ENG

INSTRUCTION FOR USE AND INSTALLATION

saunum

Saunum Automatic
Water Dispensing Unit **AutoLeil**

V_26_04.1

THE BEST SAUNA EXPERIENCE TO HAVE!

I am very glad that you have invested in the Saunum device, and I believe that our innovative technology will offer you a wonderful and extraordinary sauna experience.

I have a degree in thermal engineering and come from Southern Estonia, where my love for saunas began. The special feature of local historic smoke saunas is the lower temperature and higher humidity level than, for example, a classic Finnish sauna. In ordinary saunas, the stone volume of the sauna heater is generally small. Such an arrangement can cause a sudden, burning hot steam and an extremely uneven temperature, where your head and shoulder level is really hot, but your feet are left cold. Such an experience can be quite unpleasant and may cause headaches and lead to body stress. However, in ancient smoke saunas and Native American saunas, the stones were first heated during the day. Then the heat stored in the stones was used to cleanse the body and create a truly enjoyable sauna experience.

Inspired by the experience of a smoke sauna, I wanted to create an innovative solution that combines the best features of an authentic sauna with modern technology; enabling a pleasantly mild and relaxing sauna experience without painfully scorching steam. For that, however, I had to solve the problem of how to achieve an even temperature, at both the head and foot levels. My development work was supported by research done alongside Tallinn University of Technology, in which we analysed the thermal stratification and air movement in the sauna room. Saunum was born in cooperation between scientific thinking and technological innovation.

Saunum's unique patented mixing system of air layers captures the hot steam that rises under the ceiling of the sauna room, mixes it with the cooler air from the surface of the floor, and directs the milder steam back evenly. This makes for an enjoyable, unaggressive heat. You can sit in the sauna for a longer time and enjoy a sweat and a deep cleanse without feeling tired. The stone volume of our heaters is significantly larger than other sauna heaters, which is the reason for the especially pleasant indoor climate with long and soft steam.

A moist steamy sauna, a therapeutic salt sauna, or a healthy aroma sauna – all of these functions are available on Saunum's devices to create a truly relaxing sauna experience. When using Himalayan salt spheres in our device, salt ions that are beneficial to the skin and respiratory tract evaporate and the steam circulates these into the air. Adding a sauna aroma system that blends steam and healthy aroma oil creates an even more enjoyable sauna environment.

Saunum's sauna devices are suitable for both adults and children.

Have a pleasant sauna!

Andrus Vare
The creator of Saunum

ENG

Saunum **congratulates you** on choosing an innovative sauna automatic water dispensing unit!

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WARNINGS AND NOTES

All users of this product must read the warnings and manual carefully before using the product!

Failure to follow the instructions could result in personal injury, death, fire, and/or property damage, and the device's warranty may be voided.

The automatic water dispensing unit is meant for the automatic dispensing of water on the heated stones of a sauna heater. Through its humidity sensor and electronics, the unit measures, creates, and maintains the sauna climate according to the user's preferences.

It is not to be used for any other purpose!

This device should not be used by children, people with reduced mobility, or sick people. Children should use the device only under constant and close adult supervision.

Persons with reduced physical, sensory, or mental capabilities, or persons with a lack of experience and knowledge, should use this device only under constant and close adult supervision and only after consulting with a physician.

Before using the sauna, all users should consult with a physician to ensure that they have no health conditions that would make sauna bathing unsafe and discuss time and temperature limitations.

Pregnant women should consult their physician before the use of the sauna. Excessive body temperatures have the potential to cause foetal damage during early pregnancy.

The use of drugs, medication, or alcohol before or during the sauna session may lead to dizziness or unconsciousness, resulting in injury or death. No person should use this product while under the influence of alcohol or drugs.

Persons taking medications should consult with their physician to ensure that it is safe to use sauna while taking their medications.

Users should place a towel between their skin and sauna bench or wall while sitting or lounging in the room. When using the sauna, be aware of the dangers associated with going to the sauna.

Do not stay in the sauna room for more than 30 minutes at a time!

Prolonged exposure to steam can be harmful or fatal. Users should discontinue using the sauna if they feel light-headed, dizzy, or experience heat exhaustion. It is prohibited to sleep inside the heated sauna. Users should take care to avoid falling asleep while using the sauna.

WARNINGS AND NOTES

The electrical device should only be connected to the mains in accordance with all laws and regulations by a licensed, professional, certified electrician.

After connecting and installing the control unit, the installer must inform the sauna owner or operator of all operating requirements.

The requirements for use must be given by the owner or operator to everyone who uses the sauna.

All maintenance other than regular surface cleaning of the product must be performed by a trained professional.

Always disconnect the device from the mains before carrying out any maintenance work!

- Check the control unit for visible damage before installation and use. Do not use a damaged device or a device that has been modified from the original manufacturer's condition in any way.
- It is vital to install the device according to the instructions for installation and use. Failure to carefully follow all instructions can cause the risk of fire or short-circuit, leading to property damage bodily injury, or death.
- Accessories that the manufacturer has not approved should not be installed in this device. If suitable accessories are installed in the device, follow the accessory-specific operating and installation instructions!
- If the supply cord is damaged, it must be replaced by the manufacturers' service partner or a similarly qualified licensed, professional, certified electrician to avoid a hazard.
- Clean the control panel by using a lightly moistened cloth. Use only mild cleaning agents, never solvents or corrosive chemicals. Allow the product to dry thoroughly before operation.
- This product should not be disposed of with general household waste. When recycling your product, take it to your local collection facility or contact the place of purchase.

COMPONENTS

The Saunum water dispensing unit AutoLeil consists of:

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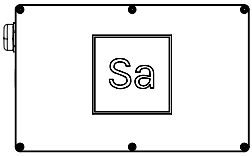

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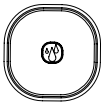

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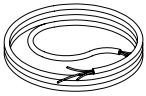

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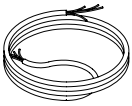

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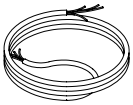

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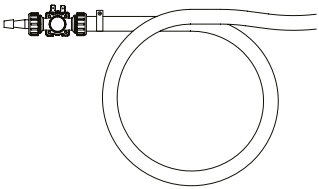


1. A control unit
2. An operating button
3. A spray nozzle
4. A humidity sensor
5. Communication cable from AutoLeil to Leil
6. Button cable
7. Humidity sensor cable
8. Water valve connection cable
9. Water valve
10. Button drilling template
11. Set of screws

The control unit controls the supply of water to the heater.

The operating button is used to turn ON/OFF the automatic dispensing function and throw extra water on the heater stones.

The spray nozzle creates a wide-dispersed water spray pattern.

