ENGLISH VERSION

SalinoVatis

User manual - SalinoVatis Mini Saline

Thank you for choosing SalinoVatis!

The SalinoVatis Mini Salines are based on the principle of graduation towers and use the potentially health-promoting effect of salty air to support your respiratory tract and improve your general well-being.

Experience the power of nature!

MADE IN GERMANY

English translation of original German manual for SalinoVatis Mini Saline

IMPORTANT INFORMATION:

SalinoVatis is not a medical product and no promise of a cure is made.

If you have any questions or problems with your device, please contact aero@salino.eu.

Read the operating instructions carefully before initial operation to avoid damage. Keep the instructions in a safe place and enclose them when passing on the appliance.

Scan to see the video tutorial & here you can find a feedback form- thank you!

Content

Scope of delivery

Check the scope of delivery for completeness and transport damage immediately upon receipt. If any defects are found, do not use the device, but contact customer service at aero@salino.eu.

SalinoVatis contains:

- 1x structual tower
- 1x tube
- 1x drip tray
- 1x anti-slosh grid with integrated level indicator (float)
- 1x pump with USB cable

delivered pre-assembled

- 1x USB mains plug (5V)

NOTE: You will need liquid (water or brine) for operation. We recommend an additional, easy-to-clean surface (e.g. tray) measuring at least 40 x 30 cm.

Health advice

SalinoVatis is not a medical product and may affect your state of health. Use it responsibly.

The effect of the Mini Saline is individual and can have positive, neutral or, in rare cases, negative effects.

About SalinoVatis

The principle of SalinoVatis is inspired by the graduation towers in spas. Water in the brine can evaporate through the constant, slow sprinkling over a particularly large surface. This increases the salt content in the brine and in the surrounding air. The beneficial properties of the increased salt concentration in the air in the immediate vicinity of the large graduation towers make people with respiratory diseases or those interested in lung health travel to today's spas.

SalinoVatis brings the effects of a graduation tower to your home. The salty air is said to have an antibacterial, stimulating and circulation-enhancing effect. The benefits of the Mini Saline can be used to support asthma, COPD, blocked airways, allergies or neurodermatitis.

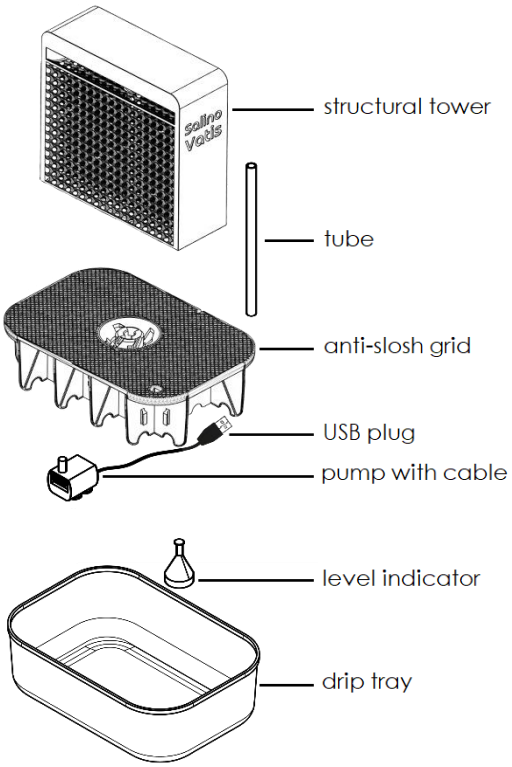
Important notes:

SalinoVatis can help support the respiratory tract. It may be useful as a complementary treatment for existing respiratory conditions, but it is not a substitute for medical treatment. If symptoms persist or are severe, consult your doctor before use.

People with chronic conditions – especially of the cardiovascular system or thyroid gland – are advised to seek medical advice before use. This will allow you to determine whether the product is suitable for use in conjunction with existing therapies or medications.

