



saunum

Sauna climate unit **Saunum AirSolo**

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SAFETY INFORMATION

These installation and operating instructions are intended for the owner or maintenance provider of the sauna, as well as the electrician responsible for installing the sauna climate unit. After installing the sauna climate unit, the manual must be handed over to the owner or the maintenance provider. Before using Saunum AirSolo, or sauna climate unit, please read the installation and safety instructions.

The **Saunum AirSolo** sauna steam room climate unit manufactured by Saunum Saunas OÜ (hereinafter the Device) may not be taken into use before reading the installation and safety instructions!

The Device is designed for mixing layers of air in the steam room of the sauna and, harmonizing the temperatures of the indoor climate of the sauna and, as an added function, releasing salt ions into the indoor air from the Himalayan salt balls included in the set. The special ventilator in the Device generates air flow that harmonizes the upper and lower air layers of different temperatures in the heated sauna and makes the steam smooth and even.

NB! It is forbidden to use the sauna climate device with electrical heater and wood burning heater above allowed temperature. This may cause overheating and fire risk!

NB! This manual is intended only for home use saunas. Separate rules apply to public saunas, conditions have to be specified with the manufacturer.

NB! The manufacturer is not responsible for incorrect use of the sauna climate device!

NB! Do not use the Device for anything other than the intended purpose!

READ, SAVE AND FOLLOW ALL INSTRUCTIONS.



Make sure you do not have allergies and contraindications to a saline environment. Consult a doctor about medical contraindications.

Saunum Saunas OÜ will not be held liable for various side effects to the health of the user of the Device. Using Himalayan salt balls in the Device is an optional added function which may be left unused without any effect on the functioning of the Device in harmonizing the climate of the steam room.

In the case of any health concerns, the salt balls can be removed from the base tray and the Device can be used for only mixing the layers of air.

CAUTION! The sauna climate unit may only be activated for the duration of the steam bath. The sauna climate unit must be switched off when heating the sauna and during breaks between steam baths!

Do not pour water into the housing or ventilation openings of the Device or use the Device in a room where there

is water flowing on the floor or where flammable/explosive gases may leak into the air.

The Device may not be used if any housing components have been removed and/or the electrical wiring diagram has been altered.

WARNING! To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times. Children must not be allowed access to the Device or to play with the Device.

The Device must be installed by a person who is qualified to perform electrical work. The Device must be connected to the power grid by using permanent wiring that is suitable for the ambient temperature conditions. The connecting terminals of the Device must be equipped with protective earthing (PE). The cross-sectional area of the wire must be at least 16 awg. The Device must be powered from a power circuit that is protected with overcurrent and residual-current devices. Supply voltage: 120 V / 0,31 A - 60 Hz.



WARNING TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

a) Installation work and electrical wiring must be done by qualified person (s) in accordance with all applicable codes and standards. Including fire-rated construction.

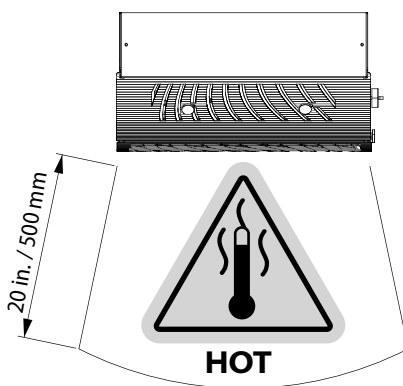
b) Use this unit only in the manner intended by the manufacturer, if you have questions, contact the manufacturer.

c) Before servicing or cleaning unit, switch power off at service panel and lock panel to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

CAUTION! The Device housing has sharp corners and edges against which you may injure yourself if you are not careful.

CAUTION! The sauna climate unit must be installed so that the exhaust opening is not directed towards the heater.

CAUTION! Sauna users must keep all body parts (feet, arms, legs, hands, etc.) at least 20 in. / 500 mm away from the fan during sauna session.



TRANSPORT AND STORAGE

The Device is packaged by the manufacturer in a way that ensures the preservation of the Device under normal transport conditions. The Device must not be dropped, tossed or stored under heavy goods. Store the Device in a dry room that is protected from weather effects.



INSTRUCTIONS FOR USE

The Device is designed for harmonizing the climate of the steam room during a steam session.

Before using the Device for the first time, check:

- compliance of the wiring with the requirements;
- compliance of the supply voltage with the rated voltage of the Device
- the condition of the protective earthing (PE);
- the mountings on the Device housing;
- the wall mountings of the Device;
- the condition / presence of overcurrent and residual-current protection devices;
- if the fan rotor can rotate freely;
- if all tools and residues of the materials used during installation are removed from the housing of the Device.

When starting the Device, check:

- the direction of air flow – air must be drawn from the upper and blown out from the lower opening;
- for abnormal vibration or noise when the fan is running;
- the lighting stability for LED equipped devices.

SAUNA CLIMATE CONTROL

The volume of air circulated by the Device can regulated by a rotary switch located on the lower right side of the Device.

The switch has four positions and can be turned both clockwise and counter-clockwise. When the bar on the switch button points to the left, the Device's fan is turned off. Airflow speed increases by turning the switch clockwise, you can choose between three different speeds. (Except AirSolo Wall with external switch.)

To control the air temperature in the steam room, an air-cooling damper for steam is located on the bottom front panel of the Device (see Figures 1C and 2B). The recommended setting is to keep the cooling damper 1/3 open. To cool the steam, try opening the damper incrementally. Try using different fan speeds to find the perfect indoor climate for your sauna.

USING THE DEVICE

The Device is to be switched on immediately before entering the steam room and switched off immediately after leaving the steam room. The Device may not be switched on when heating the steam room or when there is no one in the steam room, as the operation of the Device will increase the temperature in the lower part of the



steam room and the bench and floor may become too hot.

To ensure long service life of the Device, make sure that the temperature in the steam room at the lower part of the Device does not exceed 176 °F. If this temperature is exceeded, the thermal protection will activate and the fan will stop; once the temperature falls below the activation level of the protection, the fan will be switched on again.

The manufacturer will not be held liable for equipment failures resulting from exceeding the permitted operating temperature.

If your Device is equipped with internal lights, the lights will activate at the same time as the fan (see the marking on the packaging of the Device) when the Device is switched on.

If your Device is wall-integrated and equipped with an external touch-sensitive switch for speed control, please keep in mind the following requirements:

- The external speed switch may only be installed outside the steam and washing room, e.g. the changing room, preferably next to the door, so that the Device can be conveniently switch on and off.
- The switch has three positions for selecting the desired airflow intensity. The Device can be switched on

and off by pressing and holding the touch-sensitive button of the desired speed.

- Touch the appropriate area to select speeds.
- If the Device is equipped with internal lighting, a separate switch (optional) must be used to switch it on.

INSTRUCTIONS FOR USING HIMALAYAN SALT BALLS

The sauna climate unit comes with Himalayan salt balls. The use of salt balls in the Device is optional and does not affect the basic function of the Device.