The humidity of the sauna room is regulated based on humidity sensor readings.

USING AUTOLEIL UNIT
WITH LEIL CONTROL UNIT

NOTE! The device requires a Saunum Leil controller for operation and is suitable with Saunum heaters.

NB! AutoLeil requires the latest Saunum Leil controller software.

Before proceeding, be sure to update the "Control Panel" on the Leil touch screen.

AutoLeil communicates with the Saunum Leil controller via the data cable. Leil is the main controller of the heater system, whereas AutoLeil is an accessory device in the system.

AutoLeil is recognised by Leil when they are connected.

AutoLeil does not have its own user interface – it uses the touch screen control panel of the Leil system and the AutoLeil functions will appear in Leil system when the two systems are connected.

AutoLeil is designed for the automatic dispensing of water on the heated stones of a sauna heater and scans and maintains sauna climate according to the user's preferences through the sensors and electronics of the unit. It allows the sauna user to sit back and relax, while the sauna humidity is regulated automatically.

Water dispensing parameters and sauna climate parameters can be modified through the Leil touchscreen control panel.

- Controls the sauna room humidity according to humidity sensor readings.
- Throw user specified amounts of water at specified time intervals.
- The operating button inside the sauna allows throwing water on heated stones.

After completing the installation of the unit, the installer should give this manual to the owner of the sauna.

The product owner should provide the manual to all persons using or operating the sauna.

Please read more instructions for the installation, use, and recycling, in the original user manual of the control unit. Saunum reserves the right to modify this manual from time to time, and modifications will be posted to **www.saunum.com**.

This manual is following firmware version 10.7.0 of AutoLeil and 1.1.34 of Remote Panel.

Failure to follow the instructions could result in personal injury, death, fire, and/or property damage, and the device's warranty may be voided.

USING THE AUTOLEIL UNIT

The air in the sauna becomes dry as it heats up. Therefore, it is necessary to create steam to achieve a suitable level of humidity. The effects of heat and steam on people are different. When testing the different settings of the sauna climate device, you will find the most suitable combination of temperature and humidity. The effects of heat and steam on people are different.

- Always check there are no water leaks in the system.
- Always check that the water dispensing unit has switched off and stopped water dispensing after the operation period has elapsed.
- Always check that the water shut off valve is closed when the sauna session is finished.
- Make sure that the controller unit is installed in a dry room where the ambient temperature does not drop below 0 ºC to avoid the water in the system freezing.
- Excessive moisture may damage the electrical equipment and sauna construction!
- Make sure you have proper ventilation in the sauna room. Ventilate the sauna room after high-humidity sauna sessions.
- Avoid throwing excessive amounts of water on the stones.
- Prolonged sauna use can damage your health or cause death.
- Do not stay in the sauna room for more than 30 continuous minutes (in a row).
- Leave the sauna room if you feel sleepy, dizzy, or weak.
- Do not dry objects or living things in the sauna.

INSTALLATION **CONFIGURATION**

The red DIP switch can be used to configure the AutoLeil controller board (see page 15).

DIP switch nr 1 – Valve output selection:

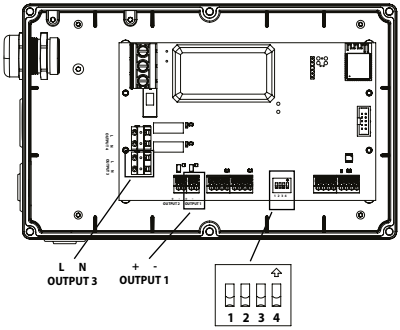
Switch ON to use 120 or 230VAC valve and connected to **OUTPUT 3**.

Switch OFF to use 12VDC valve and connected to **OUTPUT 1**.

DIP switch nr 4 – Installer mode:

Switch ON to remove button timeout restriction so installer can test if the button and valve are working correctly.

Switch OFF is default, for correct usage.



WATER QUALITY REQUIREMENTS

The water used for ladling onto the heater or supplied to the AutoLeil unit must comply with domestic drinking water quality standards.

To prevent corrosion, scaling, and damage to the heater and AutoLeil components, make sure the water does not exceed the following impurity limits:

Water properties	Effect	Maximum impurity level
Organic impurities	Colour, taste, precipitates	12 mg/l
Iron concentration	Colour, odour, taste, precipitates	0.2 mg/l
Manganese (Mn) concentration	Colour, odour, taste, precipitates	0.10 mg/l
Hardness (main substances: magnesium (Mg) and calcium (Ca))	Precipitates	Mg: 100 mg/l, Ca: 100 mg/l
Chloride-containing water	Corrosion	Cl: 100 mg/l
Water electrical conductivity	Corrosion, faster electrochemical reactions	3000 µS/cm

Do not use chlorinated water, seawater, water containing arsenic or radon. Such water poses a health risk and causes rapid corrosion of metal components.

TECHNICAL DATA

CONTROL PANEL (LEIL TOUCH SCREEN):

- Humidity adjustment range 5 – 60% RH.
- Water output period adjustment range: 0.3 – 4 sec.
- Automatic water dispensing interval adjustment range 1 – 10 min.
- Automatic water dispensing function duration adjustment range: up to 6 h (private) / up to 18 h (public) sauna setting.

AUTOLEIL MAIN UNIT:

- Supply voltage: 100 – 240VAC 1N~.
- Length of outlet hose 1.5 m (59 in).
- Dimensions: 60 × 257 × 165 mm (2.7 × 10.1 × 6.5 in).

AUTOLEIL OPERATING BUTTON:

- Length of cable: 13.12 ft (4 m).
- Dimensions 72 × 72 × 15 mm (1.2 × 2 × 0.8 in).

AUTOLEIL HUMIDITY SENSOR:

- Length of cable: 4 m (13.12 ft).
- Dimensions 30 × 50 × 20 mm (2.8 × 2.8 × 0.6 in).

ELECTRICAL CONNECTIONS

The connection of the main unit is shown on the diagram of electrical connections on **page 14-15**.

For more information on connecting the heater or Leil control unit, see the respective heater and/or Leil control unit installation and operating manuals.