IMPORTANT: If symptoms such as shortness of breath, rapid heartbeat, dizziness, headaches, eye irritation, or skin irritation occur during use, discontinue use. A medical examination is recommended in these cases.

Device at a glance



NOTE: The structural tower may have slight irregularities in the visible pattern due to the manufacturing process. This is not a quality defect.

The complex structure can only be achieved with a 3D printer and is manufactured individually. SalinoVatis devices may differ visually from one another. This does not affect the functionality in any way.

Intended use

The SalinoVatis Mini Saline is intended for the **evaporation of salt solution (brine)**. Only use brine or clear water in accordance with the instructions. Replace the brine every 4 weeks at the latest or if the unit is left unused for longer than 7 days.

The recommended mixture consists of 300 grams of fine-grained mineral salt to 2 liters of cold to lukewarm filtered or boiled tap water. Do not use coarse salt and make sure that the salt is completely dissolved to prevent damage to the pump.

SalinoVatis is suitable for continuous operation and is recommended for maintaining the pump in continuous operation. The energy-saving pump costs less than €5 per year when used 24/7 (assuming an electricity price of 30 ct/kWh).

If clear water without salt is used for operation, the water should be changed regularly to prevent bacterial contamination.

Store the appliance emptied and cleaned. If the appliance is not used for longer periods, e.g. when on vacation, remove the brine from the drip tray, rinse the pump and individual parts and disconnect the mains plug.

Safety note

SalinoVatis should not be used unsupervised by children under 8 years of age or by persons with mental or physical disabilities.

Do not modify the design or electronics of the device and do not add any additional functions.

In the event of damage that could impair safe operation, have the device checked by customer service via aero@salino.eu and restored if necessary.

Danger - risk of electric shock

- Only operate and store SalinoVatis in closed rooms with low to moderate humidity.
- Make sure that the power supply unit or the USB port do not come into contact with moisture. In the event of contact, disconnect the power supply immediately and allow the parts to dry completely and check them carefully before reconnecting.
- Do not touch any sockets or parts of the electronics with wet hands.
- Do not stretch the power supply cable for plugging in. There is a risk of tipping as well as an increased risk of condensation liquid being carried directly to the power connection via the cable.
- Disconnect the appliance from the power supply for maintenance or cleaning work.
- Check the appliance for damage or moisture at the connection points before each use.

Warning - risk of injury

- Choking hazard: Keep packaging material away from children and animals.
- Risk of strangulation: Make sure that small children and animals do not have access to the cables.
- Risk of swallowing: Keep small parts out of the reach of children.
- Risk of poisoning: Do not swallow brine and do not allow concentrated brine to get into your eyes. In the event of eye contact, rinse with plenty of tap water.
- Risk of tripping: Place the connection cable securely and ensure that the brine tank does not tip over.

Note - Risk of material and property damage

- Never operate the appliance unfilled and only connect it to the power circuit when the pump is covered with brine or clear water.
- Do not tilt the appliance when it is filled with liquid.
- If you notice any damage, switch off the appliance and have it checked.
- Do not carry the appliance while it is connected to the power supply and do not operate it after dropping or spilling it without having it checked.
- Do not bend the individual parts excessively to avoid breakage.
- Ensure that surrounding objects are insensitive to moisture and salt.
- Ensure that the brine remains free from contamination.
- Do not clean the components in the dishwasher.
- Ensure that the water does not exceed a maximum temperature of 35 °C to prevent damage to the appliance.
- Ventilate regularly and check the immediate vicinity of the appliance regularly for traces of moisture.

Location

SalinoVatis can **be operated around the clock** and is suitable for long-term use.

Place the device in a location without strong direct sunlight and heat development.

Leave a distance of at least 30 cm between the wall / immovable objects such as shelves and the Mini Saline.

Operate the appliance in rooms with regulated temperature and humidity (5 °C – 40 °C, max. 75 % humidity).

