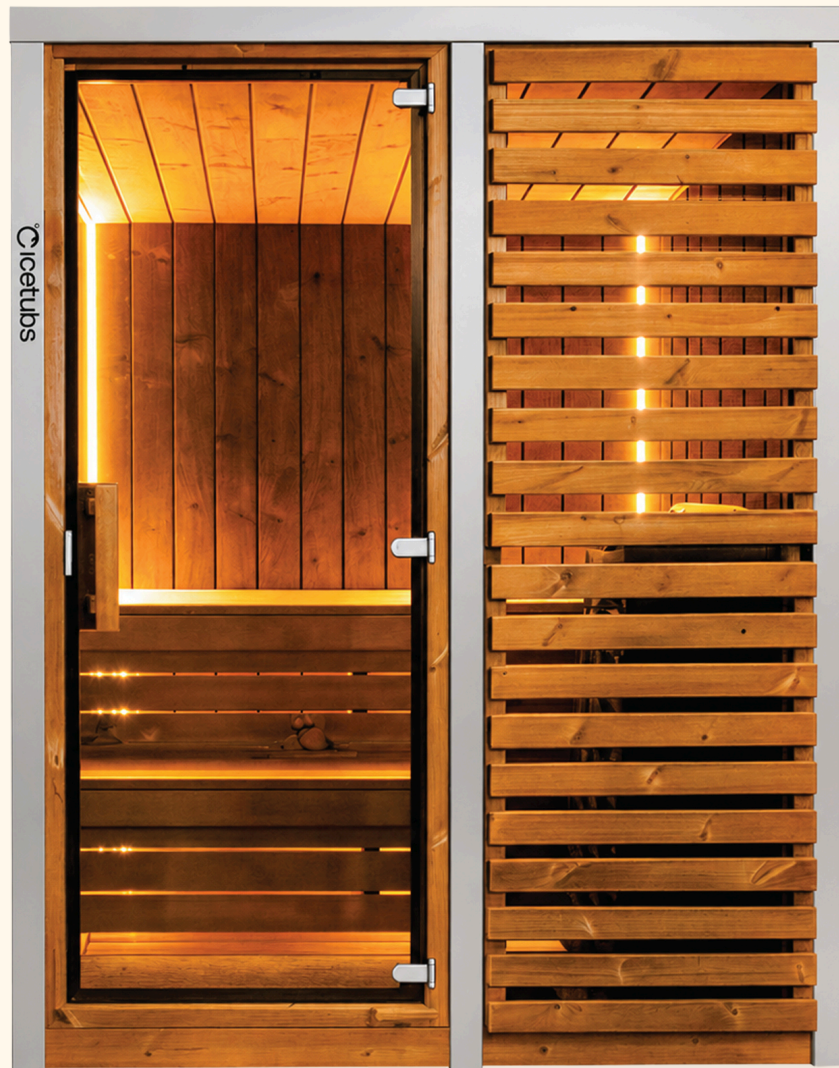




Operational Manual

Sauna



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This manual applies to the Icetubs Sauna
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1 Introduction

1.1 Purpose of This Manual

This manual is here to support you in getting the most out of your sauna. It is written for everyone who works with the system or uses it at home. Inside, you'll find clear guidance for every stage: from deciding on the right setup, to installation, daily use, and long-term care. We explain what you need for installation, how to choose the best location, and how to keep the sauna in good condition.

Each component, including the heater, is described in simple, practical terms. Our aim is that you feel confident using, maintaining, and caring for your sauna.

The goal of this manual is to give you the knowledge to use your sauna safely, effectively, and with long-lasting satisfaction, whether at home or in a light-use professional environment.

1.2 Importance of Reading the Manual

This manual is an essential part of your sauna experience. Taking the time to read it carefully ensures proper installation, safe use, and long-term performance. Incorrect installation or misuse can lead to damage, unsafe situations, and loss of warranty. Beyond installation, this manual shows you how to use and care for your sauna correctly. Proper use and maintenance keep the system in optimal condition and help extend its lifespan.

In essence this manual helps you avoid mistakes, protect your sauna, and enjoy it safely and confidently for years to come.

Product Overview

2.1 Product Description

The Icetubs Sauna is a finnish-style electric sauna designed for private and light professional use. It combines a prefab wooden cabin with a 9 kW Harvia or HUUM electric heater, giving you traditional dry sauna heat with the steam quality of a rock heater. The sauna is supplied as a self-build kit delivered to your door and assembled on-site, without the need for complex installation work.

Two heater options are available. The client chooses one at the time of ordering.

2.1.1 Heater options

Harvia Cilindro 9 kW A floor-standing stainless steel heater with a large stone capacity. Operated with a mechanical timer and thermostat knob built into the heater base. Straightforward, reliable, and does not require a control panel on the wall.

HUUM Steel 9 kW A floor-standing heater with a slim steel shell and generous stone volume. Operated through the UKU Glass control panel mounted outside the sauna. Optional WiFi connection lets you preheat the sauna from the HUUM mobile app. A good choice for users who want to arrive at a ready sauna.