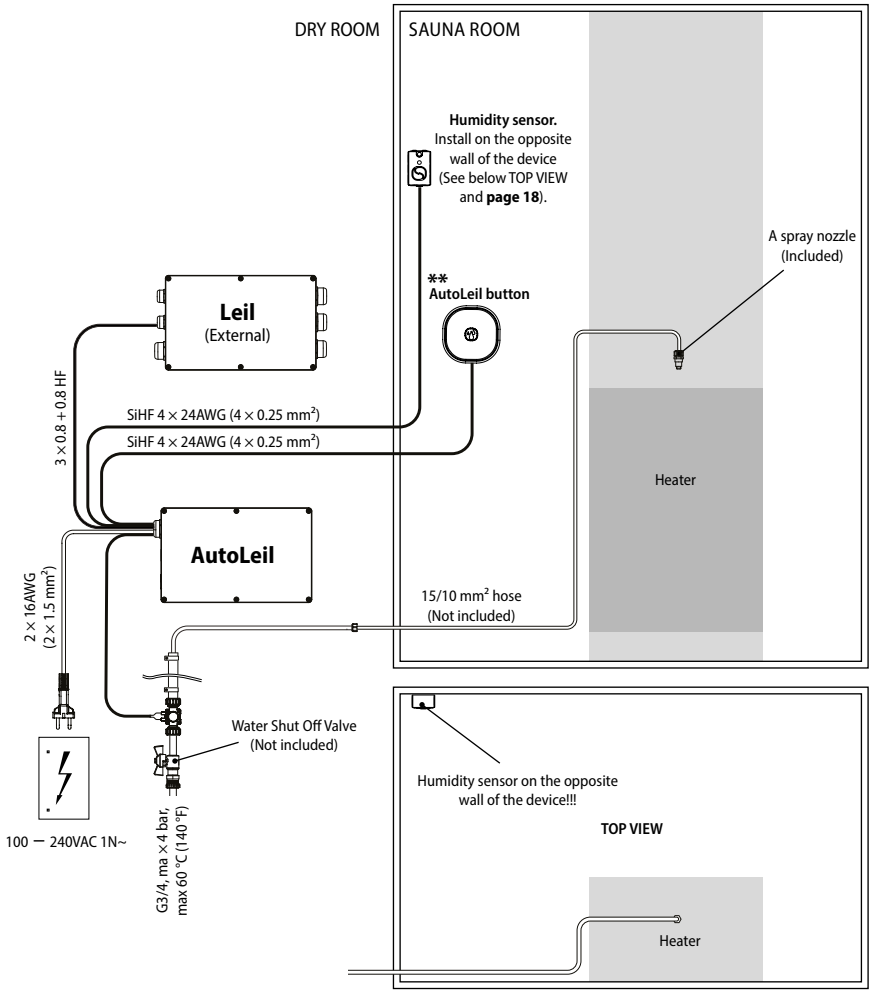
If the connection and installation cables are located higher than 3.3 ft (100 cm) from the floor of the sauna room or inside the walls of the sauna room, they must be able to withstand a temperature of at least 170 °C (340 °F) (e.g., SSJ).

Electrical equipment installed in the sauna room below 3.3 ft (100 cm) from the floor must withstand a temperature of at least 125 °C (257 °F) (e.g., T125).

RECOMMENDED SIGNAL CABLE SIZES

NOTE! If it is necessary to extend the provided cables, use cables with similar technical specifications.

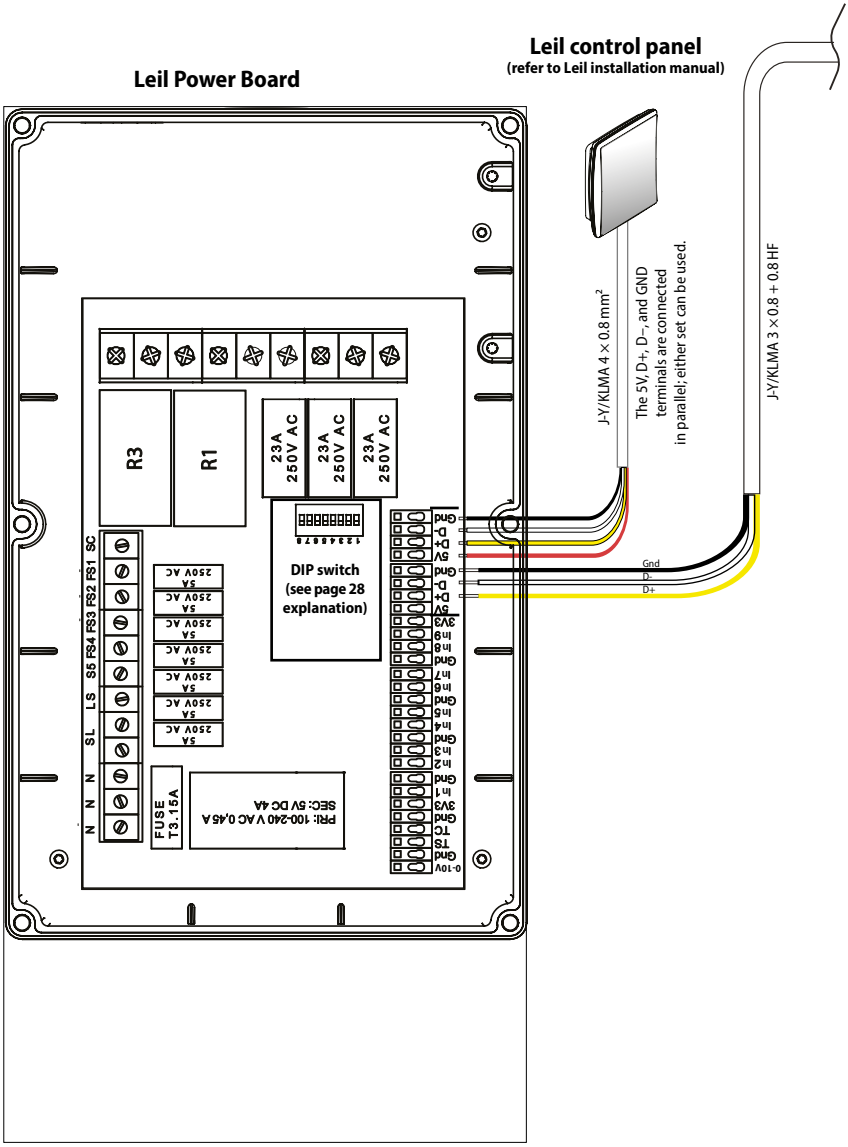
Operating Button	SiHF temperature-resistant cable, 4 × 0.25 mm^2 (4 × 24AWG)
Humidity sensor	SiHF temperature-resistant cable, 4 × 0.25 mm^2 (4 × 24AWG)
Communication cable	J-Y/KLMA 3 × 0.8 + 0.8 HF