To use the salt balls, they must be placed in the base tray located between the air discharge grille and the fan. Make sure that the salt balls are placed correctly and do not impede the rotation of the fan.

To place or remove the salt balls (see Figures 1D and 2C), loosen the two fastening bolts on the discharge grille and lower the grille on its hinges. Do not use excessive force! After placing or removing the salt balls, shut the discharge grille and fasten it with two bolts.

The sauna climate unit may only be used if the grille is installed!



WARNINGS

- Remaining in the steam room for an extended period of time raises your body temperature, which can be dangerous to your health!
 - Do not allow children, disabled or ill persons in the steam room unattended!
 - Consult a doctor regarding medical contraindications to sauna bathing!
 - Consult your doctor regarding medical contraindications to salt treatment!
 - Make sure you are not allergic to salt treatment. Saunum is not responsible for the side effects of salt treatment!
 - Consult a pediatrician or family physician about allowing children to take a sauna bath!
 - Use caution when moving in the sauna and the steam room, as the bench and floor can be slippery!
 - Do not go to the sauna under the influence of alcohol, drugs, or narcotics!
 - Do not sleep in a hot steam room!
 - Sea air and humid climates may cause an oxide layer (rust) to form on the metal surfaces of the heater!
 - Make sure you have proper ventilation in the steam room. Saunum is not responsible for possible corrosion damage caused to the sauna equipment by salt. If necessary, consult a specialist!
 - Do not hang towels and clothes to dry in the steam room – this may cause a fire hazard!
 - Excessive moisture can damage electrical equipment!
 - Electrical components should not be exposed to water.
 - Maintenance, and installation, should be performed in a cool and dry environment.
- NB! Do not leave the fan of the sauna climate unit running when you are not in the steam room – doing so will result in excessive energy consumption and the bench may become too hot!**



MAINTENANCE AND REPAIR

CAUTION! Before servicing and cleaning the sauna climate unit, the power circuit of the Device must be disconnected from the power and utilities and the moving parts of the device must come to a complete stop.

Before servicing and cleaning the Device, make sure that:

- the Device has been disconnected from the power and utilities (switched off at the overcurrent protection device in addition to the power switch of the Device);
- the Device's fan has stopped completely;
- the required occupational safety and personal protective equipment is used when performing the works;
- the connecting cables are undamaged. If any damage to cables is detected, the cables must be replaced by a qualified electrician in accordance with the applicable standards and requirements before continuing maintenance and cleaning work.

The Device housing can be cleaned with a cloth dampened with water.

Do not use a pressure washer or running water to clean the Device! Do not use chemical cleaners or solvents to clean the Device!

Excessive dirt can cause imbalance of the fan rotor, which increase the noise level when the Device is operating. Damaged or bent fan blades may also increase the noise level. Make sure that no foreign objects enter the operating area of the fan rotor.

Generally, the fan does not need to be cleaned more than once a year. Only qualified persons may clean the fan.

Using compressed air to clean the fan may permanently damage the fan rotor!

Fan bearings are maintenance-free and must be replaced if malfunctions occur.

Make sure that there are no foreign objects in the air vents of the fan of the sauna climate unit. The Device is not meant to be cleaned by children.

If Himalayan salt balls are used with the sauna climate unit, it is recommended that the state of wear of the salt balls be checked once per year (see Figures 1D and 2C).

When the diameter of the balls has decreased by more than a half, the salt balls must be replaced. To replace the balls, remove the salt ball container from the Device and wash the container under running water to remove any salt residue. Install the container and place new salt balls in their slots.

In the event of any malfunctions involving the Device's fan and lighting, stop using the Device immediately and have it inspected by a qualified person.



GENERAL WARRANTY CONDITIONS FOR SAUNUM PRODUCTS

With the Saunum Equipment Warranty, Saunum guarantees that the product will be free from materials and manufacturing defects for a specified period after the date of purchase. In the event of a defect in the Device during the warranty period due to the use of low-quality materials or low quality of assembly, the recommended repair partners of Saunum will repair or replace the Device or its defective part without charging for labor and spare parts under the conditions presented below. Saunum reserves the right to decide whether to replace the defective product component or replace the Device with a new one. Replaced defective product components remain the property of Saunum.

Warranty conditions:

1. The warranty is only valid if a completed installation report is submitted with the claim;
2. A warranty period of two (2) years applies to the Device if it is used in a private sauna;
3. A warranty period of one (1) year

applies to the Device if it is used in a public sauna.

The warranty does not cover:

1. Routine maintenance and cleaning of the Device, and replacing components due to normal wear and tear;
2. Adapting or modifying the Device to use it for purposes other than those stated in the operating instructions;
3. Risks associated with transport;
4. Damage caused by misusing the Device;
5. Damage caused by improper installation of the Device;
6. Repairs performed by a party other than a recommended repair partner (maintenance partner) of Saunum;
7. Accidents, lightning, water, fire, improper ventilation or any other factor beyond the control of Saunum;
8. Faults caused by the use of salt balls not recommended by Saunum;
9. Salt balls.



The list of installation and maintenance technicians recommended by Saunum Saunas OÜ is available on the website of Saunum Saunas OÜ at **www.saunum.com** or by contacting **info@saunum.com**.

The maintenance instructions for the device are given in the user manual of the Device.

NB! The sauna climate unit may only be connected to the power and utilities by a professional electrician in accordance with the applicable regulations.

Read the entire user guide carefully and thoroughly before using the Device and keep it in a safe and easily accessible place for future reference.



INSTALLATION

NB! Read the Safety Information before beginning installation (see pp 6–7)!