Both heaters are 9 kW and fit the sauna room volume. The main difference is the control experience: mechanical and immediate with Harvia, digital and remote-capable with HUUM.

2.1.2 Capacity

The sauna fits 4 to 5 users at the same time. It is sized for regular private use and light professional settings, such as small wellness studios, gyms, or hotel rooms with limited daily use.

2.1.3 Applications

The sauna is designed for controlled heat exposure in residential environments and light professional settings. It supports a range of wellness and relaxation uses when operated according to the instructions and safety guidelines in this manual.

Residential use Intended for private, non-commercial use at home. Suitable for indoor or outdoor installation where appropriate electrical supply and ventilation are available.

Sports, fitness, and physical recovery Used by athletes and active individuals as part of recovery routines. Typical applications include heat exposure after training to support muscle relaxation and recovery.

Wellness and heat exposure Can be used for personal wellness practices involving controlled heat exposure. Supports relaxation, circulation, and general well-being based on individual tolerance and experience.

Contrast therapy Can be combined with cold exposure (for example an Icetub or cold shower) as part of a contrast therapy routine. The user is responsible for choosing appropriate exposure times and temperatures based on personal condition.

Intended user profile For adults in good general health who are familiar with sauna use or who introduce heat exposure gradually. Users with underlying medical conditions should consult a qualified healthcare professional before use.

Non-medical use This product is not a medical device. It is not intended to diagnose, treat, cure, or prevent any disease or medical condition.

2.1.4 Key features

Heating performance Both the Harvia and HUUM heaters deliver 9 kW of output and reach a working sauna temperature of 80 to 90°C. Heat-up time to this temperature is approximately one hour in standard conditions. A redesigned ventilation layout improves heat distribution and reduces heat-up time compared to earlier Icetubs saunas.

Smart control (HUUM option) With the HUUM heater and UKU Glass panel, the sauna can be connected to WiFi and controlled through the HUUM mobile app. You can set the target temperature, schedule a heating session, and check the status from anywhere. The safety confirmation on the panel makes sure the sauna cannot be started remotely without someone first checking it is safe to heat.

Airflow and ventilation The sauna includes dedicated supply and exhaust vents sized for the cabin volume. Good airflow is essential for even heat, safe wood temperatures, and proper drying after use. Drying the sauna after each session extends the life of the wood and stones.

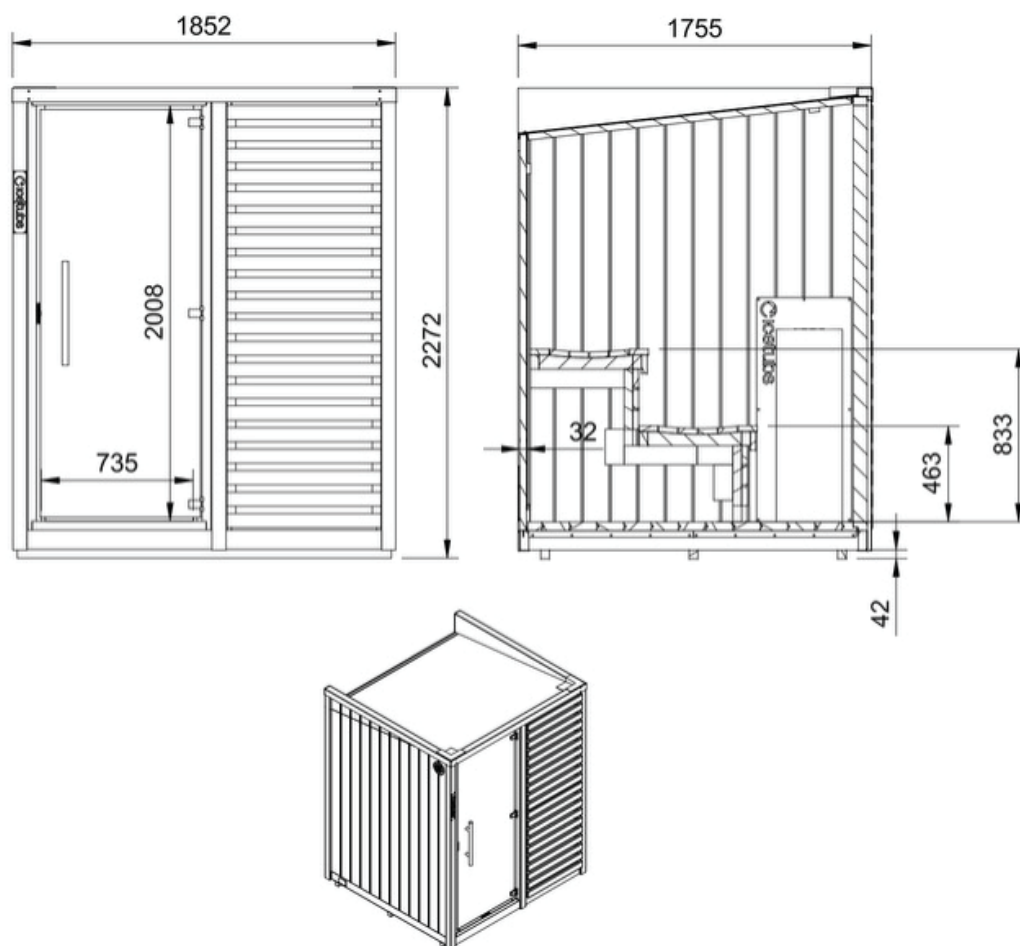
Comfort and interior design Curved ergonomic benches, a clean interior layout, and careful dimensions make the cabin comfortable for longer sessions and easier to move around in. The entrance step is branded with the Icetubs logo. The door uses a stainless steel handle that stays cool to the touch.

