



saunum

Saunum Automatic
Water Dispensing Unit **AutoLeil**



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



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



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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.



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 AutoLeil main 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.

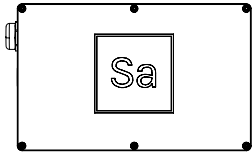
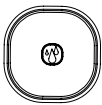
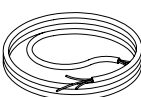
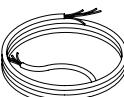
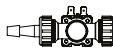
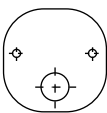
Always disconnect the device from the mains before carrying out any maintenance work!

- 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 manufacturer's 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.
- Check the AutoLeil main 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.



COMPONENTS

The Saunum water dispensing unit AutoLeil consists of:

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 

1. AutoLeil main unit
2. AutoLeil button
3. Spray nozzle
4. Humidity sensor
5. Communication cable from AutoLeil to Saunum control unit
6. Button cable
7. Humidity sensor cable
8. Water valve connection cable
9. Water valve
10. Button drilling template
11. Set of screws

The AutoLeil main unit controls the supply of water to the heater.

The AutoLeil physical button is used to turn ON/OFF the automatic dispensing function and dispense additional water onto 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.

The **water pipe** and other piping supplies are not included in the AutoLeil package.

A pre-bent stainless steel pipe designed for Saunum climate devices can be **purchased separately**.



USING AUTOLEIL UNIT WITH SAUNUM CONTROL UNIT

NOTE! The device requires a Saunum control unit and is compatible with Saunum heaters.

NOTE! AutoLeil requires the latest Saunum control unit and control panel software. Before proceeding, make sure that both are up to date.

AutoLeil communicates with the Saunum control unit via a data cable. The control unit is the main automation unit controlling the sauna system, while AutoLeil is an accessory connected to the system.

The control unit automatically recognises AutoLeil when the devices are connected.

AutoLeil does not have its own user interface. It is operated using the Saunum touchscreen control panel. The AutoLeil functions appear on the control panel once AutoLeil has been connected to the control unit and recognised.

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 Saunum touchscreen control panel.

- Controls the sauna room humidity according to humidity sensor readings.
- Throw user specified amounts of water at specified time intervals.
- The physical 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 Saunum **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 applies from the following firmware versions onwards:

AutoLeil: 1.8.1

Power board: 1.2.1

Control Panel: 1.2.5

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.

- 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 water valve and hoses are installed in a location where the ambient temperature does not drop below 0 °C / 32 °F to prevent the water from 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:

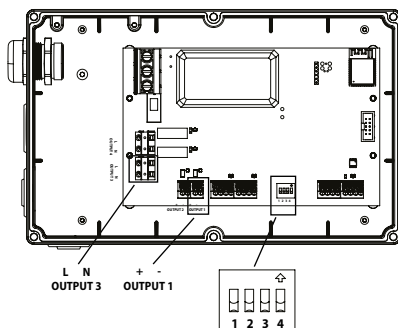
Switch ON to use 120 or 230VAC valve and connected to **OUTPUT 3**.

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 μ S/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 (TOUCH SCREEN):

- Humidity adjustment range 5 – 90 % RH.
- Water output period adjustment range: 0.3 – 4 sec.
- Automatic water dispensing interval adjustment range 1 – 10 min.
- Automatic water dispensing duration: up to 12 h in private sauna and up to 18 h in public sauna, but not longer than the sauna session.

AUTOLEIL MAIN UNIT:

- Supply voltage: 100 – 240VAC 1N~.
- Length of outlet hose: 1.5 m / 59 in.
- Dimensions: 60 × 257 × 165 mm / 2.4 in × 10.1 × 6.5 in.

AUTOLEIL BUTTON:

- Length of cable: 4 m / 13.12 ft.
- Dimensions: 72 × 72 × 15 mm / 2.8 × 2.8 × 0.6 in.

AUTOLEIL HUMIDITY SENSOR:

- Length of cable: 13.12 ft (4 m).
- Dimensions: 30 × 50 × 20 mm / 1.2 × 2 × 0.8 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 Saunum control unit, see the respective heater and/or control unit installation and operating manuals.