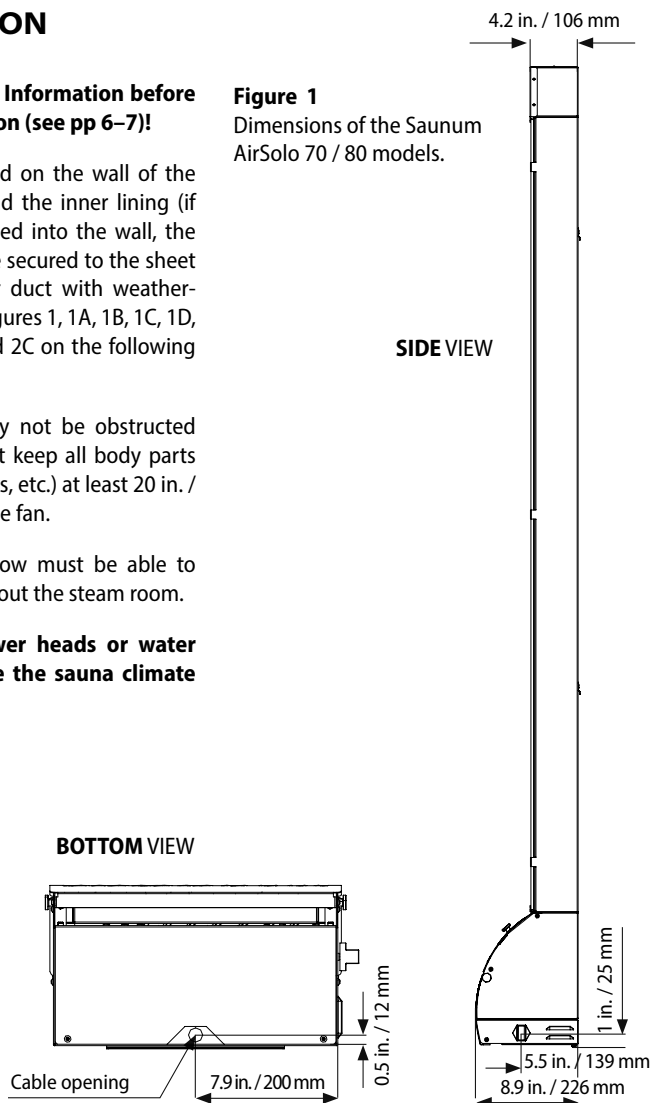
The Device is installed on the wall of the steam room or behind the inner lining (if the device is integrated into the wall, the lining boards must be secured to the sheet metal face of the air duct with weather-board clamps) (see Figures 1, 1A, 1B, 1C, 1D, 1E and 2, 2A, 2B, and 2C on the following pages).

The air outlet of may not be obstructed and sauna users must keep all body parts (feet, arms, legs, hands, etc.) at least 20 in. / 500 mm away from the fan.

The discharged air flow must be able to spread freely throughout the steam room.

Do not install shower heads or water spray devices above the sauna climate unit!

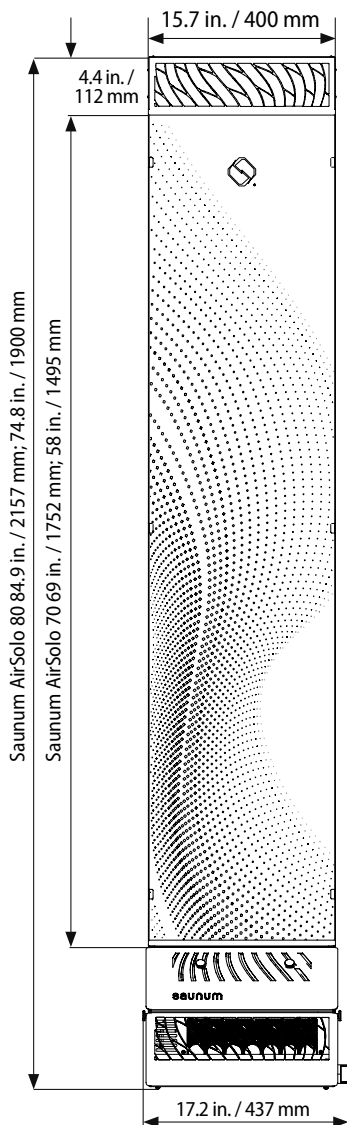
Figure 1
Dimensions of the Saunum
AirSolo 70 / 80 models.





DIMENSIONS OF THE DEVICE

FRONT VIEW



REAR VIEW

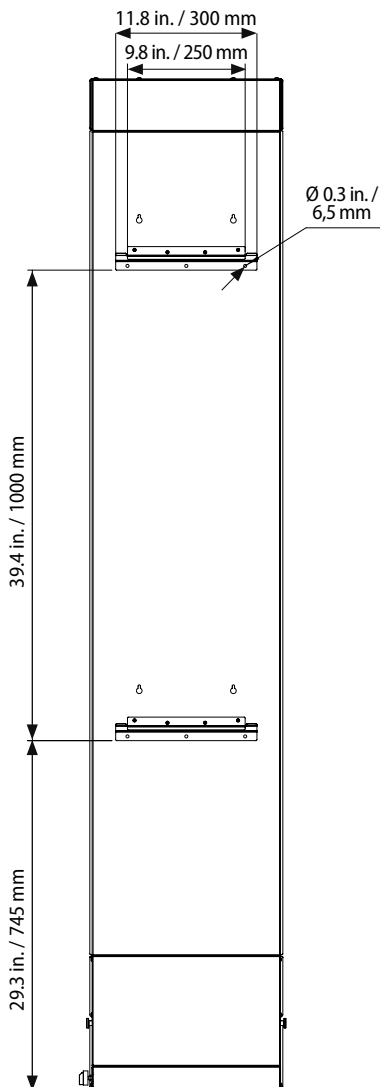




Figure 1A – Saunum AirSolo 70 / 80 model installation distances.

DEVICE INTEGRATED IN THE WALL RECESS

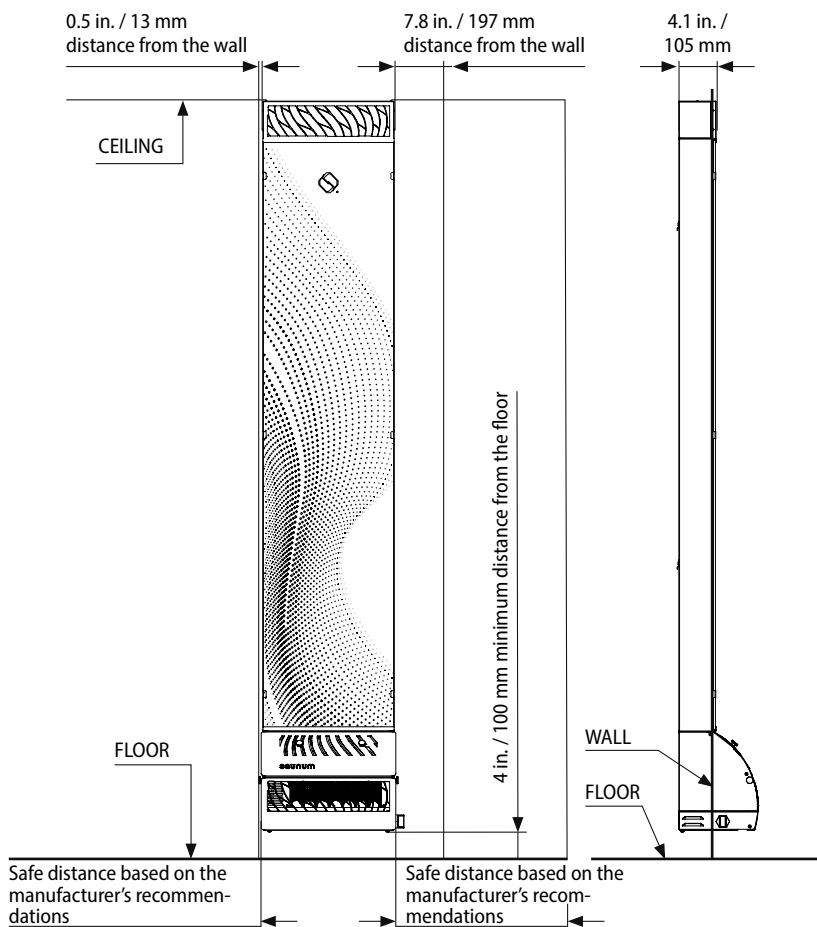




Figure 1B – Saunum AirSolo 70 / 80 model installation distances.