Exterior and materials The exterior is clad in ThermoWood, a heat-treated softwood selected for its dimensional stability, moisture resistance, and natural look. ThermoWood keeps its shape outdoors through temperature and humidity cycles and develops a mature colour over time.

Configurations The sauna is offered in different exterior finishes and heater options so the look and control style can match the installation environment.

Self-build assembly Delivered as a prefab kit. Final assembly is done on-site without specialised installation equipment. Installation of the heater itself must be done by a certified electrician. Full assembly and installation steps are covered in Chapter 5.

2.2 Technical Specifications Sauna - Harvia



Parameter	Value
Height (mm)	2272
Length (mm)	1755
Width (mm)	1852
Seating height - First row (mm)	463
Seating height - Second row (mm)	831
Weight - empty (kg)	500
Weight - incl. packaging (kg)	550

2.2.1 Dimensions

- Length: approx. 1755 mm
- Width: approx. 1852 mm
- Height: approx. 2272 mm

2.2.2 Weight

- Empty weight: approx. 500 kg (unit only).
- Weight including 5 persons of 80 kg: approx. 900 kg total load.
- Distributed pressure: 277 kg per m² on the floor surface.

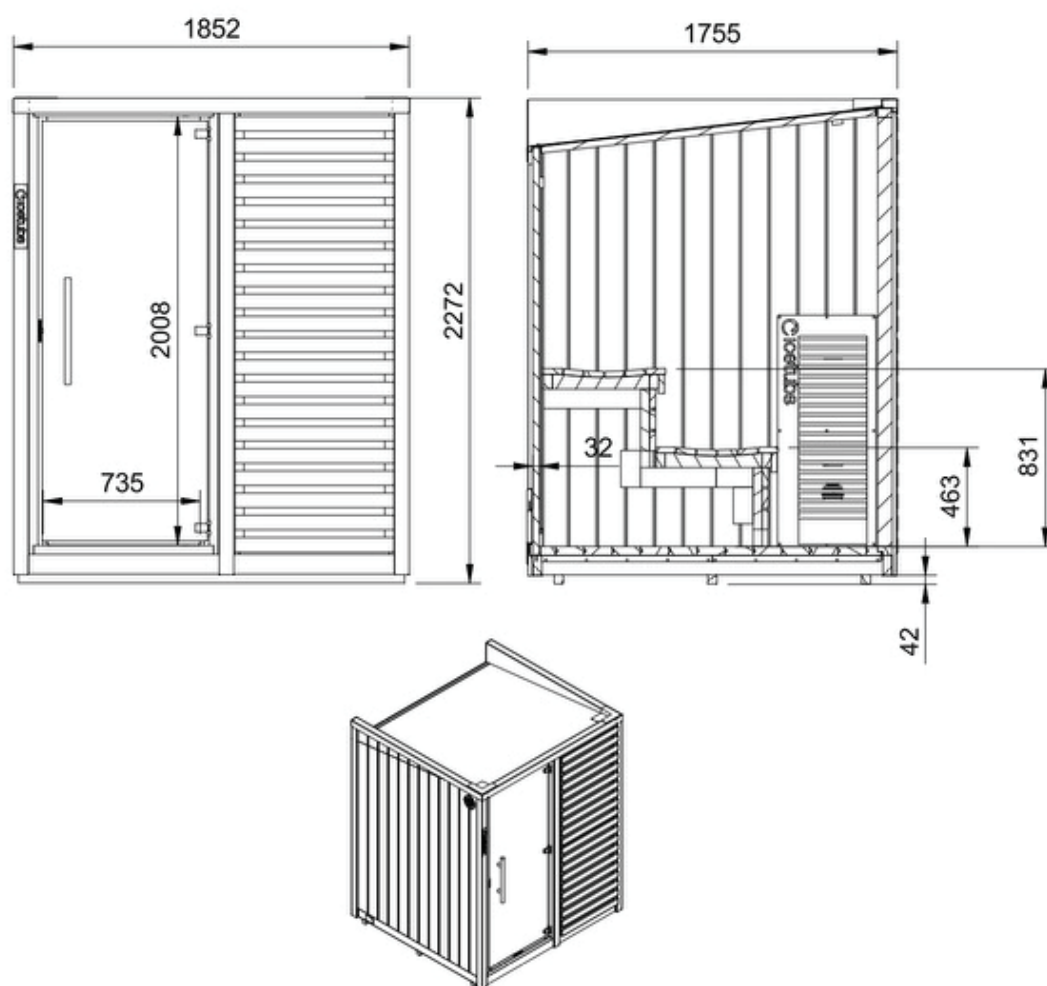
2.2.3 Capacity

- Suitable for 4-5 users.