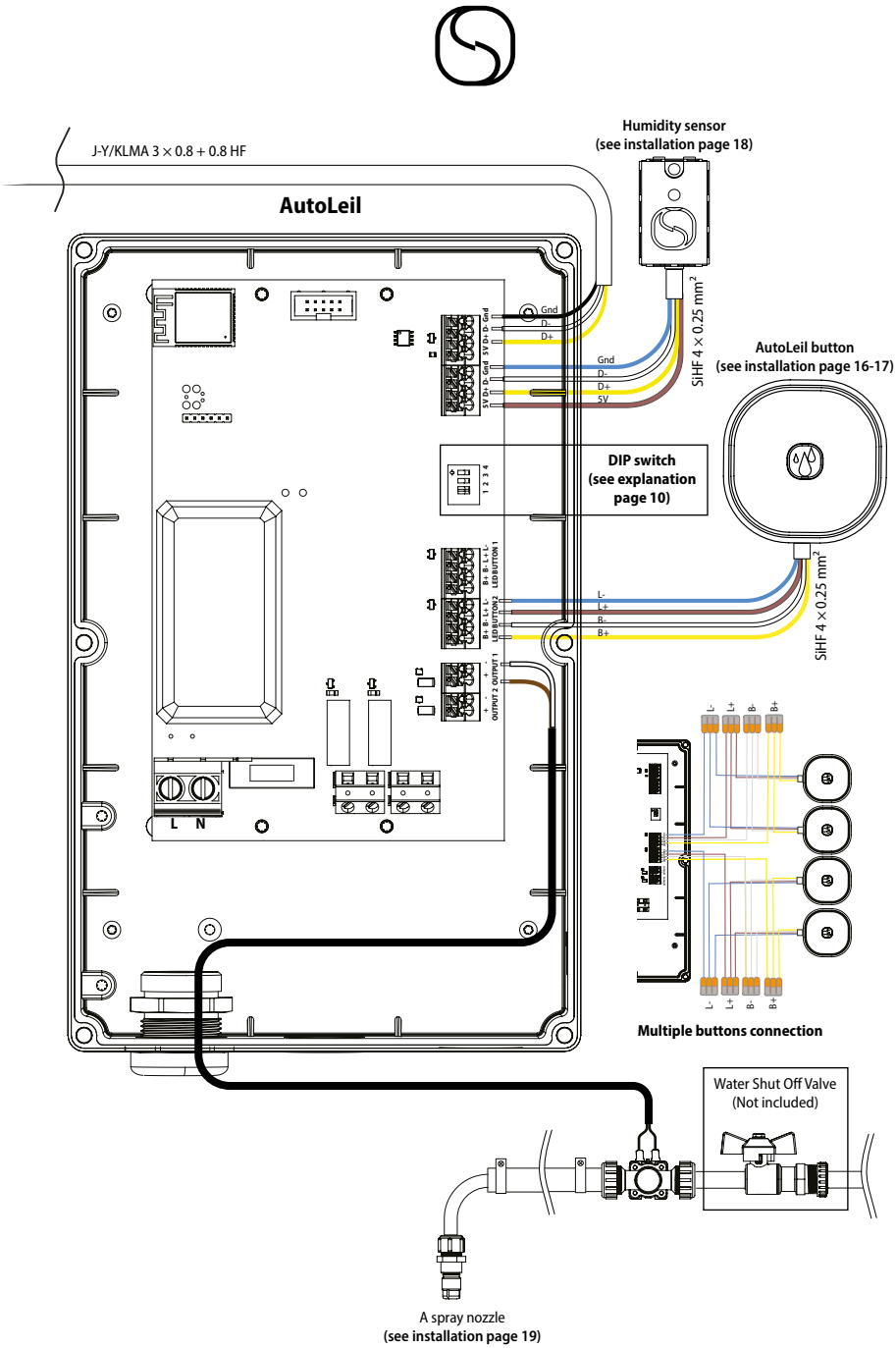
* Information on how to connect and access to the Leil control unit, see the respective Saunum climate device and Leil control unit installation and operating manuals.

** Possible to add up to 4 buttons.

ELECTRICAL CONNECTION



ELECTRICAL CONNECTION



INSTRUCTIONS
FOR INSTALLATION

WARNING! Failure to install the product in accordance with all instructions herein will void the warranty. It can result in the risk of fire and/or electrical short-circuiting, leading to property damage, bodily injury, or death.

A licensed professional electrician may only do the installation of the control unit in accordance with current regulations. The person in charge of the installation should provide the necessary training and return the user manual to the product owner after completing the installation. The product owner should provide access to the manual to all persons using or operating the product.

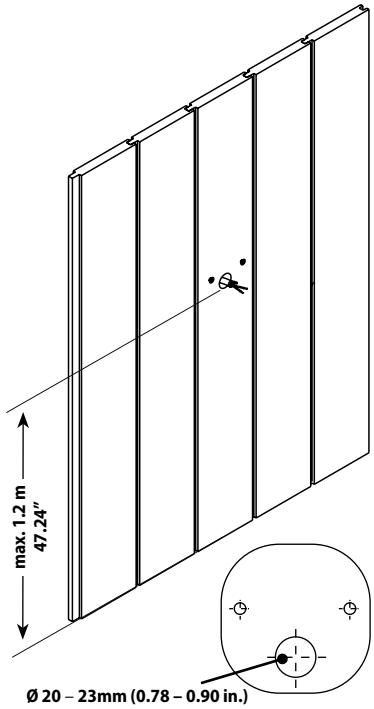
INSTALLING
THE OPERATING BUTTON

Install the operating button inside the sauna room. The button can be installed on the sauna wall or on the bench. It is best to install it at a maximum height of 1.2 m (47.24 in) from the floor, and not on the opposite wall of the front side of the Saunum heater.

For concealed installation, the data cable can be installed in a protective tube inside the wall; if this is not possible, it must be installed on the wall surface.

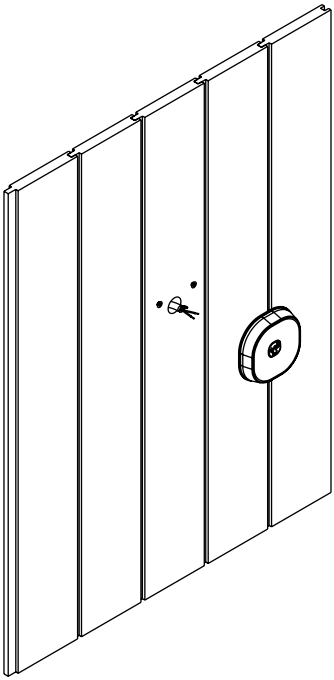
1. Use the printed template to mark locations for screw holes and a drill hole 20 – 23 mm (Ø 0.78 – 0.90 in drill bit) for the cable connector.

If the cable is not concealed inside the wall, the hole can be only 5 mm (0.2 in) deep or carved into the wall using a sharp blade.