WALL-MOUNTED DEVICE

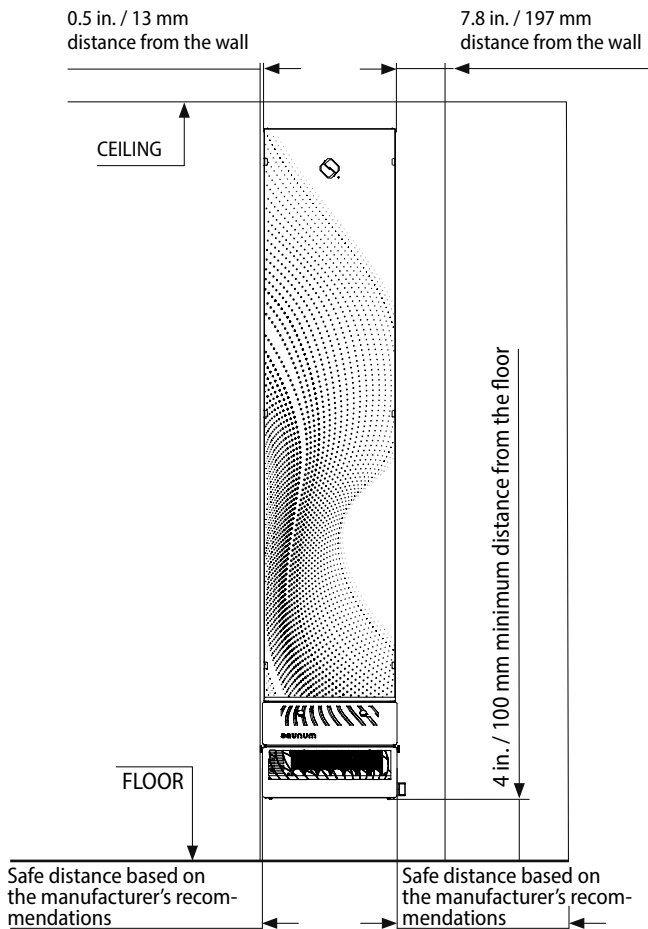
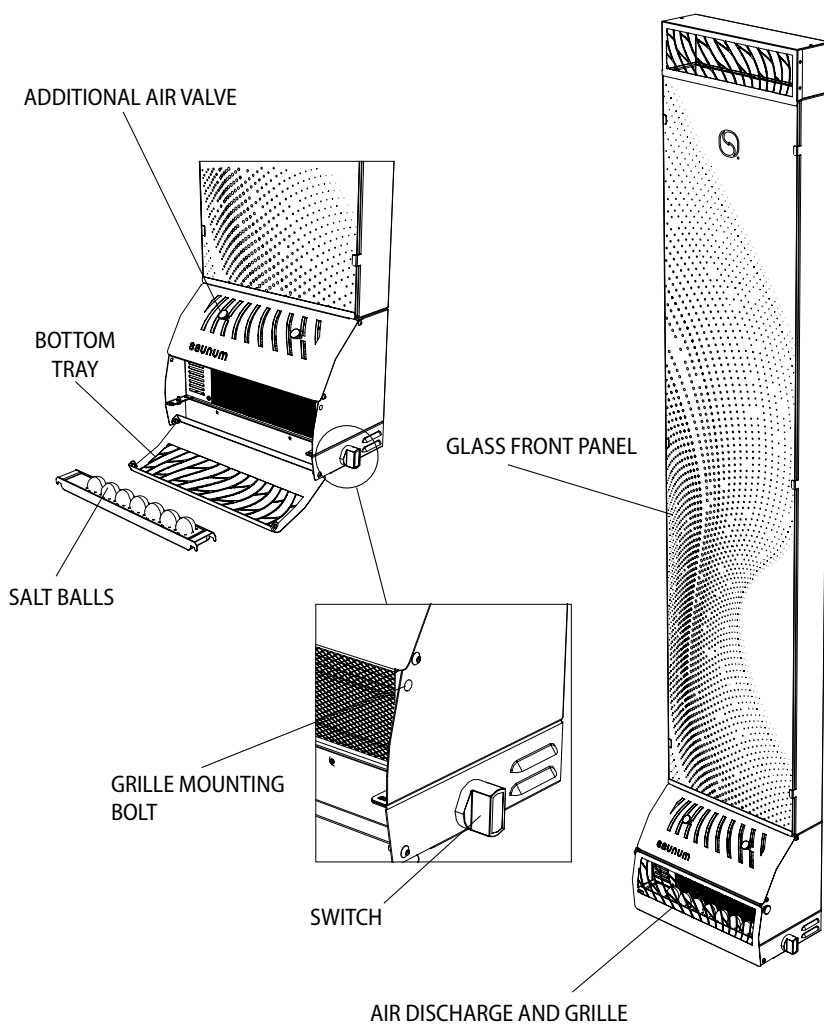




Figure 1C – Components of the Saunum AirSolo 70 / 80 device.





The Device works most efficiently when the edge of the upper airing vent opening is adjacent to the ceiling of the steam room (model with a protective grille). If the Device is not equipped with a protective grille, the Device should be installed so that the upper edge remains 3–4 in. / 80–100 mm below the ceiling. The lower edge may not be closer than 4 in. / 100 mm. to the floor to prevent the water on the floor from coming into contact with the electrical wiring of the Device.

The Device is designed for wall mounting using the hanging strips included in the set. The wall in the installation spot must be able to carry the weight of at least 77 lb / 35 kg and allow the supplied hanging strips to be fastened with screws. The hanging strips are attached to the wall of the steam room, each with at least two screws. The Device is then lifted onto the wall so that both the upper and lower strips slide between the strips attached to the back of the Device.

Figure 1D – Saunum AirSolo 70 / 80 model installation.