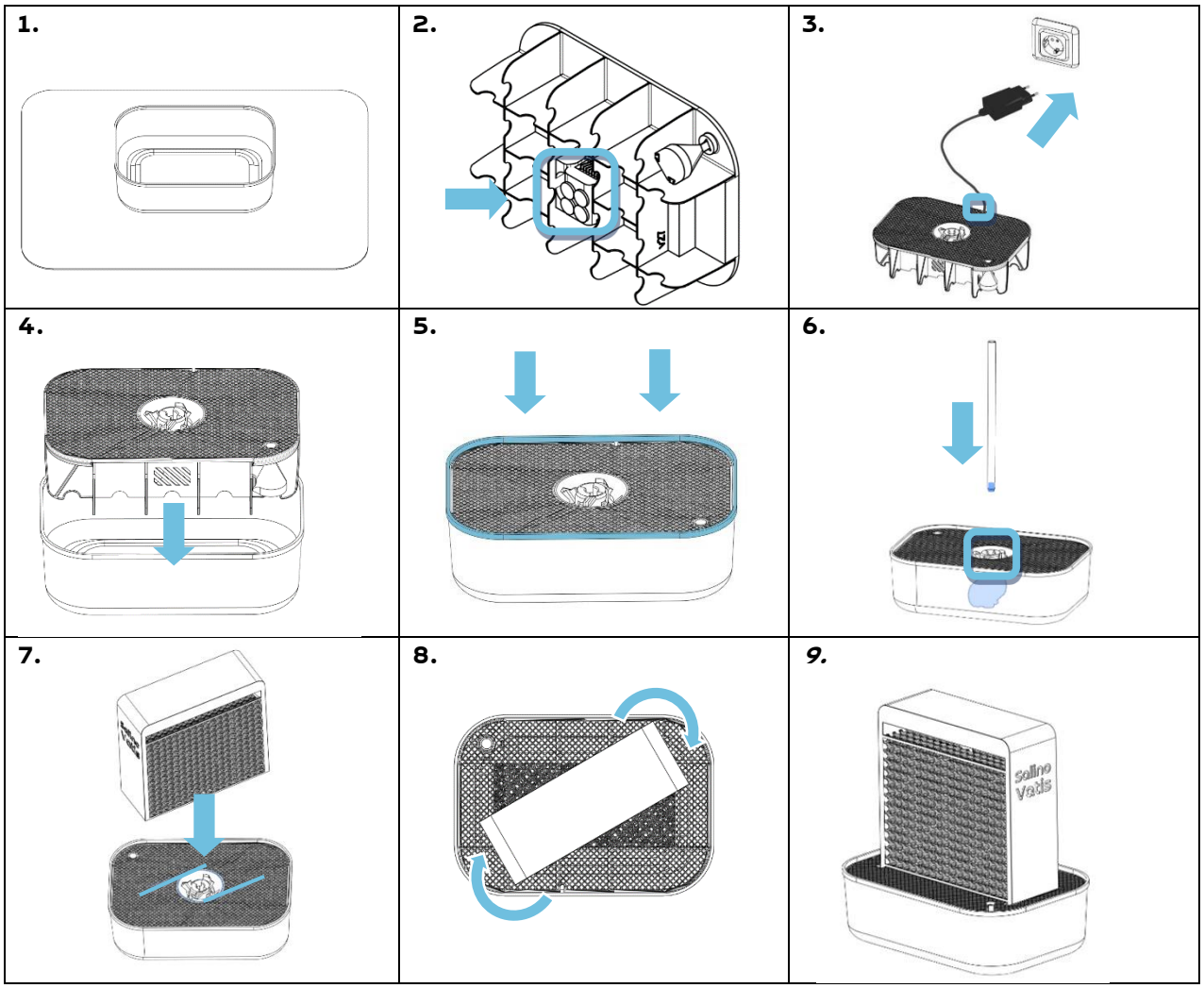
Pay attention to potential faults and prevent children or pets from interacting with the appliance unsupervised.

Caution - risk of electric shock

Due to the increased salt content, there may be increased conductivity in the vicinity of the appliance. Be careful to avoid electric shocks.