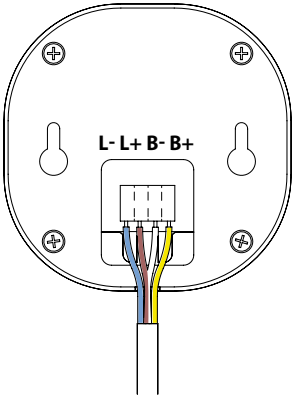
The operating button must be installed on the wall, in a place protected from water splashes.

2. Install the screws, leaving the heads out 0.11 – 0.15 in (3 – 4 mm) from the wall. Drill the hole through the wall and bring the cable to the opening. Pull enough cable through the hole to connect the cable to the button connectors.



3. Connect the wires to the button connector. Make sure the wires are connected to the main unit in the same color code order. See also the electrical schematic on **page 15**.

4. Connect the button to the wall, aligning screw heads with the keyholes in the back of the button.



NOTE! If it's not possible to conceal the cable inside the wall, it can be installed on the wall surface. In this case, the wires must be pulled through the groove in the wooden enclosure before connecting to the connector.

Up to four AutoLeil Buttons can be connected to a AutoLeil Main Unit using WAGO connectors. The buttons are wired in parallel, matching polarity (L-, L+, B-, B+). Ensure that all wire colors correspond to the terminal order on the control unit.

WAGO connectors must be suitable for low-voltage signal wiring and installed inside a protected junction point. See also the electrical schematic on **page 15**.

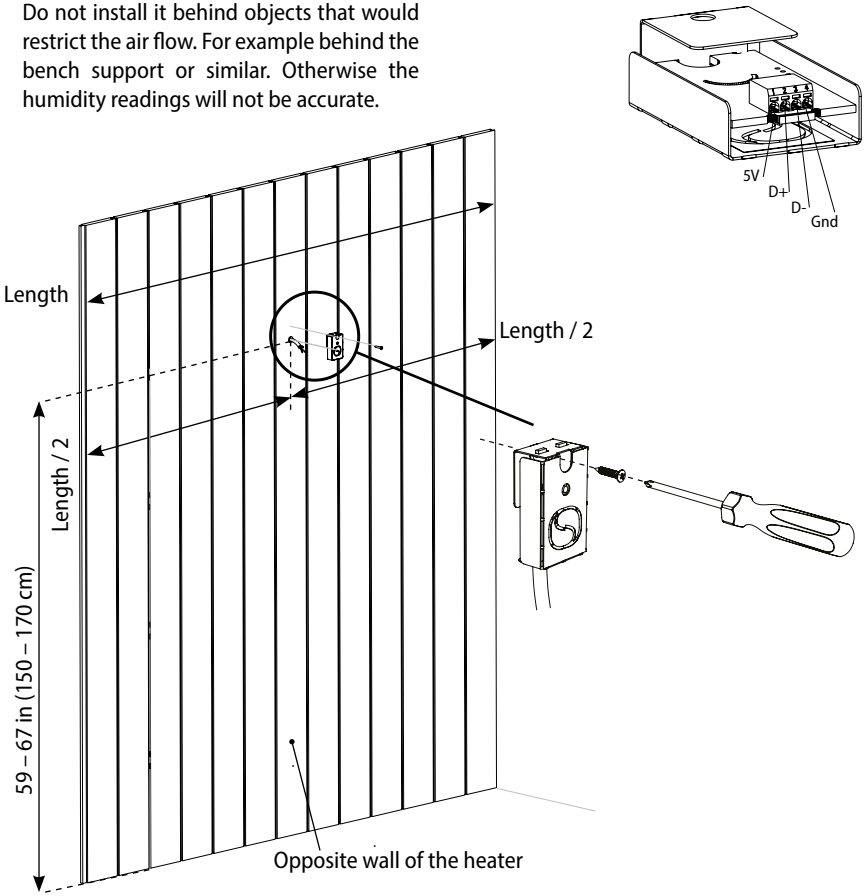
INSTALLING
THE HUMIDITY SENSOR

The humidity sensor must be located on the opposite wall of the Saunum climate device.

Do not install it behind objects that would restrict the air flow. For example behind the bench support or similar. Otherwise the humidity readings will not be accurate.

The desired position is shown on below pictures.

Connect the sensor with 4 × 24AWG (4 × 0.25 mm^2) humidity sensor data cable (see **page 14-15).**



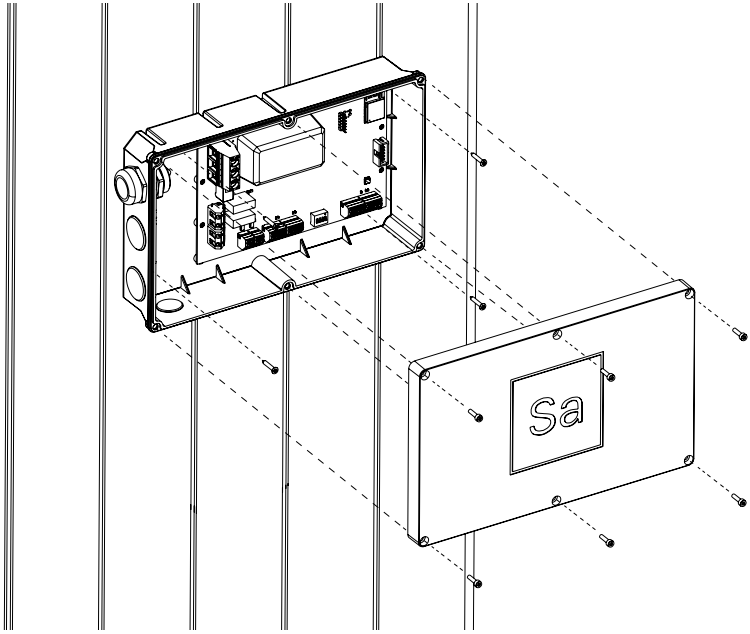
INSTALLING
THE MAIN UNIT

The installation location for the main unit must be a dry space outside the sauna room with a floor drain (ambient temperature >32 ºF (>0 ºC) to avoid freezing of the water hose/pipes).

Fix the unit to the wall and make the electrical and water supply connections.

Make sure to install the water valve below the main unit box to avoid possibility of water leakage into the electronics.

As the AutoLeil Main Unit needs to communicate with Leil controller, it is advised that they are positioned close to each other (see **page 13**). The Main Unit communicates with Leil via the provided data cable 4.9 feet. (1.5 m), see **page 14-15** for further information about electrical connections.



INSTALLING **THE PIPING**

Only the spray nozzle is included in the AutoLeil package.