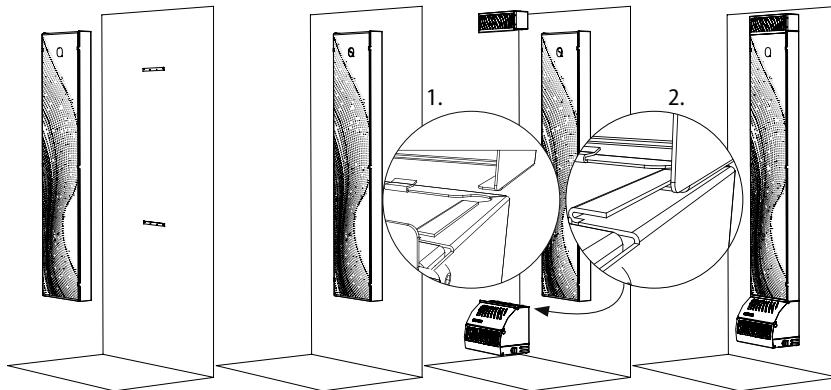
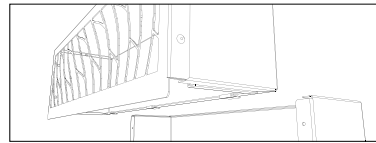
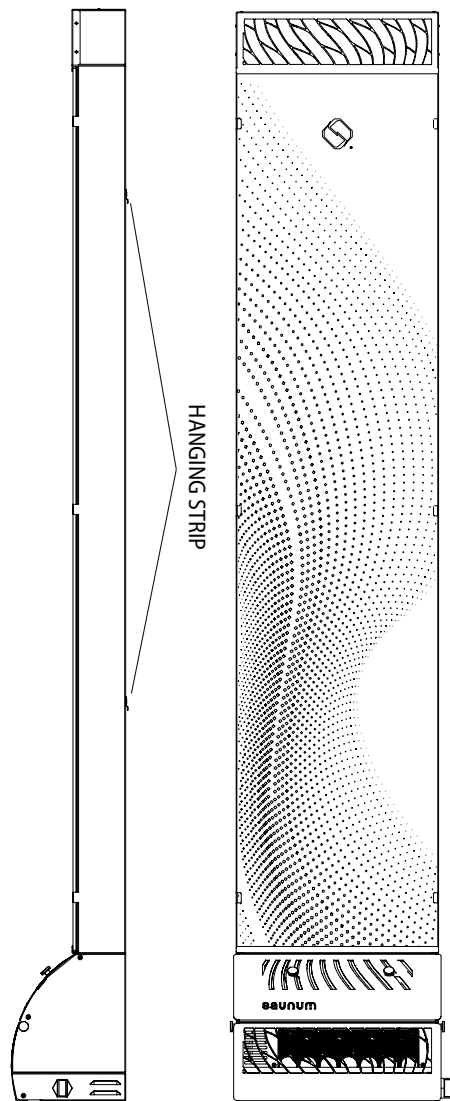




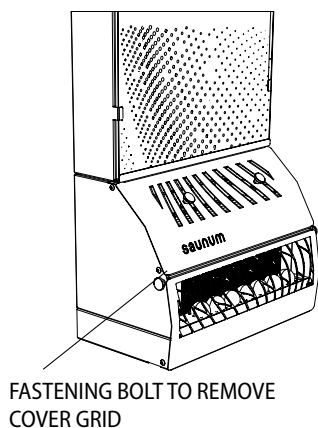
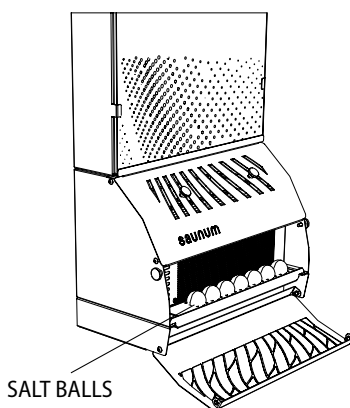
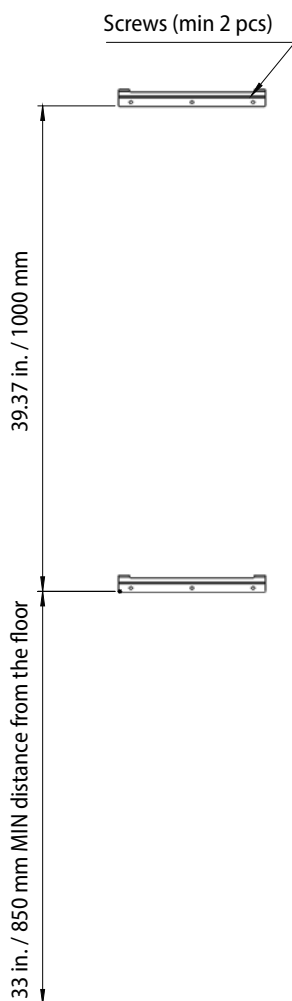
Figure 1E – Recommended installation of the Saunum AirSolo 70 / 80 model using a hanging strip.

1. Install the strips supplied with the Device on the wall. Use anchors if necessary.
2. Hang the Device on the wall-mounted strips. Make sure that the eyelets on the back of the Device rest equally on both slats. (If necessary, use a spirit level to ensure that the Device is level.)
3. **Check the Device for any external damage. It is forbidden to use a damaged Device!**



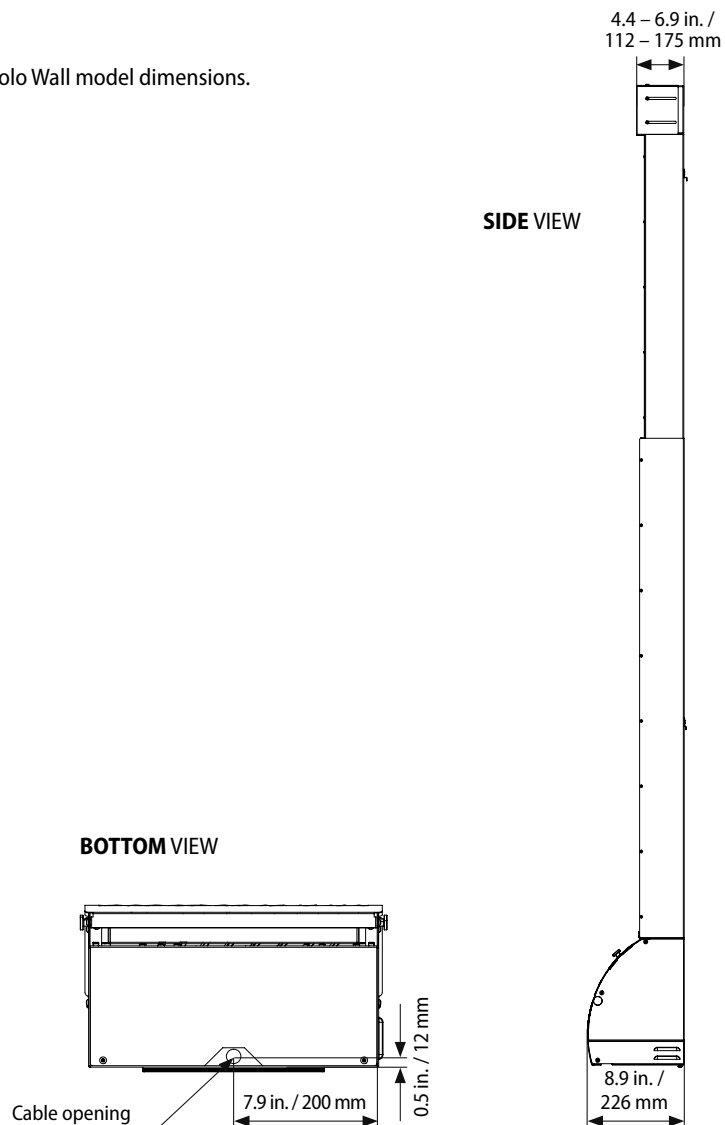


4. Install the salt balls. The salt balls are placed in the Device after it has been mounted on the wall. To install the balls, open the lower grille by removing the two hand-turned bolts. Place the balls in their slots on the tray.