2.2.4 Heating stones

- The Harvia heater includes 80 kg of heating stones.

2.3 Technical Specifications Sauna - HUUM



Parameter	Value
Height (mm)	2272
Length (mm)	1755
Width (mm)	1852
Seating height - First row (mm)	463
Seating height - Second row (mm)	831
Weight - empty (kg)	580
Weight - incl. packaging (kg)	630

2.3.1 Dimensions

- Length: approx. 1755 mm
- Width: approx. 1852 mm
- Height: approx. 2272 mm

2.3.2 Weight

- Empty weight: approx. 580 kg (unit only).
- Weight including 5 persons of 80 kg: approx. 980 kg total load.
- Distributed pressure: 302 kg per m² on the floor surface.

2.3.3 Capacity

- Suitable for 4-5 users.

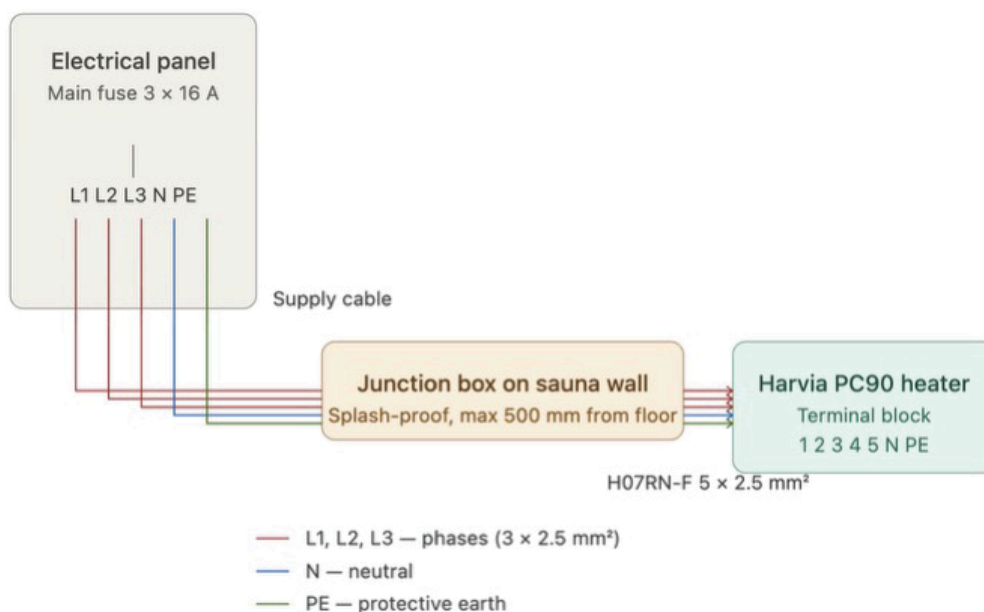
2.3.4 Heating stones

- The HUUM heater includes 150 kg of heating stones.

2.4 Electrical Diagrams

2.4.1 Harvia heater

Electrical connection — Harvia Cilindro PC90, 9 kW
400 V 3N~ / 50 Hz — installation by certified electrician only