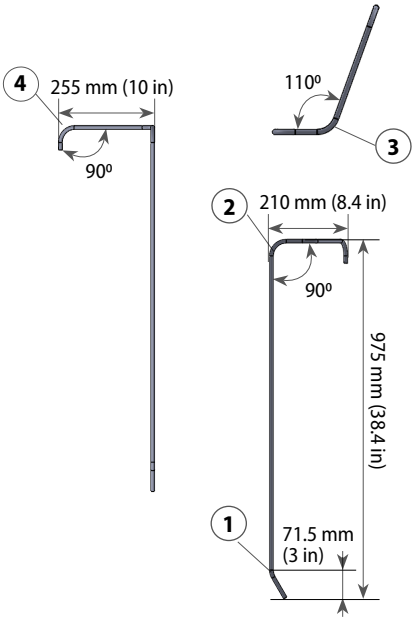
The other piping supplies are not included.

We recommend using a copper or stainless steel pipe (outer diameter 10 mm /0.4 in) and metal fasteners.

NOTE! Piping must be heat resistant in the vicinity of the heater.

The pipe bending must be done on-site with a pipe bending tool.

The outlet of the water pipe must be centered 150 – 300 mm (5.9 – 11.8 in) above the stone basket stones.



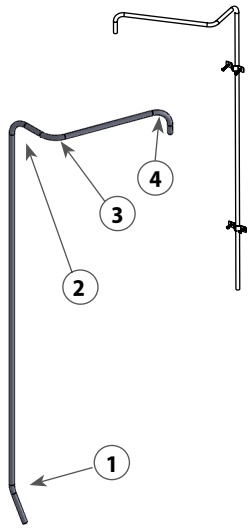
Exception: For Spa Session, the water pipe may be placed directly on the stones.

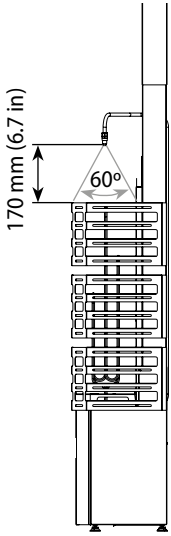
See an installation example of the spray nozzle and piping in the figure below. We recommend using the spray nozzle delivered with the device.

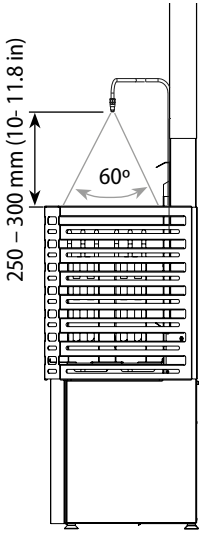
Pre-bent stainless steel pipes for Saunum climate device are sold separately from the AutoLeil package.

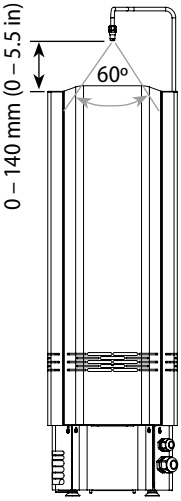
These pipes should be clamped onto the wall right next to the heater to save time during installation.

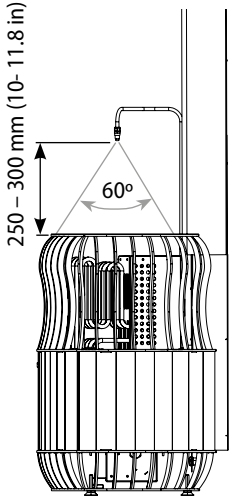
Pre-bent stainless steel pipe











INSTALLING **THE NOZZLE**

When the pipe is installed, fit the spray nozzle in the end of water outlet pipe.

Cut the pipe square, deburr properly.

Slide cap nut (**1**) and compression ring (**2**) over tube end.

Push the fitting (**3**) against the pipe.

Push the nut (**1**) and ring (**2**) towards the fitting (**3**) and tighten by hand.

Make sure you keep pushing the fitting against the pipe the entire time.

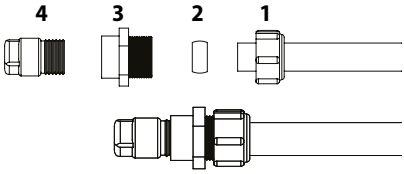
Tighten the cap nut (**1**) with a wrench. The adequate number of turns for 10 mm (3/8") copper pipe is 1 full turn (360°) and for 10 mm (3/8") stainless steel pipe ¾ full turn (270°).

NOTE! Do not use a pipe-wrench!

Finally, tighten the spray nozzle (**4**) (external thread G¼) into the fitting (**3**).

After every water connection is made, pressurize the system and test for potential leaks.

Re-do or tighten the connections if necessary.



UPDATE AUTO**LEIL**

AutoLeil settings will appear on the control panel **after** AutoLeil is connected with Leil power board (see page 14-15). It is always a good idea to update AutoLeil to the latest version by going to main menu and select update **(Fig. 1)**.

⚠ If AutoLeil update button is not displayed **(Fig. 2)**, it means the Leil control panel did not detect AutoLeil control board and it may be necessary to reboot the Leil control panel.

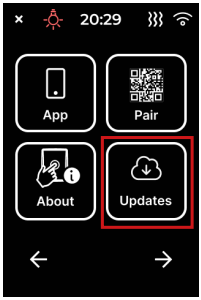


Figure 1

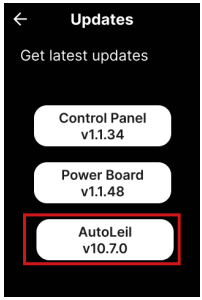


Figure 2

CONFIGURE A **SAUNA TYPE**

To start by configuring a personal pre-set sauna experience with Leil control panel go to the main menu **(Fig. 3)** - select Types and then **Sauna type 1-3 (Fig. 4)**.
Rename it if needed (e.g. Mild (**Fig. 5**)) - select **OK**.
Set the desired sauna session parameters **(Fig. 6)**: target temperature, ventilator speed & duration and sauna session duration - select **OK**.

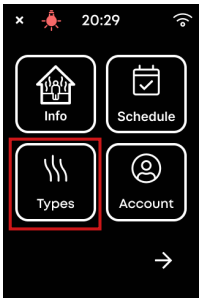


Figure 3

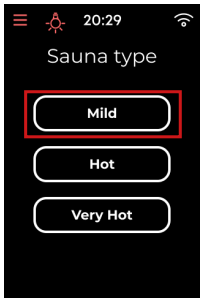


Figure 4

Figure 5

Figure 6

AUTO**LEIL SETTINGS**

Choose the water dispensing mode – Humidity, Interval **(Fig. 7, 8)**.