**Figure 2**

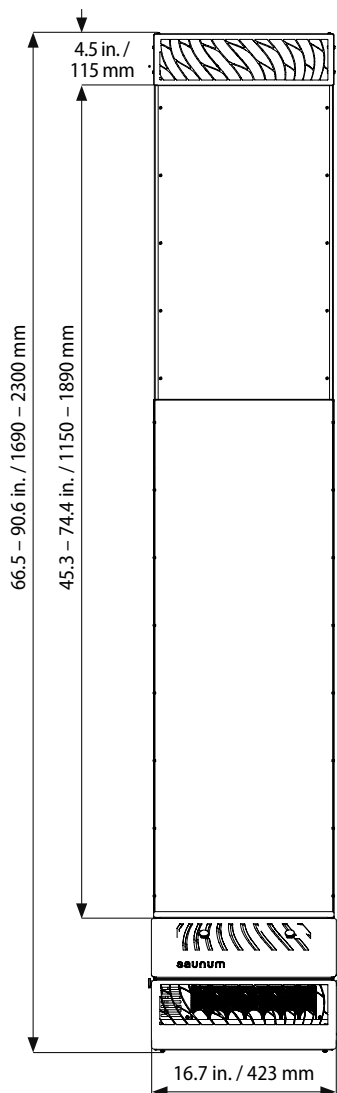
Saunum AirSolo Wall model dimensions.





DIMENSIONS OF THE DEVICE

FRONT VIEW



REAR VIEW

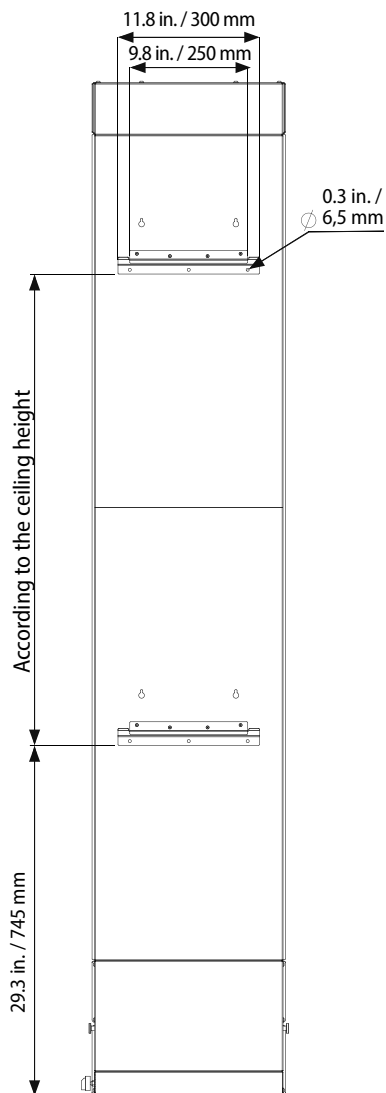




Figure 2A – Saunum AirSolo Wall model installation distances.

DEVICE WALL MOUNTED INSIDE OF WALL

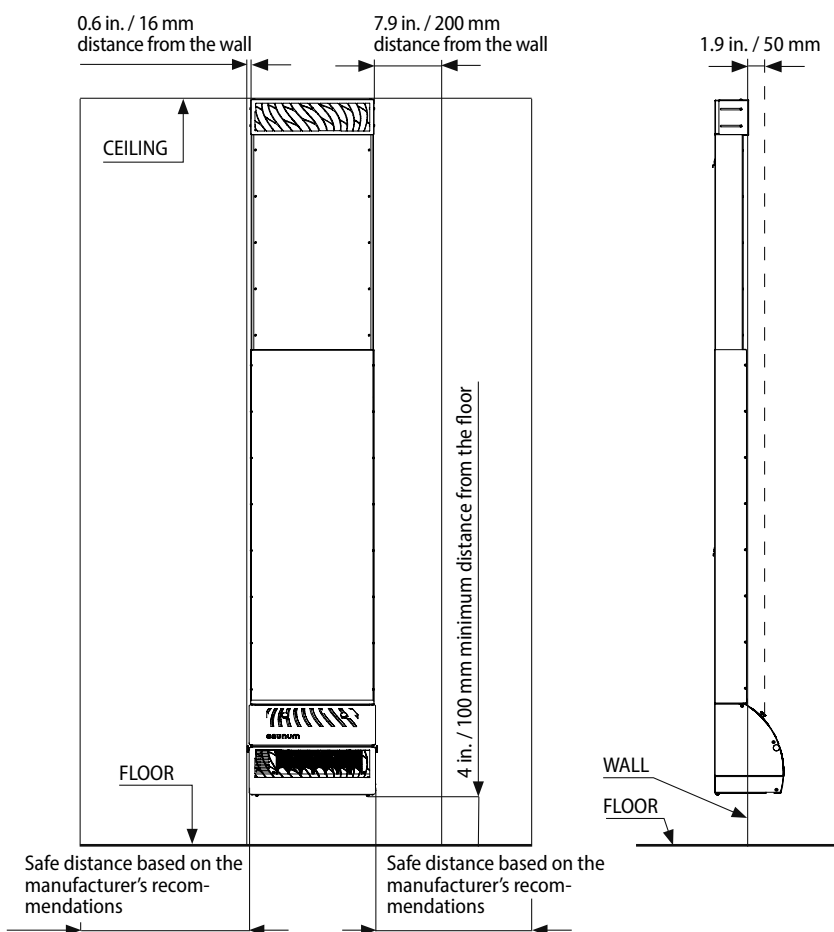




Figure 2B – Components of the Saunum AirSolo Wall model device.

