainage at the base of an upstream drainpipe to allow emptying out for service or repairs.


6c DRAINAGE

 **Caution:** in all cases you must refer to the applicable laws on drainage at sea and lakes.

SANIMARIN® provides a shredding and pumping function only and might need to be connected to a MSD unit.

 Install a diverter valve **T** to select where to discharge to.

 Finish the discharge installation, one hose going to the through-hull fitting and the other one going to the holding tank.


 **Caution:** for units installed below water level, it is necessary to lift the discharge pipe 50 cm (20 inches) above the water level. Install a vented loop **S** at the highest point of the installation and lower back.

6d WATER SUPPLY

IN 120V AND 220 V / IN 12 V / IN 24 V

Fresh water pumped from the boats own pressurised fresh water supply or pumped from the sea.

Connect the water hose 20-27 mm (1/2-inch) to the pump allowing for a stop valve **W** on the 1b water inlet (the boat's pressurised water supply).

 **Caution:** for a thorough rinsing of the toilet, it is necessary to maintain a minimum pressure of **1.7 bar** (25 PSI) at the stop valve outlet **W**.

6e ELECTRICAL CONNECTION

IN 120V AND 220 V AC

Connect the unit to a 15A grounded receptacle (according to the applicable electrical codes). This circuit should be used exclusively by the toilet.

IN 12 AND 24 V DC

The electrical connection must be made in the junction box using proper polarities: pole + = red cord, pole - = black cord.

Use a battery in good condition, capable of supplying the necessary intensity 12v = 32A, 24v = 25A.(50A circuit breaker or fuse for 12V and 30A for 24V).

The wire cross section must be at least 2.5 mm² (#10). The electrical supply of the Sanimarin must be directly connected to the boat's electrical panel and must be reserved for the exclusive use of the toilet.

Suggestion: allow for a circuit breaker to be installed on the panel.

6f MARITIME LAW

Follow the applicable laws.

7 STANDARDS

Conforms to EN 60335-1.

Safety of domestic electrical appliances and similar (general regulations).

Conforms to EN 60335-2-41.

Special regulations regarding electric pumps with temperatures not exceeding 35°C.

8 OPERATING AND SET-UP TEST

Switch on, engage the circuit breaker, and open the water inlet valve **V** completely to allow for a good rinsing out.

ECO cycle

- Press the push button twice. Water will flow and rinse the toilet bowl during the entire 13 second cycle. After 5 seconds of water flow, the motor runs for 3 seconds. The remainder of the water flow fills the bowl to the proper level. Throw in a few sheets of toilet paper and repeat the operation.

Normal cycle


- Press the push button once, water will flow and rinse the toilet bowl during the entire 25 second cycle. The cycle can be broken down as follows: after 9 seconds of water flow, the motor runs for 7 seconds. The remainder of the flow (9 seconds) refills the U-bend.


2-second burst

- Hold down the push button for complete discharge of toilet bowl

9 USE

SANIMARIN® is used like a traditional toilet and does not require any particular maintenance.

 **Caution 1** **SANIMARIN® must only be used to macerate and evacuate faecal matters and toilet paper. Any damage caused to the unit by foreign matters such as cotton, tampons, sanitary napkins, condoms, long hair, dental floss, or the pumping of liquids such as solvents or oils, is not covered by the warranty.**

 **Caution 2** In case of prolonged power interruption or long absence, close the supply stop valve.

10 CLEANING/REMOVAL OF LIMESCALE

- Clean at least twice a year with an appropriate limescale remover.

11 POSSIBLE REPAIRS

In most cases, macerator malfunctions are minor. You can fix them yourself. To help you diagnose the cause of the problem, read the chart below. For any other problem, contact SFA Customer Service or a licensed SFA repairman.



In all cases, unplug the unit before starting repairs

PROBLEM	PROBABLE CAUSES	REMEDIES
<ul style="list-style-type: none">• The cycle goes correctly, the motor runs but the water intake in the bowl is slow or does not occur	<ul style="list-style-type: none">• The siphon valve (50) is no longer watertight.• Limestone is clogging the drain outlet.• The basket (17) is clogged.	<ul style="list-style-type: none">• Clean or replace the siphon valve (50).• Dismantle and clean the outlet.• Dismantle and clean the basket.
<ul style="list-style-type: none">• The cycle goes correctly, but after each cycle, there remains a lot of water in the bowl.	<ul style="list-style-type: none">• The drain outlet is too high.• Limestone is constricting sections of the drain hoses.• The drain hose is pinched.	<ul style="list-style-type: none">• Modify the installation.• Dismantle the motor and scrape the limestone or soak the motor in vinegar.• Check the course of the drain hose.
<ul style="list-style-type: none">• The motor runs with a rattle sound.	<ul style="list-style-type: none">• A hard foreign object has fallen in the toilet and is hitting the shredder (15) in the basket (17).	<ul style="list-style-type: none">• Dismantle the motor and try to extract the foreign object through the opening of the lid (20). If this is not possible, open the unit.
<ul style="list-style-type: none">• Pressing the push button (55) does not set the cycle in motion.	<ul style="list-style-type: none">• The pressure on the button (55) is not sufficient.• The push button (55) is defective.• The pressostat (27) is defective.• The programmer (23) is defective.	<ul style="list-style-type: none">• Press down fully on the push button (or dismantle it and blow in the small clear hose).• Replace the push button (55).• Contact SFA Customer Service.• Contact SFA Customer Service.
<ul style="list-style-type: none">• The cycle is set in motion but little water flows in the toilet.	<ul style="list-style-type: none">• The inlet filter of the solenoid valve (26) is clogged.• The filter of the auxiliary pump is clogged.• The water inlet hose may be pinched.	<ul style="list-style-type: none">• Take out motor, and clean the solenoid valve filter.• Clean the filter of the auxiliary pump.• Check the water inlet hose.
<ul style="list-style-type: none">• The cycle is set in motion but water does not flow in the toilet.	<ul style="list-style-type: none">• The shut-off valve is closed.• The solenoid valve (26) is defective.• The pump is defective.	<ul style="list-style-type: none">• Open the shut-off valve.• Change the solenoid valve.• Clean the filter of the auxiliary pump.• Change the auxiliary pump.