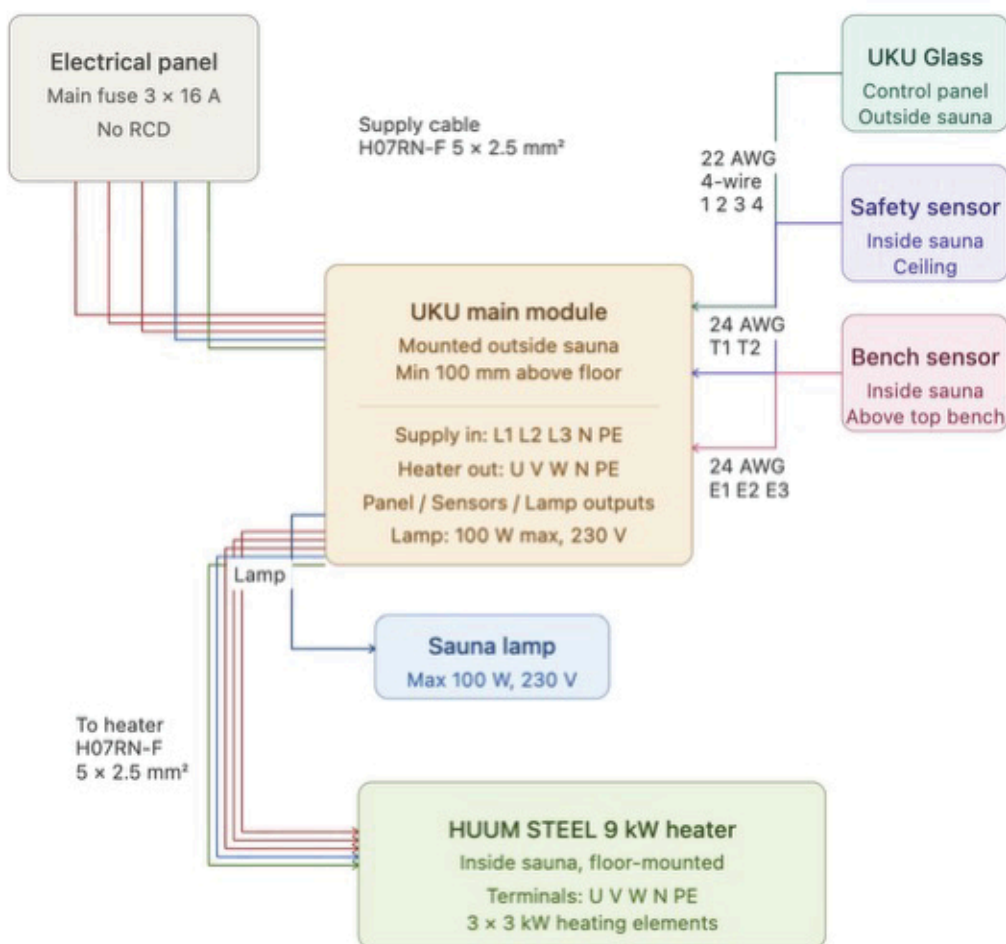


Important

Cable type: H07RN-F (rubber insulated) or equivalent. PVC-insulated cable is forbidden.
Fuse: 3 x 16 A. Connection cable: 5 x 2.5 mm².
Junction box: splash-proof, maximum height 500 mm from floor.
Installation must follow national electrical regulations.

2.4.2 HUUM heater

Electrical connection — HUUM STEEL 9 kW with UKU Glass
400 V 3N~ / 50 Hz — installation by certified electrician only



Important

Cable type: HORN-F or SIHF-JB. PVC-insulated cable is forbidden.
Do not connect through an RCD. Supply wire must be 90°C copper.
All wiring must comply with national electrical regulations and EN 60335-2-53.

Pre- Conditions for Safe Installation

Before placing and connecting your Sauna, make sure all conditions below are met. This chapter covers electrical requirements, surface requirements, and environmental considerations. Some steps require a certified electrician.

3.1 Electrical Requirements

The sauna requires two separate power connections: one for the heater and one for the lighting. Both cables exit from the bottom rear of the sauna.

We strongly recommend having all electrical connections made by a certified electrician.

3.1.1 Heater power connection

We supply a red power cable with a 3-meter cable, exiting from the bottom rear of the sauna. You need to arrange the correct socket near the sauna location before installation.

Required socket type: CEE 16A, 5-pin, 6H, 400V, IP44

Fuse box requirements:

- 3-phase (recommended): 3 x 16 amp fuse

Cable from fuse box to socket:

- Less than 25 meters: 5 x 2.5 mm²
- More than 25 meters: 5 x 4 mm²

3.1.2 Heater connection inside the sauna

Inside the sauna, there is a loose cable coming from the floor. This cable must be connected to the heater by a qualified electrician. An installation manual from the heater manufacturer is included in the heater's box.

Technical reference for electricians:

Specification	Detail
Heater options	Harvia Cilindro 9 kW or HUUM Steel 9 kW
Power	9 kW
Fuses required	3 x 16 amp
Cable type	5 x 2.5 mm ² or 5 x 4 mm ²
Socket type	CEE 16A, 5-pin, 6H, 400V, IP44
Weight - empty (kg)	580
Weight - incl. packaging (kg)	630

The heater installation manual (Harvia or HUUM, depending on the model supplied) is included in the heater box. Your electrician should follow that manual for the internal connection.

3.1.3 Lighting connection

If your sauna is equipped with the Harvia heater: you need to arrange a standard outdoor 230V power socket. The socket must be placed no more than 2 meters behind the rear of the sauna. Plug in the cable, and the lighting is ready to use.

If your sauna is equipped with the HUUM heater: no separate 230V socket is required for the lighting. The lighting is powered through the HUUM control unit, which is already integrated into the sauna. Just connect the main power supply as described in section 3.1.1.

3.2 Clearance Around the Sauna

Keep at least 50 cm of clear space on all sides of the sauna. This space is needed during installation and for future maintenance.

Insufficient clearance can make it impossible to carry out maintenance safely and may cause damage to surrounding structures over time.

3.3 Surface Requirements

The sauna must be placed on a stable, level, and dry surface. Do not place the sauna on dirt, grass, or synthetic turf. These surfaces retain moisture, which causes the wood to absorb water and deteriorate faster.

The Sauna is heavy. Make sure the surface can structurally support the full weight of the sauna before placement. If you are unsure, consult a structural engineer or contractor.