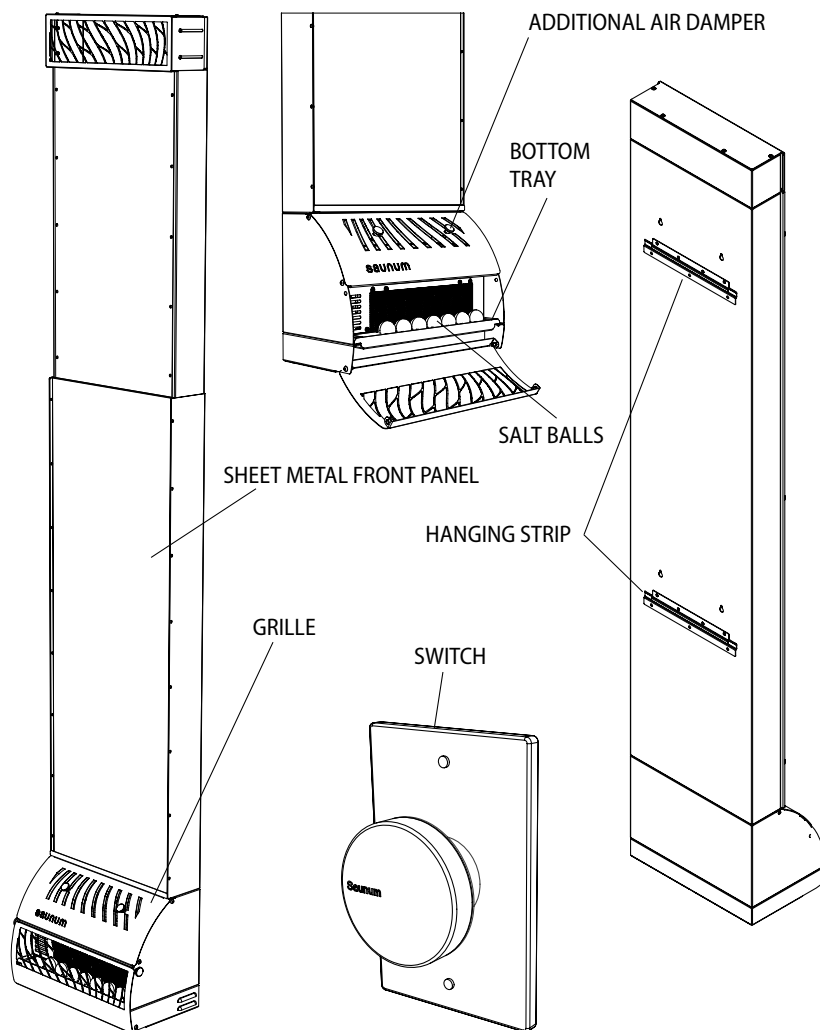
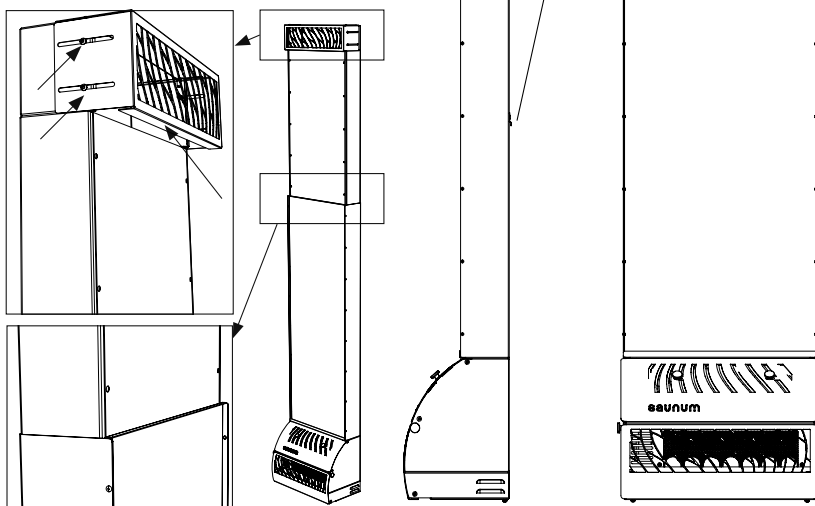
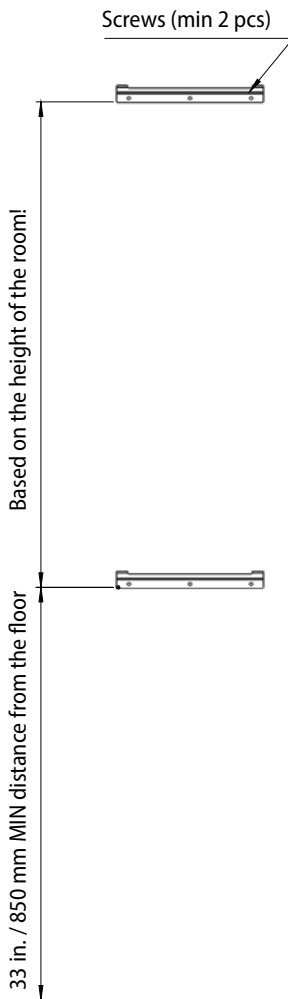




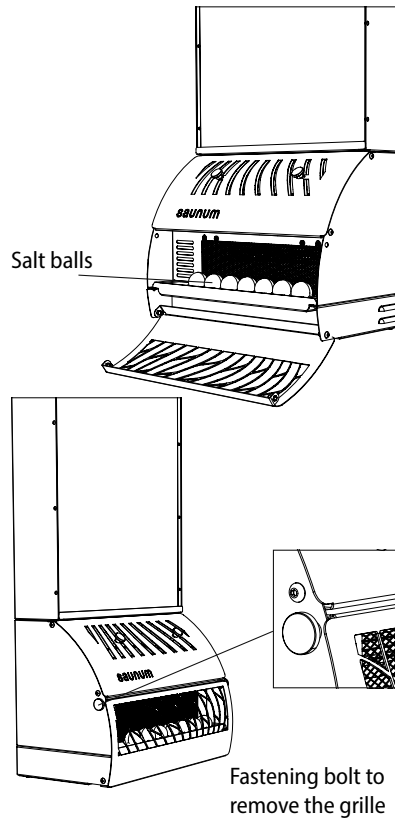
Figure 2C – Recommended installation of the Saunum AirSolo Wall model using a hanging strip.

1. Install the strips supplied with the Device on the wall. Use anchors if necessary.
2. Hang the Device on the wall-mounted strips. Make sure that the eyelets on the back of the Device rest equally on both slats. (If necessary, use a spirit level to ensure that the Device is level.)
3. **Check the Device for any external damage. It is forbidden to use a damaged Device!**
4. Before using the Device, cover all uncovered openings using the specified aluminum tape to do so.





5. Place the salt balls. The salt balls are placed in the Device after it has been mounted on the wall. To place the balls, open the lower grille by removing the two hand-turned bolts. Place the balls in their slots on the tray.





ELECTRICAL CONNECTIONS

ATTENTION! The Device must be installed by a person who is qualified to perform electrical work, in accordance with the applicable standards and requirements.

The Device must be permanently connected to the power grid using a screw terminal and a cable that is suitable for the temperature conditions in compliance with the electrical connection diagrams presented in this manual (Figures 3, 3A, 4, 5 and 6 on the following pages).

The outer diameter of the cable must not exceed 0.4 in. The connection terminal of the Device must be equipped with protective earthing (PE) with a minimum cross-sectional area of the wire being 16 awg. The Device must be powered by a 120 VAC / 0,31 A 60 Hz supply circuit which is protected with a 1A overcurrent protection device, and the supply circuit of the Device must also be equipped with a residual current device to ensure the safety of people in the steam room.