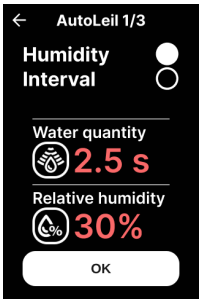


Figure 7

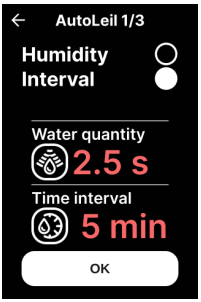


Figure 8

Humidity mode

Relative humidity - define desired relative humidity (RH) between 5 – 90 % **(Fig. 9)** in the sauna room.

AutoLeil automatically optimizes the water quantity and dispensing interval in order to reach the desired humidity level and maintain it throughout the session duration.

The maximum RH value depends on the set temperature. The combined value of temperature (°C) and relative humidity (%) must not exceed 130. For example, at 70 °C (158 °F), the maximum RH is 60%. The approximate temperature/humidity limits are shown on **Figure 11**.

Water is dispensed at 1-minute intervals of the defined water quantity until the target RH value is reached. Water is then dispensed only when the humidity drops 5 % below the target.

Interval mode

Water quantity - define the water quantity from 0.3 – 4 sec **(Fig. 10)**.

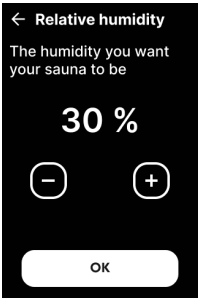


Figure 9

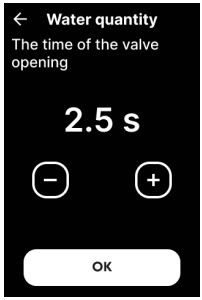


Figure 10

Find correct water quantity

Every home and spa have different water pressure and not every water quantity will deliver the same amount of water everywhere.

A convenient way to set the recommended water quantity is to take a glass of water of approximately 100 ml (3.4 fl oz), place it under AutoLeil nozzle and press the button.

The amount of water dispensed should fill the glass as much as possible. Adjust the water quantity value in the menu until you get the desired result.

As every sauna has unique ventilation, insulation, room size, layout, power of the heater, etc., the target RH value might not be possible to obtain or is reached at the expense of overly cooled stones.
Experimenting is necessary to determine the most optimal dispensing parameters.

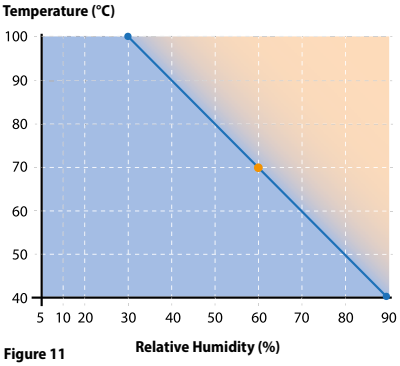


Figure 11

Rule: The combined value of temperature (°C) and relative humidity (%) must not exceed 130.

Examples: 40 °C max. 90% RH;
70 °C max. 60% RH;
100 °C max. 30% RH.

Time interval - set the time interval from 1 – 10 min of the water dispensing (**Fig.12**).

The exact amount of water dispensed depends on the water tap pressure. Please note that, in most cases, with good water pressure a 2 – 4 second value for water quantity can be an excessive amount of water.
We recommend to start testing with 0.5 – 0.8 seconds to get a feel.

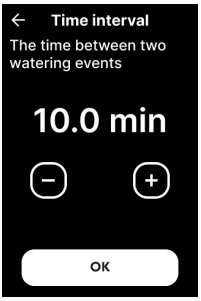


Figure 12

ADDITIONAL **SETTINGS**

The 2nd page of AutoLeil setup **(Fig. 13)** is for button and session settings and are common for any of the 3 modes selected previously **(p. 23).**

Button enabled – Activate the button to dispense water.

Button timeout – set the inactivity time between 2 button activations between 5 sec – 5 min **(Fig. 14)**.

Duration – set the session time 1 – 6hr **(Fig. 15)**.

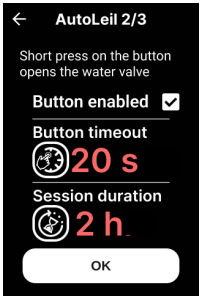


Figure 13

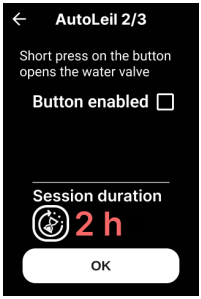


Figure 14

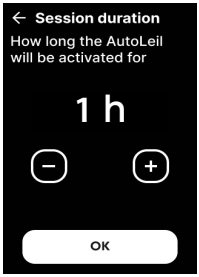


Figure 15

The 3rd page of AutoLeil setup **(Fig. 16)** is for synchronization with the sauna session and recirculation fan.

Ready mode - the AutoLeil will switch on automatically as soon as the sauna reaches the target temperature and displays "Ready" **(Fig. 17).**
This option is useful to be sure that the sauna environment is perfect when you get inside.

Automatic vent - the heater re-circulation fan will turn on when water is dispensed by the AutoLeil valve.
The duration of the fan is the same duration set in the sauna type **(p. 22, Fig. 6)**. This is useful when the re-circulation fan is not always in use during the sauna session and you want to make sure to use the full feature of the Saunum heater.

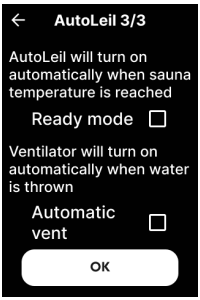


Figure 16

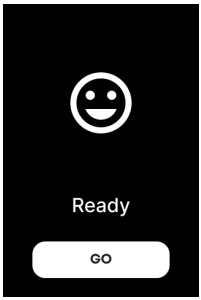


Figure 17

SAUNA SESSION

To start the sauna, select a pre-set sauna type such as Mild from the main menu **(Fig. 18)**.

AutoLeil settings are shown in the bottom row **(Fig. 19)** and can be adjusted by selecting it **(see p. 22, Figs. 5, 6)**.

Depending on the selected mode, the setting appears as a percentage ("%") in Humidity Mode, in minutes ("min") in Interval Mode.

If the AutoLeil settings are not displayed, this indicates that AutoLeil is not recognized by the Leil control panel.

Once the sauna is ready **(Fig. 22)**, the active AutoLeil mode is shown on the display: HUMIDITY, INTERVAL **(Fig. 22, A)**.

Selecting the AutoLeil humidity value **(Fig. 22, B)** opens the previously mentioned settings page **(p. 22, Figs. 7, 8)**.

The session can be toggled on or off via the humidity icon **(Fig. 22, C)**.

When active, this icon blinks.