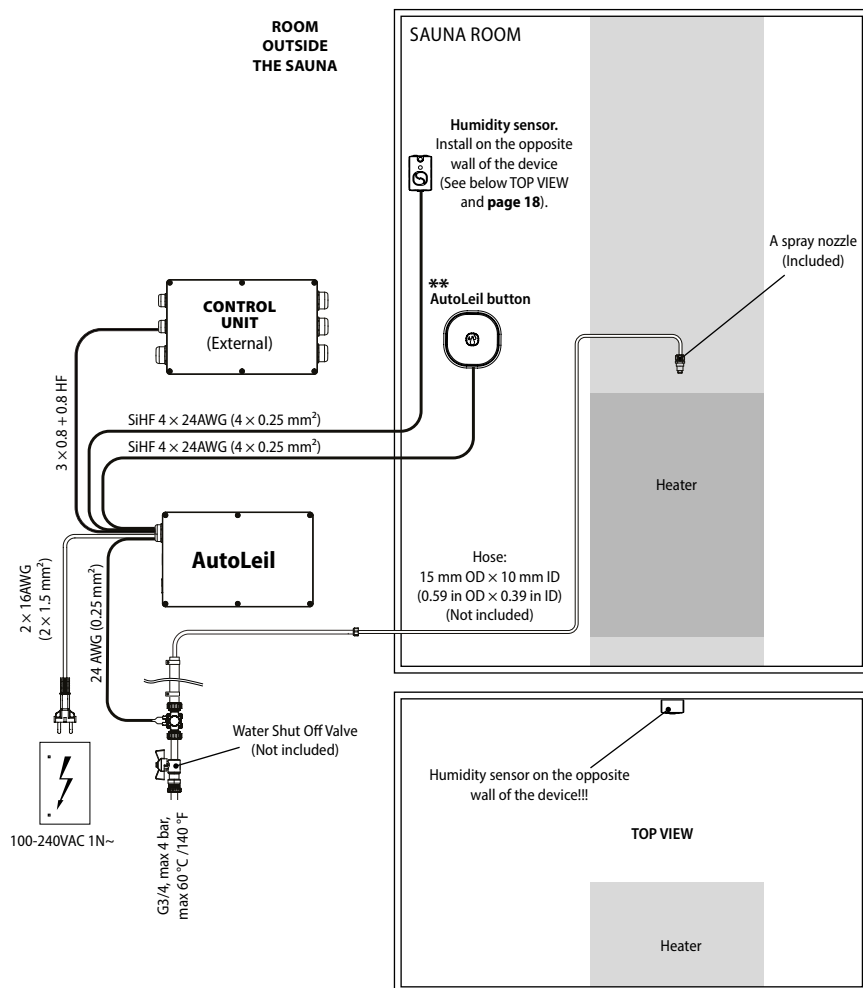
If the connection and installation cables are located higher than 100 cm / 3.3 ft from the floor of the sauna room or inside the walls of the sauna room, they must be able to withstand a temperature of at least 170 °C / 340 °F (e.g., SSJ).

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

RECOMMENDED CABLE SPECIFICATIONS

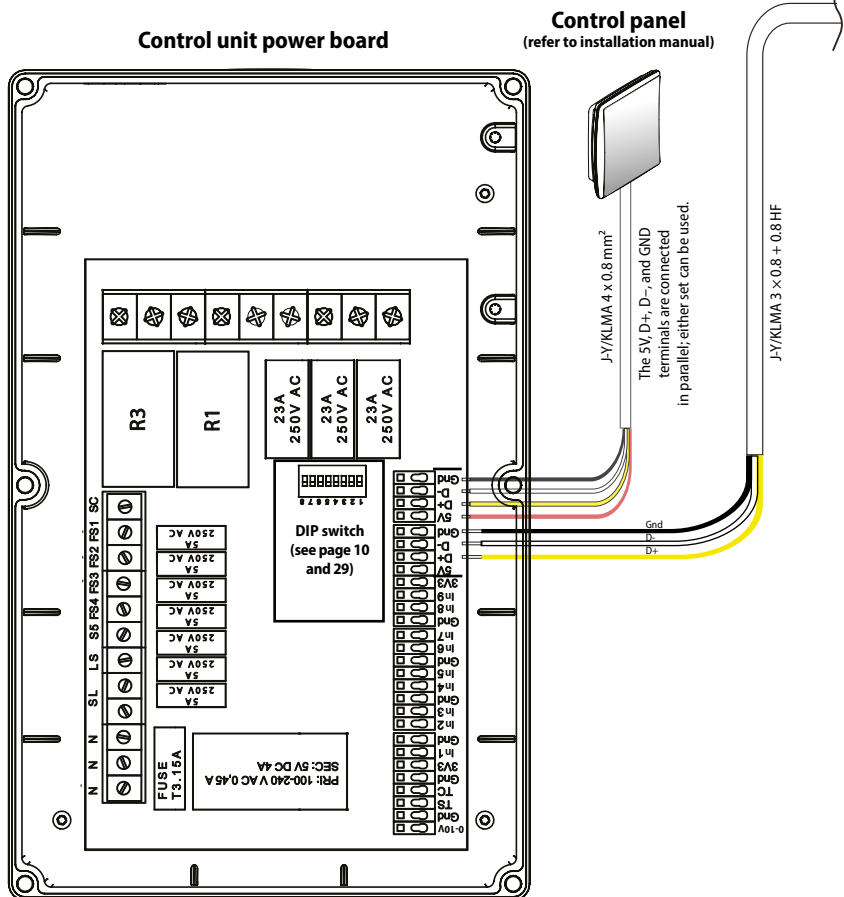
NOTE! If it is necessary to extend the provided cables, use cables with similar technical specifications.