Assembly

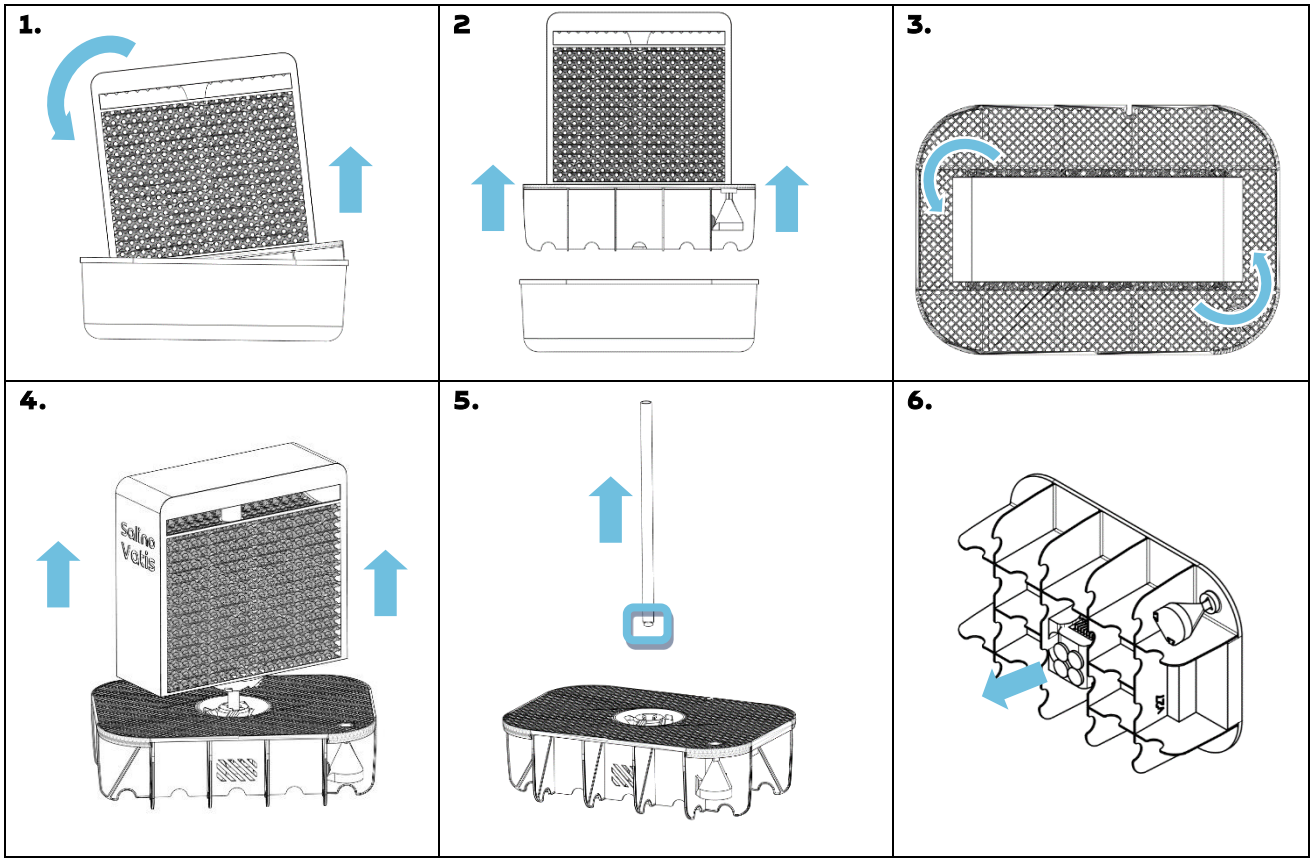
The Mini Saline comes pre-assembled. For re-assembling after cleaning, follow each step.