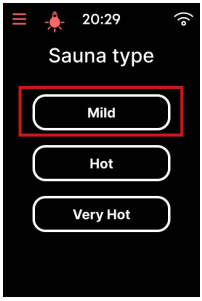


Figure 18

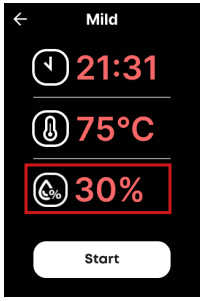


Figure 19

Figure 20

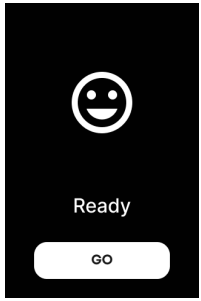


Figure 21

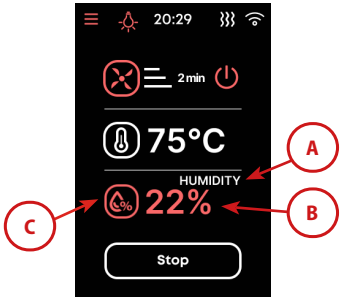
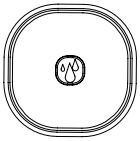


Figure 22

BUTTON



The button is intended for manually dispensing additional splashes of water on the rocks.

The button is intended for manually dispensing water, as long as it is enabled (**Page 25, Fig.13-14**).

Water - by pushing the operating button, the device dispenses a pre-set amount (**Page 23, Fig.10**, "Water quantity") of water on the heater stones.

LED light

Solid light indicates when the button is ready to be pushed.

The light blinks slowly 3 times to acknowledge the valve opening. It doesn't matter whether water is dispensed via a button press or automatically.

The light blinks fast 5 times when the button was pushed while not yet ready (timeout still on-going) or disabled in the menu.

⚠ To avoid flooding of the heater, the button is not enabled as long as: the sauna session is not ready (**Page 25, Fig.13-14**) or the sauna temperature is below 55 °C (131 °F).

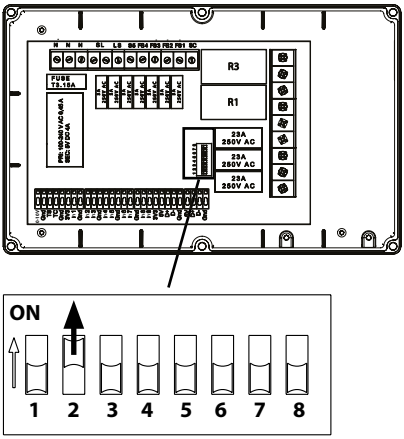
PUBLIC SAUNA

The AutoLeil maximum duration can be set to match the sauna session duration — up **to 6 hours for private** use and up to **18 hours for public sauna**. In order to set up the system for longer use, a manual switch needs to be made on the **Leil Power Board** (inside the control box).

Not to be confused with AutoLeil circuit board!

- Open the cover on the **Leil** controller (secured with 6 screws).
- On the circuit board the red dip switch nr. 2 to the ON position **(Fig.24)**.

Leil Power Board (p. 14)



Switch **ON** nr 2

Figure 24

After making the switch, the AutoLeil settings are updated automatically.

We recommend setting a small water quantity and **sufficient dispensing intervals** to prevent the stones from cooling down — for example, a 0.5-second water splash every 3 to 5 minutes.

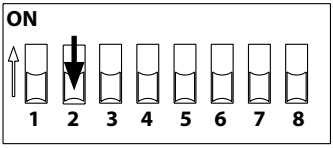
We also recommend activating the "**Automatic Vent**" function from the AutoLeil options **(Fig. 16).**

In public sauna mode, the ventilator duration and water dispensing interval should be set in roughly a **50/50 ratio**.

For example, if the watering interval is set to **5 minutes**, the ventilator timing should be **2–3 minutes**.

NB! Experimenting is necessary to determine the most optimal dispensing parameters!

Default settings can be restored **ONLY** if the red dip switch on the Leil power board is returned to its original position (**Fig.25**).



Switch **OFF** nr 2

Figure 25

WARRANTY

With the Saunum device warranty, Saunum guarantees that the product will be free from defects in the materials and the assembly for a specified period after the date of purchase. If, during the warranty period, the device is found to be defective due to the use of substandard materials or the quality of the assembly, Saunum's recommended repair partners will repair or replace the device or its defective part under the conditions set out below. Saunum reserves the right to decide whether to replace the defective product component or to replace the device with a new one. The 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. The device has been connected to the power network by a qualified electrician in accordance with the regulations in force.
3. The warranty period of the sauna climate device when used in a private sauna is two (2) years.

Not covered by the warranty:

1. Routine maintenance and cleaning of the device and replacement of the components due to normal wear and tear.
2. Adaptation or modification of the device for any purpose other than that indicated in the instructions for use.
3. Risks arising from transport.
4. Damage resulting from the misuse of the device.
5. Damage resulting from the improper installation of the device;
6. Repairs to the device not carried out by Saunum's recommended repair partner (maintenance partner).
7. Accidents, lightning, water, fire, improper ventilation, or any other factor beyond the control of Saunum.
8. Breakages caused by the use of stones and salt spheres not recommended by Saunum.
9. The heating elements and the salt spheres.
10. Saunum will not cover labor cost.

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.**

INSTALLATION **REPORT**

Date of purchase: _____

Heater type: _____

Date of installation: _____

Place of installation: _____

Installed by: _____

Checked by: _____

Date, signature: _____

Description of the work done: _____

All the details are available for the installation _____

There are no color defects or dents _____

Installed on the wall or on the floor according to the instructions _____

The electrical connections are made according to the installation instructions _____

All the heating elements heat up _____

The three fan speeds are working / in the correct order _____

Notes: _____

Customer's contact (name, email address): _____

Received work: _____

Warranty start date: _____

Read all of the instructions for use carefully and thoroughly before using the device and keep them in a safe and easily accessible place for future reference.

NOTES

ENG

INSTRUCTIONS FOR USE AND INSTALLATION

Manufacturer: Saunum Saunas OÜ
Suur-Paala 19,
11415 Tallinn, Estonia

certifies that the product:

Saunum Automatic Water Dispensing Unit AutoLeil

complies with the requirements of the following directives of the European Parliament and of the Council, provided that the installation has been carried out in accordance with the installation instructions issued by the equipment manufacturer and EN 60 204-1 "Safety of machinery. Electrical equipment for the machinery – Part 1: General requirements":
Machinery Directive 2006/42/EC
Low Voltage Directive 2014/35/EU
Electromagnetic Compatibility Directive 2014/30/EU.