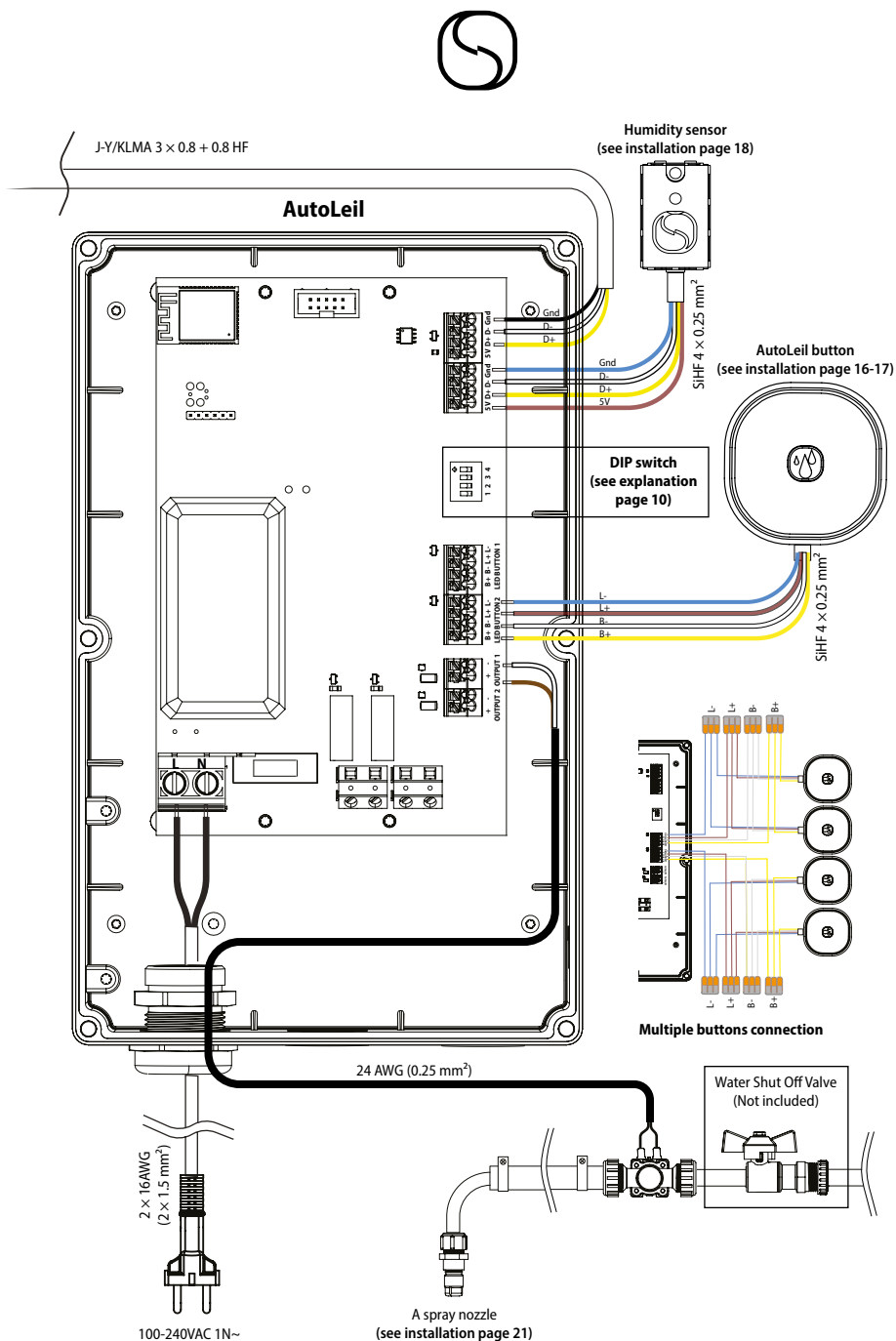
Autoleil button	SiHF temperature-resistant cable, 4 × 24AWG / 4 × 0.25 mm ²
Humidity sensor	SiHF temperature-resistant cable, 4 × 24AWG / 4 × 0.25 mm ²
Communication cable	J-Y/KLMA 3 × 0.8 + 0.8 HF
Water valve cable	2 × 24 AWG (2 × 0.25 mm ²)



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

** Possible to add up to 4 buttons.







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 AutoLeil main 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 PHYSICAL BUTTON

Install the physical button inside the sauna room, either on the wall or on the bench.

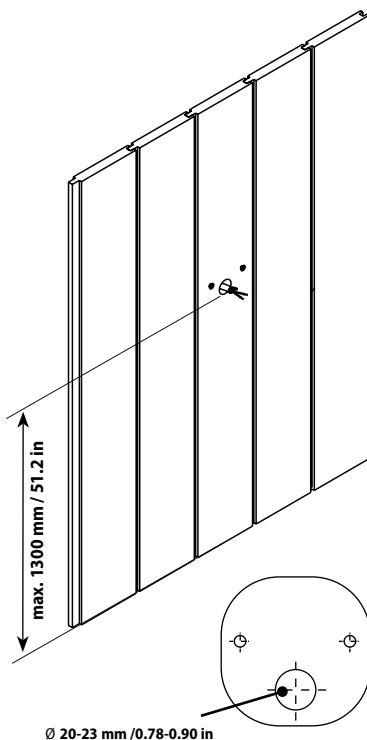
The button must be installed on the wall, in a place protected from water splashes.

Install it no higher than 1300 mm / 51.2 in above the floor and at least 500 mm / 19.7 in from the heater.

For concealed installation, route the data cable within the wall structure before finishing the wall. If concealed installation is not possible, install the cable on the wall surface.

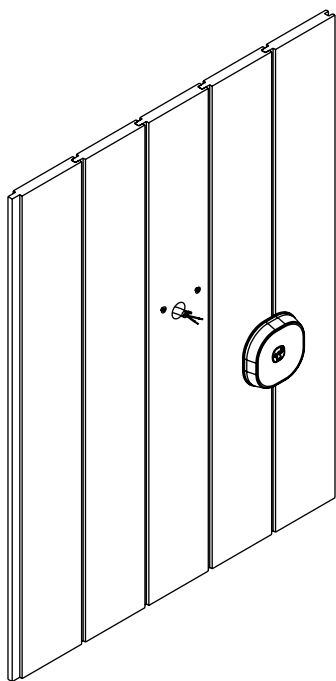
1. Use the printed template to mark the screw locations and the location of the $\varnothing 20\text{--}23\text{ mm}$ / 0.78–0.90 in opening required to accommodate the protruding connector on the back of the button.