Suitable surfaces include:

- Paved terrace or concrete slab - Most common and recommended. Stable, easy to maintain, comfortable to step on.
- Tiles placed under the base frame - The sauna rests on a beam frame. Placing solid tiles under the beams gives a stable base while keeping the rest of the garden open.
- Solid wooden deck - Suitable if the deck has a proper load-bearing structure. Requires slightly more maintenance but gives a clean finish.
- Honeycomb mats with gravel - A durable option. The mats prevent sinking and the gravel provides drainage.

All surfaces must meet three basic requirements:

1. Stable - The surface must support the weight of the sauna long-term without settling or shifting.
2. Level - An uneven surface causes problems during installation and can damage the structure over time.
3. Dry - A wet or moisture-retaining surface accelerates wood deterioration and increases maintenance needs.

3.4 Environmental Considerations

3.4.1 Chlorinated environments

Do not place the sauna directly next to a chlorinated swimming pool. Chlorine in the air can corrode steel components over time, leading to pitting and rust.

If placement near a pool is unavoidable, contact us to discuss mitigation options before installation.

3.4.2 Coastal or salt air environments

If the sauna is placed within 20 km of the sea, regularly rinse all steel components with fresh water. Salt carried in the air will accumulate on steel surfaces and cause corrosion if not removed. Saunas placed within 20 km of the sea are excluded from warranty on stainless steel parts.

We recommend rinsing steel parts at least once a month in coastal environments, or more frequently in exposed locations with strong sea winds.

Conditions for Safe Usage

Before using the sauna, make sure the following conditions are met. These rules apply to every use, not just the first installation. Following them protects the users, the product, and the warranty.

4.1 General Safety Rules

- Ensure the floor can support the full weight of the sauna in use. Approximately 900 kg for the Sauna - Harvia and approximately 1050 kg for the Sauna - HUUM (weight includes 5 persons of 80kg).
- Install the sauna on a stable, flat, and level surface.
- Keep the sauna room door closed during heating and use. Doors must always open outwards.
- Do not store objects on, above, or near the heater. This causes a fire hazard.
- Do not cover the heater at any time. Covering the heater causes a fire hazard.
- Never touch the heater or stones while the heater is powered on or still hot. Hot surfaces cause burns.
- Check the stones every 6 months. Remove broken pieces and replace them if needed.
- Do not place the sauna directly on dirt, grass, or synthetic grass. Use a concrete slab, wooden deck, or another surface that does not hold moisture. Long term moisture will damage the wood.
- Do not place the sauna near a chlorinated pool. Chlorine in the air can corrode the steel components of the heater and cause rust over time.
- If the sauna is placed outside within 20 km of the sea, rinse the exterior with fresh water regularly to prevent salt corrosion.
- Use the sauna only for its intended purpose. Do not use it as a drying room for clothes or textiles.

4.2 Electrical Safety

- The heater must be connected to a properly grounded electrical circuit that meets national regulations.
- A certified electrician is strongly recommended for the heater installation. Incorrect wiring is a safety risk and voids the warranty.
- Check that the supply voltage, amperage, and main fuse match the heater specifications before installation.
- Keep all electrical components dry. Water must not reach the connection box, control panel, or power cable.
- Do not operate the heater with wet hands.
- Inspect the power cable and connections regularly. Do not use the sauna if any wiring is damaged.
- Turn off the main power supply during thunderstorms to prevent damage.
- For outdoor installations, protect the control panel and junction box from rain and direct water exposure.

4.3 Misuse Hazards & Prevention

- Do not turn on the heater without stones, or with too few stones. This causes overheating and fire hazard.
- Do not pour undiluted sauna essences or oils directly onto the stones. They can ignite. Only add them to the water used for steam.
- Do not use a water hose to create steam. Use only a ladle and tap water.
- Do not cover the heater with towels, clothing, or any other object.
- Do not modify the heater or open its housing. This voids the warranty and creates a safety risk.
- Do not install more than one heater in the sauna room.
- Do not place flammable materials inside the minimum safety distances defined in the heater manual.
- Do not use the sauna if the wood shows signs of heat damage, charring, or discoloration near the heater. Stop use and inspect.

4.4 Key Safety Warnings

Do's

- Read this manual and the original heater manual (Harvia or HUUM) before first use.
- Check the sauna room and heater visually before every session. Make sure nothing has been placed on or near the heater.
- Confirm the stones are correctly placed and cover the heating elements fully.
- Verify the set temperature on the control panel before entering.
- Make sure the entry area is dry and stable.
- Supervise first time users and explain safe entry, exit, and duration.
- Close the top air vent before each session. Open it after each session to let the sauna dry.

Don'ts

- Do not touch the heater or stones during or shortly after a session.
- Do not allow children to use the sauna without adult supervision.
- Do not leave small children unattended near the sauna.
- Do not enter the sauna under the influence of alcohol, medication, or drugs that affect alertness or body temperature regulation.
- Do not sleep inside a heated sauna.
- Do not use the sauna for drying clothes or storing materials.
- Do not operate the heater if the stones are missing, broken, or incorrectly placed.