The lighting of the Device must be connected to either an external or internal switch. The power circuit for the external light switch must also be equipped with residual-current and overcurrent protection devices.

The lighting and fan circuits of the Device are connected to external switches, the

supply circuits of which are equipped with residual-current and overcurrent protection devices. The power cable must enter the Device housing vertically from below to prevent water from entering the Device along the cable. The external insulation layer of the cable may only be peeled off in the section which remains inside the housing of the Device.

The wiring diagram only applies to an illuminated Device with an external switch!

NB! Perform the wiring in accordance with the instructions provided for in the wiring diagram of the Device.

NB! The circuit must include residual-current and overcurrent protection devices!

NB! Only connect via residual-current and overcurrent protection devices!

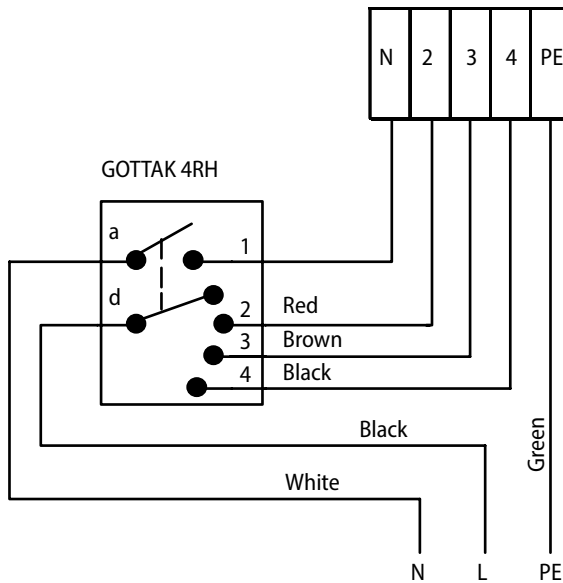
The power cable being used must be designed for stationary electrical installations and compliant with the requirements for the electrical installation installed in the steam room. The cross-section of the power cable must be 16–14 AWG.

Insert the power cable through the hole in the bottom of the Device, in accordance with the installation instructions.

The power cable must not be left lying on the floor of the steam room.



Figure 4 – Connecting the power cable to a Device equipped with an external fan speed switch.



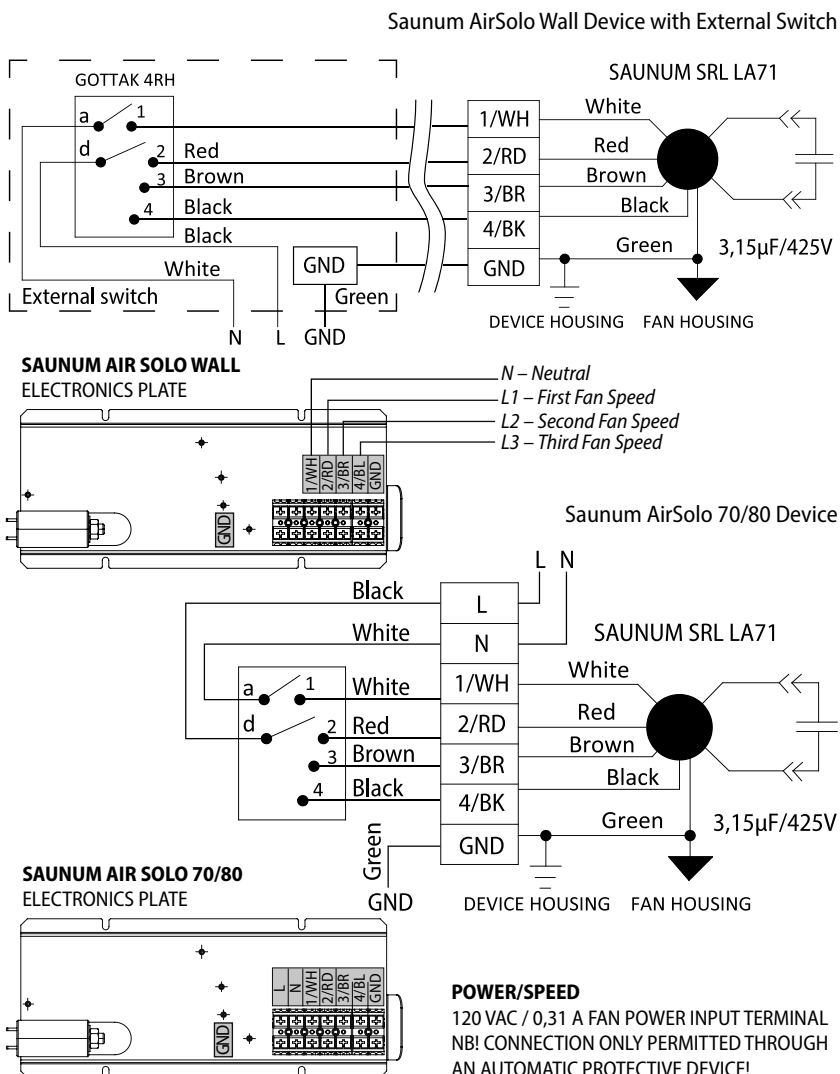
NB! The circuit must include residual-current device and overcurrent protection devices!

Fan power supply. NB! The circuit must include residual-current and overcurrent protection devices!

NB! Perform the wiring in accordance with the instructions provided for in the wiring diagram of the Device.



Figure 5 – Wiring diagram and electrical component board.







INSTALLATION REPORT

Purchase date: _____

Heater type: _____

Sticker / serial number:

Place of installation: _____

Date of installation: _____

Installed by: _____

Checked: _____

Date, signature: _____

Description of work performed: _____

All details are available for installation _____

No color defects or dents _____

Mounted on the wall or floor according to the instructions _____

The electrical connections have been made in accordance with the installation instructions _____

The three stages of the fan are running / in the correct order _____

NOTES: _____

Customer contact (name, e-mail): _____

Work accepted: _____

Warranty start date: _____

TO BE COMPLETED BY THE CUSTOMER

INSTALLATION REPORT



Manufacturer: Saunum Saunas OÜ

Address: Suur-Paala 19

11415 Tallinn, Estonia

certifies that the product:

Indoor climate unit in the sauna sauna room

complies with the requirements:

UL 875, Electric Dry-Bath Heaters, Edition 9, Revision Date 01/04/2021;

CSA C22.2 No. 164, Electric Sauna Heating Equipment, Edition 2,

Issue Date 02/2018.

These products do not contain hazardous substances in excess of 0.1% (SVHC) and meet the requirements of the REACH Regulation (1907/2006/EU REACH XVII) and comply with the requirements of the RoHS Directive (2011/65/EU, RoHS2 and 2015/863/EU, RoHS3)