For concealed cable installation, make an opening through the wall and route the cable through it. For surface-mounted cable installation, make a recess 5 mm / 0.2 in deep to accommodate the connector.

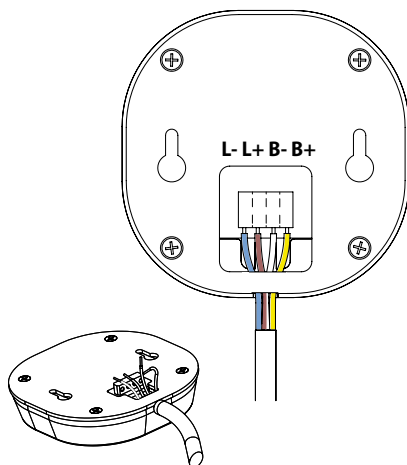




2. Install the screws, leaving the heads out 3-4 mm / 0.11-0.15 in from the wall. Drill the hole through the wall and bring the cable to the opening. Pull enough cable through the hole to connect the cable to the button connectors.



3. Route the wires through the groove in the wooden base and connect them to the button connector. Ensure that the wire colours match the terminal order on the AutoLeil main unit. See the electrical schematic on **page 15**.



4. Mount the button on the wall by aligning the screw heads with the keyhole slots in the metal mounting plate.

Up to four AutoLeil Buttons can be connected to an 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 AutoLeil main 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 backrest or similar. Otherwise the humidity readings will not be accurate.

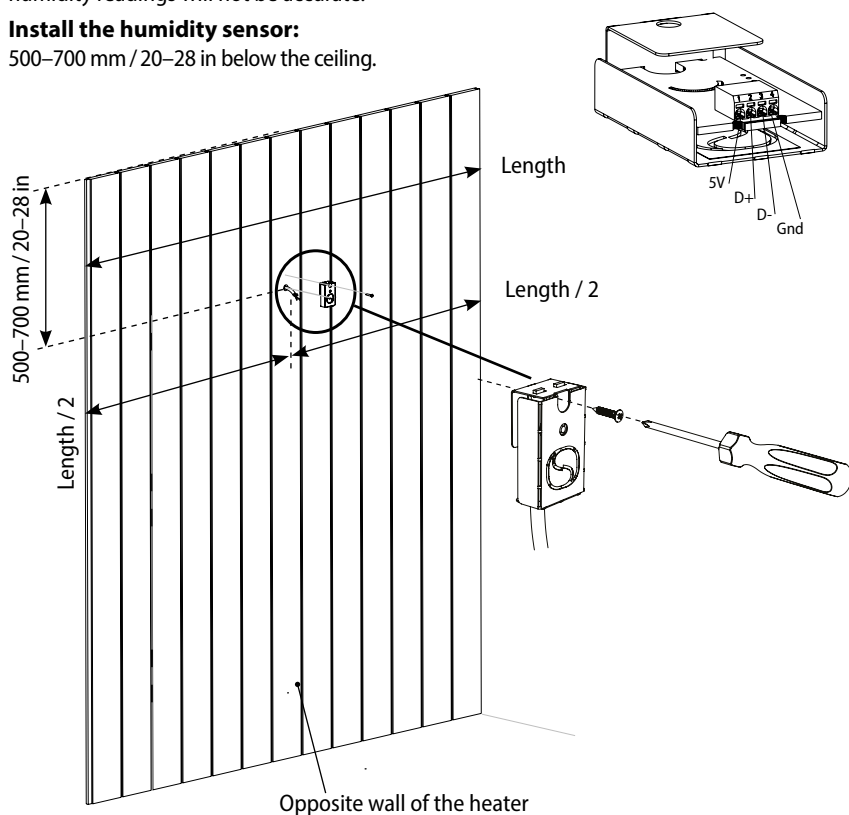
Install the humidity sensor:

500–700 mm / 20–28 in below the ceiling.

The sensor should be positioned approximately **halfway between the upper bench and the ceiling**. For public saunas, consult the distributor or manufacturer to determine the correct installation location.

The desired position is shown in the pictures below.

Connect the sensor with 4 × 24AWG / 4 × 0.25 mm² humidity sensor data cable (see **page 12-13**).



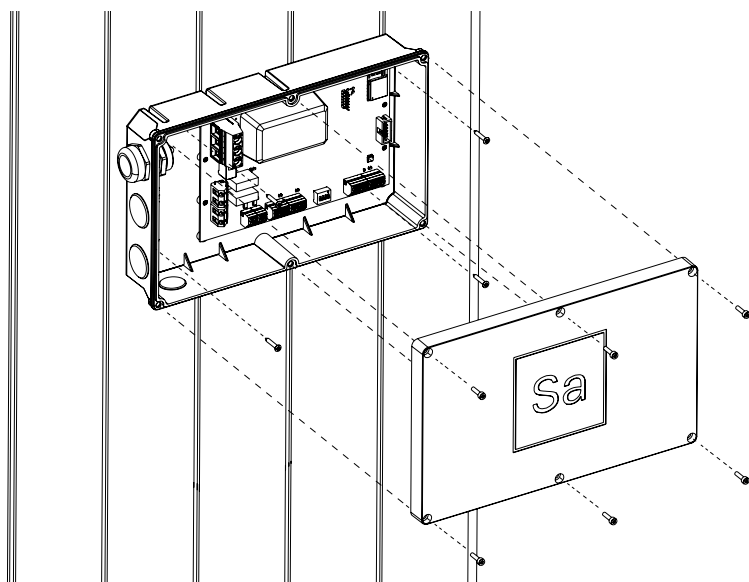


INSTALLING THE MAIN UNIT

Install the main unit in a dry space outside the sauna room and secure it to the wall. Complete the required electrical connections.