Installation

5.1 Overall Information

The Sauna arrives as a prefabricated kit, delivered to your door or to the nearest accessible point for a delivery truck. Final assembly is your responsibility and is straightforward with the right preparation.

Before you start, make sure all pre-conditions from Chapter 3 are met. The surface must be ready and the electrical supply must be in place before assembly begins.

5.1.1 What to expect from the package

The sauna ships on a pallet with dimensions of **225 Length x 100 Width x 214 height** and weighs approximately **550 kg (with Harvia heater) or 700 kg (with HUUM heater)**. Check your access route in advance: doorways, gates, and passages must be wide enough to move the pallet through.

The largest individual component measures **186 cm x 173 cm x 29 cm; this is the sauna roof**. Keep this in mind when planning your route from delivery point to installation location.

There is no difference in package size between the Harvia and HUUM heater variants. Both arrive in the same outer packaging. The sauna package must be stored under cover if it is not unpacked immediately after delivery. Do not leave the package exposed to rain or moisture.

5.1.2 Before you start assembling

- Confirm that the surface is level, stable, and dry (see section 3.3).
- Confirm that the electrical supply is ready (see section 3.1).
- Plan the assembly at a time when you have enough time, help, and space available. Do not start if you cannot complete at least the roof placement in the same session.
- Do not assemble the sauna in the rain/snow

5.1.3 People and tools required

The assembly requires at least 2 people. For placing the roof, 4 people are needed. The roof weighs approximately 60 kg and must be lifted overhead.

Tools required:

- Rubber mallet
- Cordless screwdriver (advised)
- Basic tool set (Cross-head and flat-head screwdrivers in various sizes)
- Work gloves

Skill level: moderate. If you can assemble a fitted wardrobe with integrated lighting, you can assemble this sauna. No specialist skills are required, but accuracy and patience matter.

5.1.4 Time required

Allow approximately **4 hours** for assembly, assuming the sauna has been unpacked and all pre-conditions are met.

5.1.5 Electrical connection

We strongly recommend having the heater connected by a certified electrician. See section 3.1 for full electrical requirements.

5.1.6 Disassembly

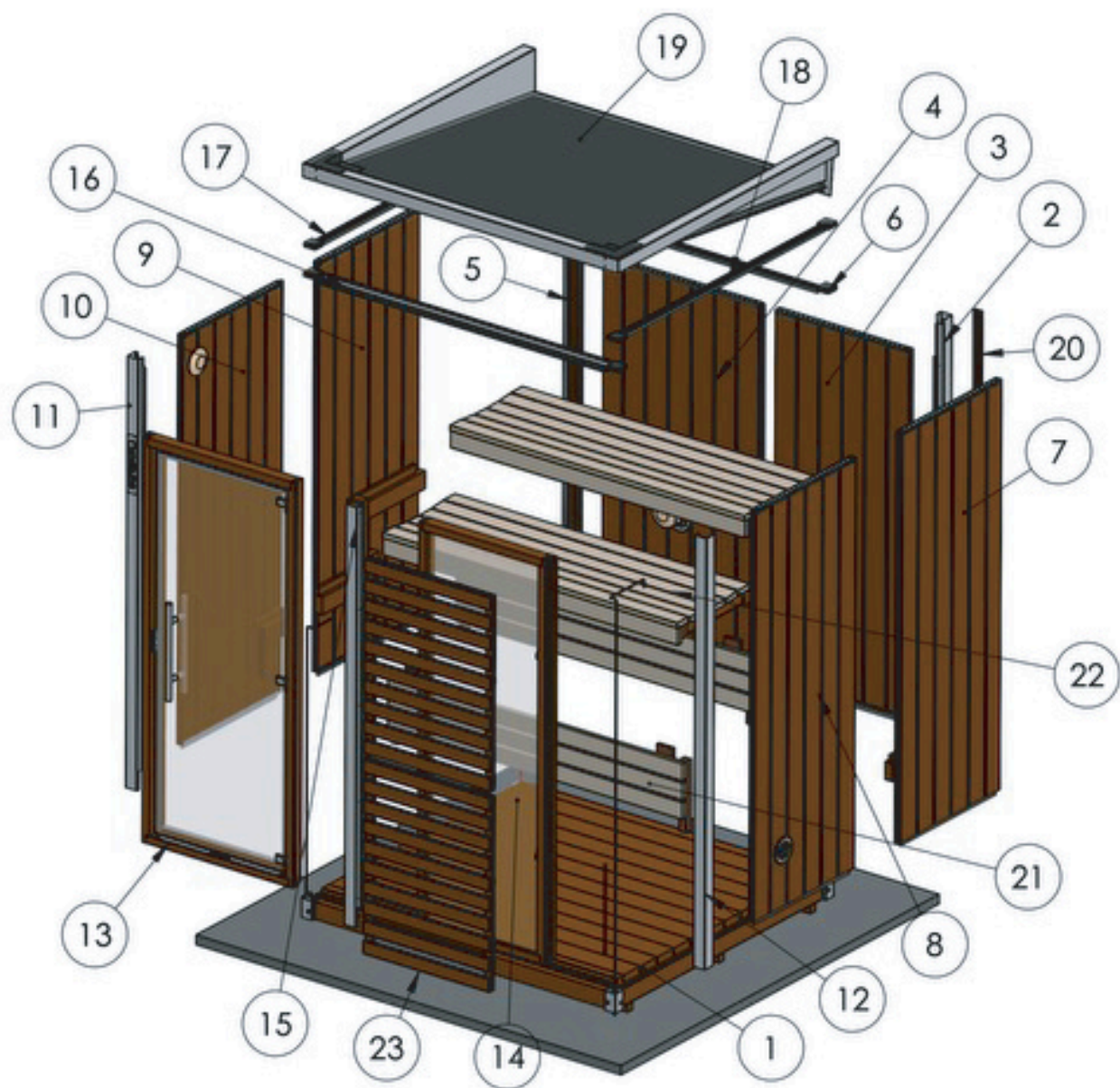
The sauna can be disassembled, but this is not recommended. Over time, the natural movement of wood makes it increasingly difficult to fit parts back together properly.