1. Place the drip tray securely and in a level position, ideally on a larger tray.

2. Click the pump into the holder provided, centered on the underside of the anti-slosh grid.
3. Guide the cable through the recess in the grid and plug the USB connection into a mains plug.
4. Place the anti-slosh grid together with the pump in the drip tray with the fins facing downwards.
5. Press the grid down slightly; the edge of the tray serves as a guide, this should sit flush over the grid once the anti-slosh grid is in place in the tray.
6. Check the transparent, flexible tube section: There is an approx. 1 cm long white plastic tube at both ends. If only one tube is visible, the other is already connected to the pump. In this case, insert the free end of the transparent tube through the opening in the middle of the splash guard and downwards. If both white tubes are visible, the transparent tube can be positioned in any direction – insert one of the two ends through the opening and attach it securely to the pump connection.
7. Place the structural tower with the round lower shape diagonally on the central hole of the anti-slosh grid. Make sure that the piece of hose runs through the channel provided in the structural tower.
8. Turn the tower forwards until you feel resistance. The tower is now locked in place.
9. Done!

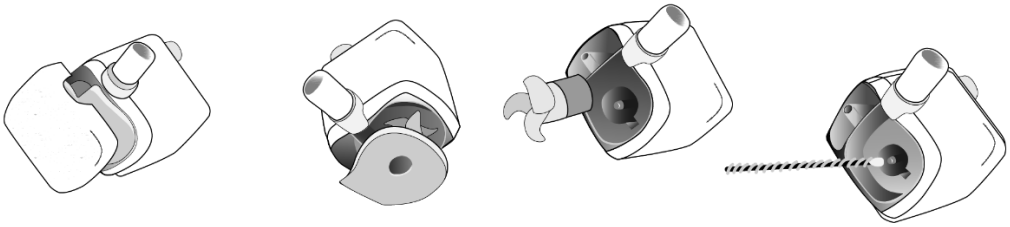
Dissassembly



1. Carefully lift the tower with both hands and tilt it towards one of the short sides of the drip tray while the drip tray remains in place. If there is resistance, tilt the tower to the other side. Avoid exerting force.

2. Reach under the tilted grid and lift it together with the tower out of the drip tray and place it down.
3. Grasp the tower with both hands and turn it to one side with slight force against the resistance.
4. Lift the tower upwards out of the grid.
5. Pull off the tube. Check whether the short white tube remains stuck in the tube. If not, put the tube back in the hole and pull it off again. For reassembly, it is easier to have the pump extension inside the tube.
6. Turn the grid over. Gently release the pump from the recess. Avoid applying strong pressure to prevent breakage.

Pump cleaning



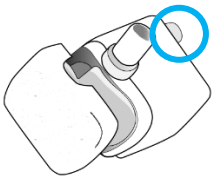
a) Pull the cap off to the side. b) Remove the intermediate base. c) Carefully pull off the rotor. d) Use a thin pipe cleaner to remove salt from the exposed area.

Depending on the water quality and hardness, it may be necessary to clean the pump regularly with a mild vinegar or citric acid solution. Take the pump apart and place the individual parts, except for the cable and connection, in a descaling bath. Leave them to soak for a few minutes, rinse everything thoroughly and reassemble the pump.

If the pump has been dry for a long time or is switched off frequently, it may malfunction. Place the pump in a lukewarm water bath for at least 10 minutes to dissolve any salt deposits that may be affecting its performance.

Scan the code to watch video tutorials regarding pump cleaning and other maintenance topics.

Putting in operation



Before you use SalinoVatis with brine, first check that the pump is working properly. To do this, hold the cylinder under running water. The pump should start.

Brine mixture: Mix **fine salt (SalinoFUSION)** with **2 liters of water.** For a moderate brine, we recommend **300 grams**; up to **600 grams of SalinoFUSION for an intense mixture**. Use filtered,

boiled (and cooled) or distilled water. Dissolve the salt completely in the water. Make sure that the water is **no warmer than 35°C** before adding it to the Mini Saline.

IMPORTANT: We recommend checking that the **device is working properly with clean water** before mixing brine. First, fill the drip tray with **at least 1.4 liters** of clean water so that the pump can start. Turn the device on using the switch.