Install the water valve and water hoses/pipes in a location where the ambient temperature remains above 0 °C (32 °F) to prevent freezing. Install the water valve below the main unit to reduce the risk of water entering the electronics in the event of a leak. Complete the required water supply connections.

The AutoLeil main unit communicates with the Saunum control unit. Therefore, install the units close to each other where possible (**see page 13**). Connect them using the supplied 1.5 m (4.9 ft) data cable. See **pages 14–15** for information on the 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 outlet of the water pipe must be centered 150 – 300 mm /5.9 – 11.8 in above the stone basket stones.

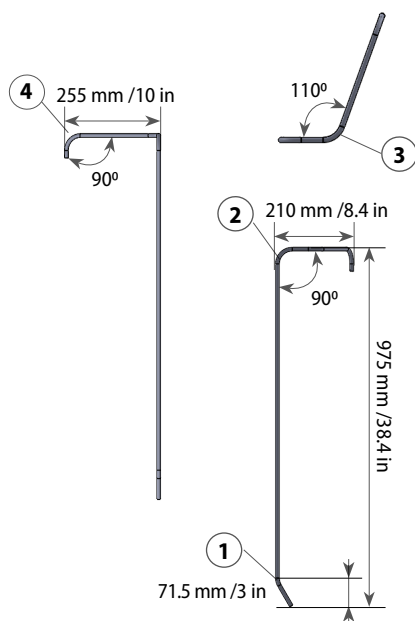
Exception: For Air Perfect, the water pipe may be placed directly on the stones.

A **pre-bent** stainless steel pipe designed for Saunum heaters can be **purchased separately**.

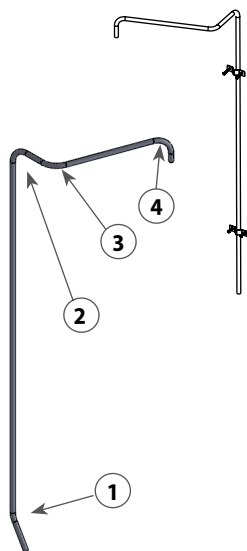
Alternatively, a suitable pipe can be bent on-site using a pipe bending tool.

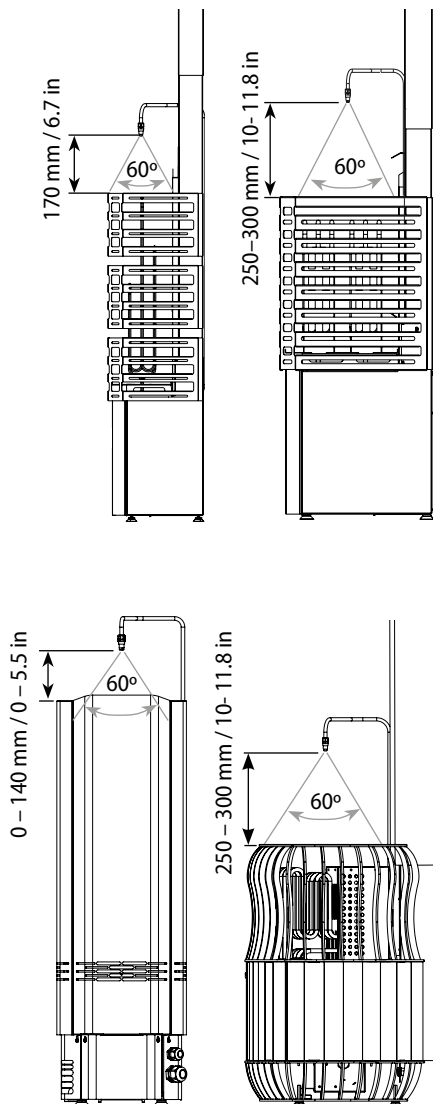
Secure the pipe to the wall directly next to the heater.

See the figure below for an installation example. We recommend using the spray nozzle supplied with the AutoLeil.



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.

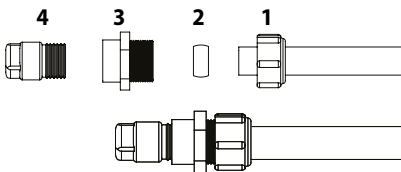
Tighten the cap nut (1) with a wrench. For a 10 mm / $\frac{3}{8}$ in copper pipe, tighten the nut by one full turn (360°). For a 10 mm / $\frac{3}{8}$ in stainless steel pipe, tighten it by three-quarters of a turn (270°).

NOTE! Do not use a pipe-wrench!

Finally, tighten the spray nozzle (4) (external thread G $\frac{1}{4}$) 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.





CONTROL PANEL

INDICATORS

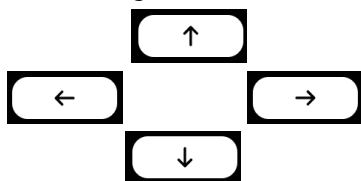
When an icon or text appears in **red**, it indicates that the user **can interact** with it. When it appears in **white**, it represents a **fixed value** that is **not interactive**.