13 DISMANTLING

ONLY A ENGINEER AUTHORIZED BY SFA CUSTOMER SERVICE CAN WORK ON THE ELECTRIC PART OF THE MOTOR.

REMOVAL OF TOILET

Unplug the unit

- Close the stop valve and unscrew the water inlet hose.
- Unscrew the screws on the floor.
- Release the drainpipe from the outlet elbow **II**.
- Tilt the toilet forward to empty it in a tub.

REMOVAL OF THE MOTOR

- Release the clear hose from the push button (55).
- Remove rinsing water inlet (57).
- Loosen the clip (45) between the siphon hose and the ceramic.
- Remove the motor/pump through the bottom of the toilet.

OPENING OF MOTOR

- Remove the 3 screws (31).
- Remove the lid (22).
- Disconnect the motor cables from the electronic circuit board (23).
- Unclip the lid (20) of the bowl.

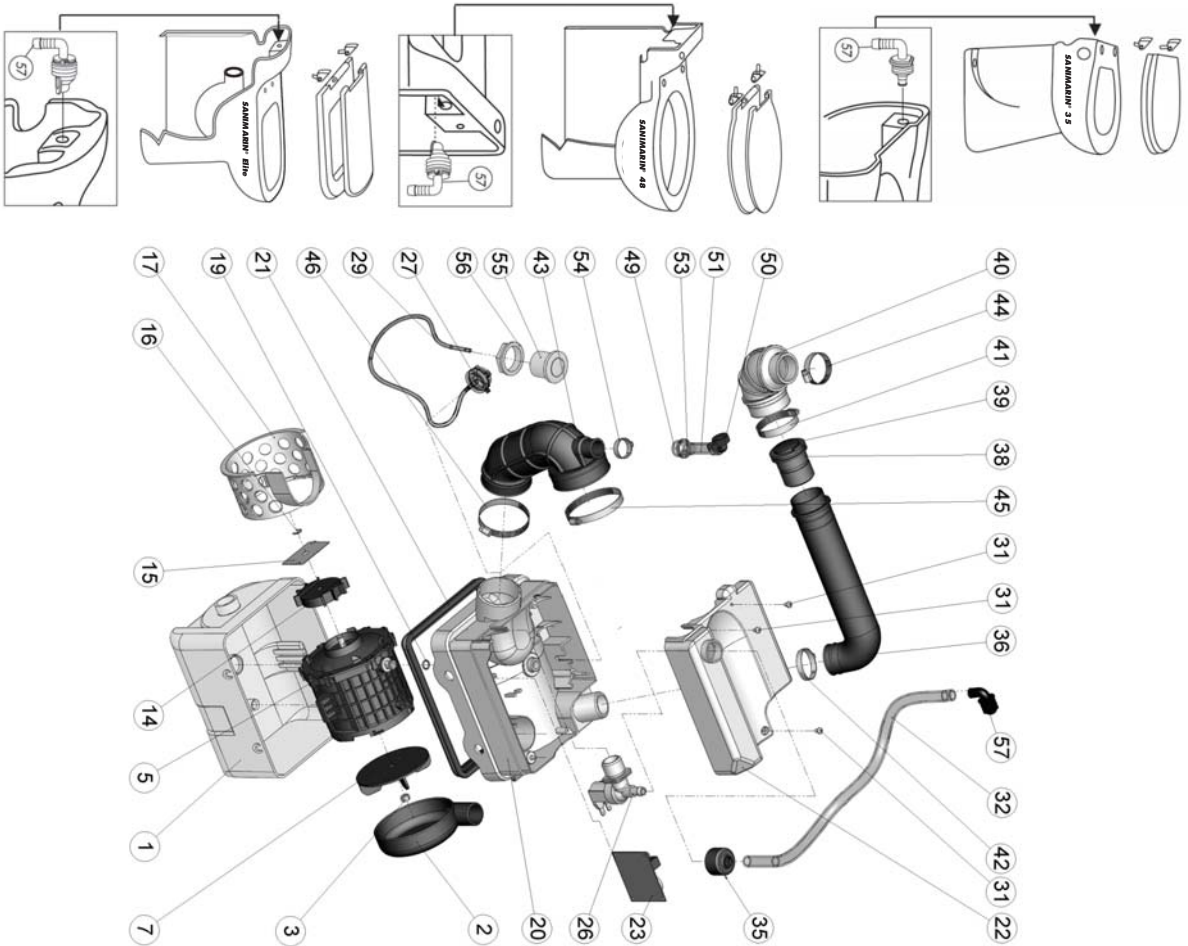
Caution: the blades of the revolving shredder are very sharp (15).

- Clean if necessary.
- Grease the lid joint before (21) reassembly.

14 WARRANTY CONDITIONS

SANIMARIN® is guaranteed for 1 year from the date of purchase or date of delivery of the vessel.

SANIMARIN® 35 SANIMARIN® 48 / SANIMARIN® Elite



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SERVICE HELPLINES

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Deutschland	0800 82 27 82 0	(060 74) 30928-90
Österreich	(01) 214 02 160	(01) 214 02 16 85
España	(93) 381 85 97	(93) 462 18 96
Nederland/België	(0) 475 487100	(0) 475 486 515
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