Check whether drops are forming at the top of the structure tower and slowly flowing back into the drip tray. It may take a few seconds for drops to form in the channels until the pump has drawn enough water. Gently move the tower in a circular motion or tap the area with the channels if drops are not forming in all channels. Go to the "Troubleshooting" section if there is no steady flow.

Now slowly pour the concentrated brine (approx. 600 ml) over the splash guard. The **maximum filling level is approx. 2.1 liters** of liquid (depending on the selected salt content).

The pump may draw in some air when first switched on or after dry periods, and this will be clearly audible. Allow the pump to run normally in your SalinoVatis for some time with sufficient liquid. If the noise does not decrease, go to the "Troubleshooting" section.

NOTE: Continuous use of SalinoVatis in both brine and pure water mode may lead to mold growth, moisture deposits, and resulting damage to the surrounding area. Therefore, carry out regular ventilation and drying phases and regularly remove condensation and salt crystal deposits from surfaces with a cloth.

Up to 600 grams of salt can be dissolved in 2 liters of water. A high salt concentration leads to faster deposition of salt crystals and can cause problems with the pump. Clean the device and the surrounding area regularly.

SalinoVatis can be operated with pure water without salt and thus fulfills an exclusively air humidifying and slightly cooling function. When operating in this mode, the water should be changed every 7 days, or sooner if it becomes dirty or starts to smell.

Fill level indicator: The float should always protrude slightly from the splash guard during operation. If the float is exactly level with or below the guard, there is less than 1.3 liters of liquid in the SalinoVatis. For safe, quiet operation of the pump, brine or water must be refilled at this point at the latest. The fill level indicator does not provide precise information about the amount of brine in the drip tray. Do not add any more liquid once water rises through the grid of the splash guard.

If you don't want a higher salt concentration, just add clear water to the circuit regularly. This will dissolve the concentrated salt and keep the concentration almost constant. Pour water slowly and carefully over the tower and the grid.

Maintenance and cleaning

NOTES: Replace the brine completely at regular intervals, at least every 4 weeks. If the device is not used for a longer period of time (7 days or more), the brine should also be replaced before SalinoVatis is put back into operation.

When restarting after a prolonged period of inactivity, salt deposits on the pump may cause malfunctions. First place the pump in a water bath and let it rest for a few minutes. If the pump does not respond, clean it thoroughly (see section: PUMP CLEANING) to restore full functionality.

Salt crystal deposits occur on the device during operation. These can be removed with a damp sponge to improve the flow of brine.

Salt deposits, e.g. on the tower, can be dissolved effectively and precisely with a water-filled squeeze bottle. Moisten the areas to be cleaned generously so that the salt dissolves.

After periods of non-use, check whether the channels at the top of the structure tower are clogged. If necessary, clean the channels in a water bath. If the channels are not all active, activate them by wiping them with a damp sponge. Maintaining the channels prevents uncontrolled brine drainage and splashing.

If there are heavy deposits in the channels and on the device, a complete cleaning should be carried out, as well as after 4 weeks of operation at the latest. For lighter deposits, adding clear water to the collection container can help to dissolve salt deposits.

For a thorough cleaning, all steps described should be followed.

Cleaning instruction:

ATTENTION: Only clean SalinoVatis by hand with cold to lukewarm water (up to a maximum of 35 °C). Do not put the individual parts in the dishwasher or washing machine!

1. Disconnect the mains plug.
2. Empty the drip tray completely.
3. Separate the Mini Saline into its main components for cleaning, as shown under “Assembly- *Disassembly*”.
4. Remove the tube and place it together with the anti-slosh grid, structural tower and drip tray in a sink or large container. Fill it with clear water (maximum 35 °C) and leave everything to soak for at least 15 minutes. Then clean the parts with a cloth, sponge or soft brush. A pipe cleaner can be used for the hose section. Rinse all parts thoroughly with running water and allow them to dry briefly before reassembling the SalinoVatis. Alternatively, you can also rinse the parts with a shower spray.
5. Reassemble the parts of the Mini Saline as described under “Assembly”.
6. Replace the brine completely every 4 weeks or when dirty.