Use the plus (+) and minus (-) buttons to increase or decrease the selected value.

Changes are saved using the **right arrow** at the top of the screen, while the **left arrow** discards the changes and returns to the previous screen.

The interface is designed to be intuitive and user-friendly, allowing quick and convenient navigation between settings.

Navigation buttons



Increase or decrease the selected value



Return without saving



OK / Confirm

UPDATE AUTOLEIL

AutoLeil settings will appear on the control panel **after** AutoLeil is connected to the Saunum control unit (see page 14-15). It is always a good idea to update AutoLeil to the latest version by opening the main menu and selecting Update (**Fig. 1**).

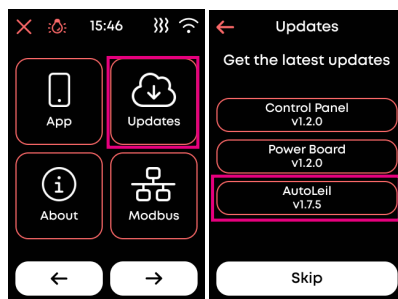
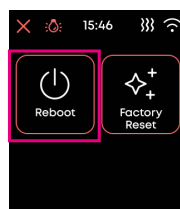


Figure 1

Figure 2



If the AutoLeil setting is not displayed, AutoLeil has not been recognised by the Saunum control unit. Return to the main menu and select Reboot. If the setting is still not displayed after the system restarts, switch off power to the entire system for 15 seconds and then switch it back on. If the problem persists, contact an authorised service centre.





CONFIGURE A SAUNA TYPE

To configure a personal preset sauna experience using the control panel, open the main menu (**Fig. 3**), select **Sauna Types**, and then select one of the available presets: **60 °C**, **75 °C**, or **90 °C** (**Fig. 4**).

Rename it if necessary, for example "My Sauna" (**Fig. 5**) tap the checkmark icon.

Set the desired sauna session parameters (**Fig. 6**): target temperature, fan speed and operating time, and sauna session duration. Then tap the right arrow to save the changes and proceed to the next settings.

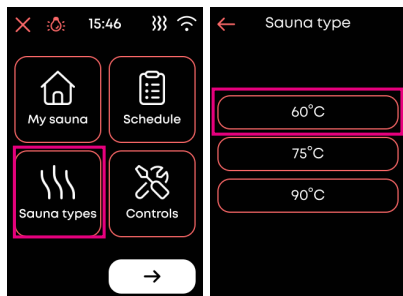


Figure 3

Figure 4

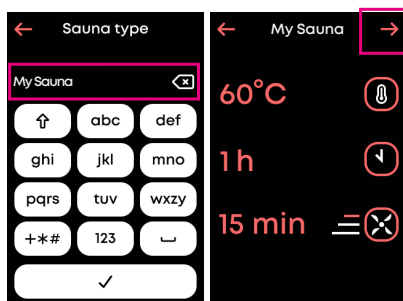


Figure 5

Figure 6

ABOUT AUTOLEIL

AutoLeil can dispense water **automatically** or when the **physical button** is pressed. AutoLeil becomes available when the sauna temperature reaches **55 °C /131 °F** and remains available until the temperature falls below **50 °C /122 °F**. Water dispensing is disabled below this temperature.

The two main AutoLeil settings screens (**Figs. 7 and 8**) allow you to set the operating time, mode, water quantity, mode preferences, and physical button settings.

By default, the AutoLeil **operating time** matches the **sauna session duration**, but it can be shortened if necessary.

For automatic water dispensing, select one of the following modes:

Humidity mode – water is dispensed according to the selected relative humidity level.

Interval mode – water is dispensed at the selected time interval.

To dispense water only by pressing the **physical button**, enable the button, set the desired button timeout, and leave **Ready mode** unchecked. The global minimum operating temperature still applies.

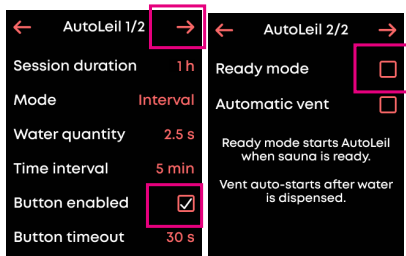


Figure 7

Figure 8



AUTOLEIL SETTINGS

WATER QUANTITY

The **Water quantity** setting determines how long the valve remains open during each water dispensing cycle. It can be set between 0.3 and 4 seconds (**Fig. 9**) and applies to both Humidity and Interval modes.

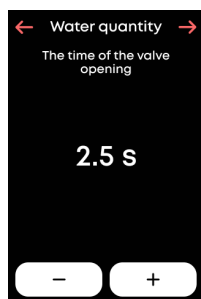


Figure 9

The actual quantity of water dispensed depends on the water pressure. With good water pressure, a setting of 2–4 seconds may dispense an excessive amount of water. We recommend starting with 0.5–0.8 seconds and adjusting the setting as needed.

To determine a suitable setting, place an empty container with a capacity of approximately 100 ml / 3.4 fl oz under the AutoLeil nozzle and press the physical button once. Adjust the **Water quantity** setting until the dispensed water approximately fills the container.

HUMIDITY MODE

Relative humidity - Set the desired relative humidity (RH) in the sauna room between 5% and 90% (**Fig. 11**).

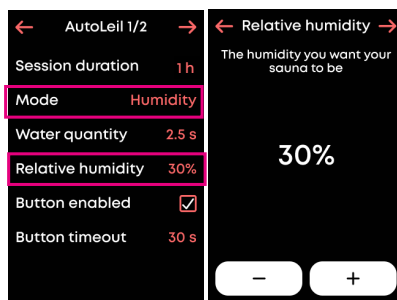


Figure 10

Figure 11

AutoLeil automatically controls water dispensing based on the humidity sensor readings to reach the desired humidity level and maintain it throughout the session.

The maximum RH depends on the set temperature. The combined value of the temperature in degrees Celsius and the relative humidity percentage must not exceed **130**. The approximate temperature and humidity limits are shown in **Figure 10**.

The defined quantity of water is dispensed at one-minute intervals until the target RH is reached. After that, water is dispensed only when the humidity falls 5 percentage points below the target value.



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 optimal dispensing parameters.

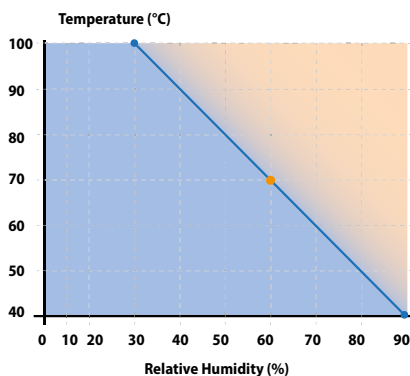


Figure 12

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

Examples: 70 °C /158 °F: max. 60% RH

100 °C /212 °F: max. 30% RH

The graph is for illustrative purposes only and shows how the temperature and relative humidity limit is calculated.

INTERVAL MODE

In Interval mode, set the time interval between water dispensing cycles from 1 to 10 minutes (**Fig. 14**). AutoLeil automatically dispenses the defined quantity of water at the selected interval throughout the session, for example every 5 minutes, regardless of the relative humidity level.

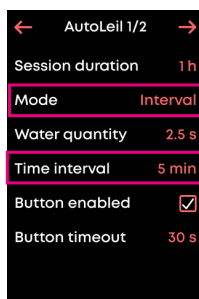


Figure 13

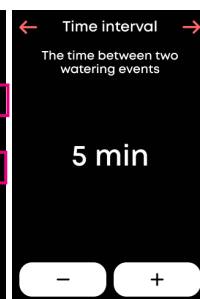


Figure 14



COMMON SETTINGS

Button enabled – Enable or disable the button used to dispense water.

Button timeout – Set the minimum time between two button activations from 5 seconds to 5 minutes (**Fig. 16**)

Duration – Set the AutoLeil session duration from a minimum of 0.5 h up to the full sauna session duration. The maximum is 12 h in private sauna mode and 18 h in public sauna mode. (**Fig. 17**).



Figure 15

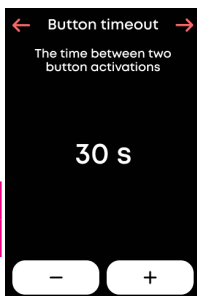


Figure 16

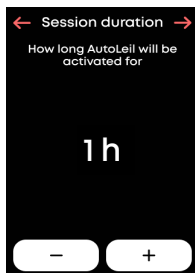


Figure 17

Tap the right arrow in the upper-right corner to save the selected settings and proceed to the next AutoLeil settings screen.

The next AutoLeil settings screen (**Fig. 18**) contains the synchronization settings for the sauna session and the recirculation fan.

Ready mode - Enables or disables AutoLeil interval and humidity automation once all preceding conditions have been met. The physical water button remains available regardless of the Ready mode selection, provided those conditions are still met. (**p 23**).

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. 23, 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.

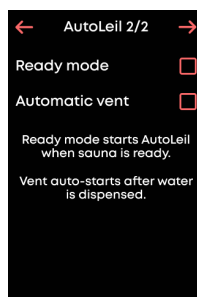


Figure 18

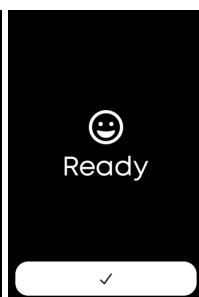
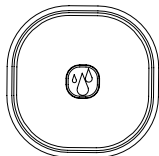


Figure 19



PHYSICAL BUTTON



The physical button is used to dispense the preset quantity of water onto the heater stones (**p. 24, Fig. 9**). The button must be enabled in the AutoLeil settings (**p. 26, Figs. 15**).

Short press – dispenses water.

Press and hold for 3 seconds – enables or disables **Ready mode**. After a successful long press, the LED displays a 7-second confirmation sequence: off–on–off–on–off.

LED INDICATIONS

Solid light – water dispensing using the button is available.

LED off – water dispensing using the button is unavailable.

Four flashes – water has been dispensed successfully.

Five rapid flashes – water dispensing is not permitted.

Water dispensing using the button becomes available when the sauna temperature reaches **55 °C / 131 °F**. Once activated, it remains available until the temperature falls below **50 °C / 122 °F**.

When the screen lock is active, a short press remains available, but a long press is disabled.

SAUNA SESSION

To start the sauna, select a pre-set sauna type, such as "My Sauna", from the main menu (**Fig. 20**).

The AutoLeil setting is shown in the bottom row. Depending on the selected mode, it is displayed as a relative humidity value ("%") in **Humidity mode** (**Fig. 10**) or as a time interval ("min") in **Interval mode** (**Fig. 13**). Tap the displayed value to adjust the corresponding AutoLeil settings.