Pump: To maintain the service life and function of the pump in the SalinoVatis, regular maintenance and cleaning is important. Rinse the pump with water at a maximum temperature of 35 °C. To remove salt deposits, soak the pump in lukewarm water and then rinse it. For stubborn dirt, open the pump and proceed as described in “ Pump cleaning”. Run the pump through with clear water for a short time. Now you can put it back into SalinoVatis. Avoid contact with the running pump and use pre-filtered water for the brine to extend maintenance intervals.

Troubleshooting

Error	Possible cause	Correction
No brine flow	Aqua stop function	The pump stops automatically if there is too little liquid. Take out the pump and put it in a separate clear water bath. Restart the pump.
No brine flow during pump operation	Connections between individual parts are interrupted	Check all connection points (start of tube to structural tower, end of tube to pump extension and pump) and plug them together more firmly. If you lost a connector, contact aero@salino.eu.
No brine flow during operation	Tube broken	If the tube has a leak, please contact customer service via aero@salino.eu.
No brine flow during pump operation / loud operation noise	Pump defective / pump clogged	If the pump makes unusual noises, allow it to run for a few minutes in clear water if it is restarted. Noises are often caused by air in the pump and disappear when it is completely filled with water. If it continues to make noises after some time, clean the pump thoroughly as described in “Maintenance and cleaning” and check the pump operation again. If the pump continues to have problems, contact aero@salino.eu.
No brine flow during pump operation	Channels clogged	Clean the structural tower as described under “Maintenance and cleaning”. Put it into a lukewarm bath and let residue of salt dissolve. If brine still does not flow, use a pipe cleaner or carefully use a blunt, narrow object to locate and remove any blockages.
Pump does not work	Check mains connection	If there is no pump activity, check that the USB connection point and power supply unit are firmly connected. Also check that the mains socket has power and that the mains adapter is securely plugged in. Use another suitable device, e.g. a cell phone charging cable, to check whether the power adapter is working.
Pump does not work	Cable defective	In the event of cable breakage, please contact aero@salino.eu to order a replacement part or to find out about your options under the warranty in the event of improper handling.
Intense foaming	Contamination of the brine	A high lime or mineral content can cause foaming in the drip tray. Substances such as soap, oil or similar can also interfere with the brine. Mix a new brine. If foaming continues to occur, SalinoVatis should be completely cleaned (see “Maintenance and cleaning”). If foaming continues, unsuitable salt may be used. You can find suitable salt for SalinoVatis at www.salino.eu

Disposal

Please dispose of the SalinoVatis properly to minimize environmental damage. Remove the pump together with the cable and the external mains plug for disposal. These fall under the regulations for the disposal of waste electrical and electronic equipment. Take the electronic parts of the Mini Saline to a designated recycling center. They do not belong in household waste.

All other components can be disposed of in the recycling garbage can or in residual waste.

Technical data sheet

Device name	SalinoVatis
Power connection	USB
Voltage USB	5 V
Power of pump	1.5 W
Mains voltage (external mains plug)	100 – 240 V, 50 – 60 Hz
Max. Delivery rate (liters/hour)	110
Max. filling quantity	2.1 liter brine
Room size	10 – 15 m², for larger rooms the function is reduced accordingly
Micro climate radius	~ 0.5 – 2 meters
Empty weight	800 grams
Measurements	26 (B) x 18 (T) x 24 (H) [cm]
Material	PLA
Temperature range	Operation: 5 – 35 °C Storage and transport: -25 °C – +50 °C
Air humidity	Operation: 30 – 75 % Storage and transport: max. 90 % Exceeding the ambient humidity will not damage SalinoVatis, but will reduce the effect of salt water evaporation.
Air pressure	Operation: up to 2000 m height, 70 – 106 kPa Storage and transport: 70 – 106 kPa

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