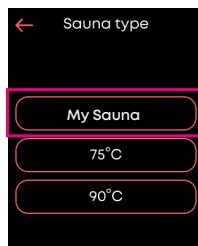


Figure 20

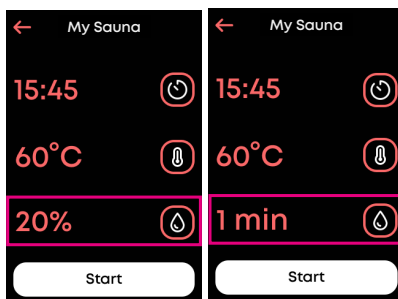


Figure 21

Figure 22



If the AutoLeil settings are not displayed, follow the instructions on **page 22**.



During heating, the AutoLeil controls are not displayed (**Fig. 23**), but the **physical button** can be used once **55 °C / 131 °F** is reached. The AutoLeil controls become available once the sauna is ready (**Fig. 24**).

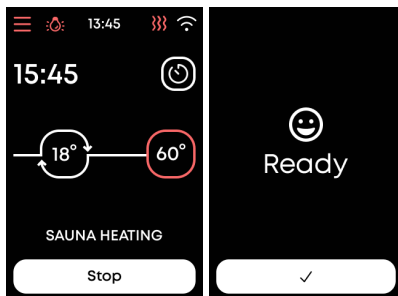


Figure 23

Figure 24

The current relative humidity is displayed at **(A)**. Tap the value to open and adjust all AutoLeil settings (**pp. 24–26**).

Tap the droplet icon **(B)** to switch automatic water dispensing ON or OFF. The icon blinks continuously whilst the automation is active.

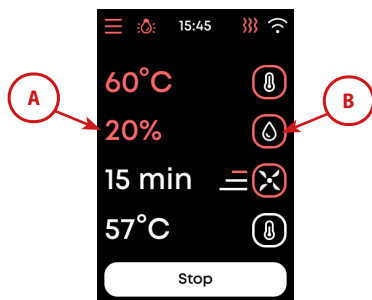


Figure 25

AUTOLEIL DURING COOLING

This screen appears after the sauna session ends and shows the current temperature inside the sauna as it decreases **Fig. 26**.

During the cooling phase, the AutoLeil physical button remains active, allowing you to dispense water manually until **1h** has elapsed or the sauna temperature falls below **50 °C / 122 °F**.

If **Automatic Vent** is enabled (**p. 26, Fig. 18**), the fan also switches on automatically whenever water is dispensed during the cooling phase.



Figure 26



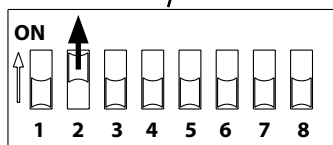
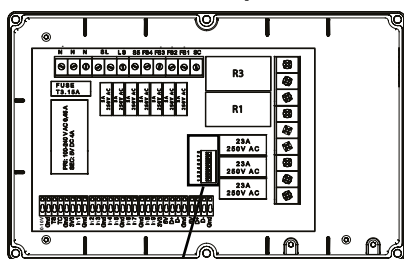
PUBLIC SAUNA

The AutoLeil duration can be set from 0.5 h up to the full sauna session duration, with a maximum of 12 h in private sauna mode or 18 h in public sauna mode. In order to set up the system for longer use, a manual switch needs to be made on the "Power board" (inside the control unit box).

Not to be confused with AutoLeil main unit!

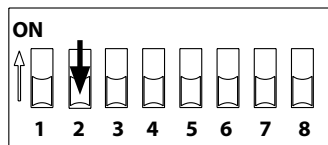
- Open the cover on the Saunum control unit (secured with 6 screws).
- Set red DIP switch No. 2 on the power board to the ON position (**Fig.27**).

Saunum Control Unit power board



Switch **ON** nr 2

Figure 27



Switch **OFF** nr 2

Figure 28

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 (**Page 26, Fig. 18**).

In public sauna mode, the fan 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 fan timing should be **2–3 minutes**.

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

Default settings can be restored **ONLY** if the red dip switch on the control unit power board is returned to its original position (**Fig.28**).



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 product when used in a private sauna is two (2) years.
4. The warranty period for product used in public saunas is one (1) year.

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. Saunum will not cover labor costs.

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.



INSTALLATION **REPORT**

INSTALLATION **REPORT**

Date of purchase: _____ Date of installation: _____

Heater model: _____

Installed by: _____

Checked by: _____

Date and signature: _____

Description of the work performed:

The components are complete and free from visible damage _____

Component	Installed correctly	Connections / leaks checked	Operation tested
AutoLeil main unit			
Physical button			
Humidity sensor			
Piping			
Water valve			
Spray nozzle			
Electrical and data cables			

AutoLeil is recognised by the control unit: _____

Notes: _____

Customer's contact details: _____

Installation accepted by: _____

Warranty start date: _____

For installation, maintenance and technical support:

Global support: support@saunum.com; phone: +372 5562 7707

North America: techsupport@bathingbrands.com; phone: +1 (224) 253-5909

General enquiries: info@saunum.com; phone: +372 5197 5074; www.saunum.com

Manufacturer: Saunum Saunas North America LTD
Suur-Paala 19,
11415 Tallinn, Estonia

declares that the product:

Saunum Automatic Water Dispensing Unit AutoLeil

complies with the requirements of the following standards:

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)