5.1.6 Part list

The sauna consists of 23 numbered components. Quantities match the stickers on the parts. In this part list, the parts for the Harvia or HUUM heater are excluded.

No	Specification	Detail
1	Sauna floor module	1
2	Back right column	1
3	Back wall module A	1
4	Back wall module B	1
5	Back left column	1
6	Back wall bracket	1
7	Right wall module A	1
8	Right wall module B	1
9	Left wall module A	1
10	Left wall module B	1
11	Front left column	1
12	Front right column	1

No	Specification	Detail
13	Door module	1
14	Side glass module	1
15	Center column	1
16	Front wall bracket	1
17	Side wall bracket L	1
18	Side wall bracket R	1
19	Roof module	1
20	Cable cover	1
21	Bench module A	2
22	Bench module B	2
23	Side glass cover	2



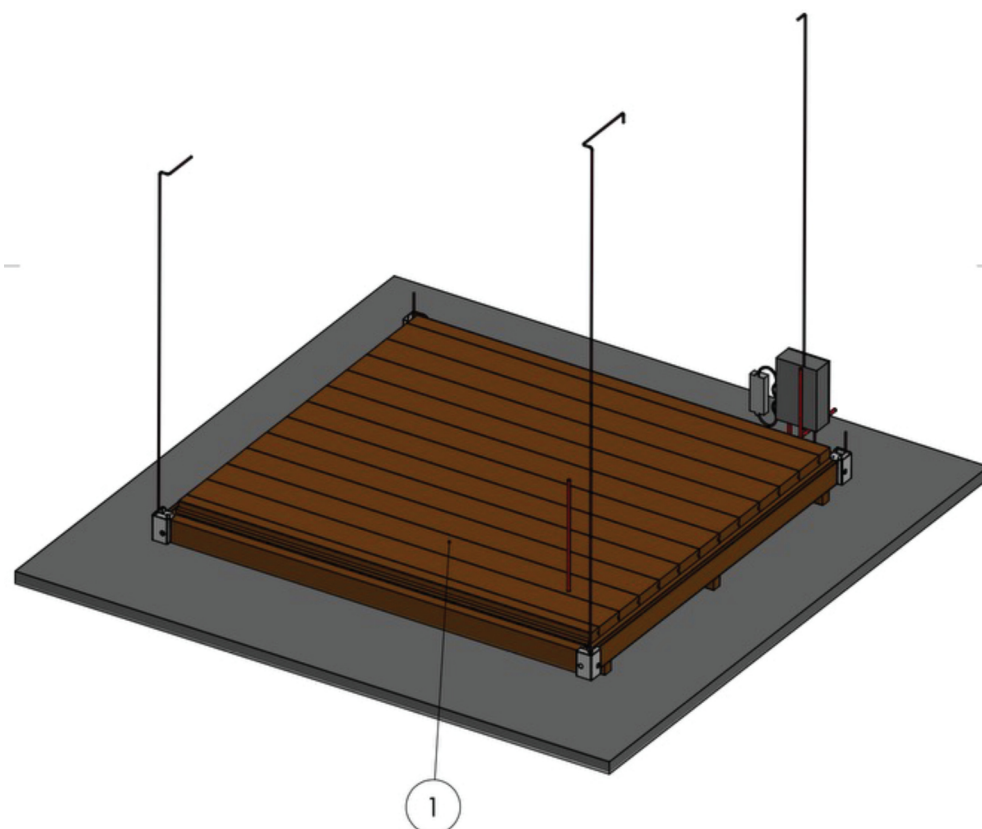
5.2 Setting up the Sauna - Harvia

Follow this section if your sauna is supplied with a 9kW Harvia heater. If you have a HUUM heater, skip to section 5.3.

Step 1 – Position the floor module

1. Place the floor module in its designated location.
2. Level the platform to prevent rocking.

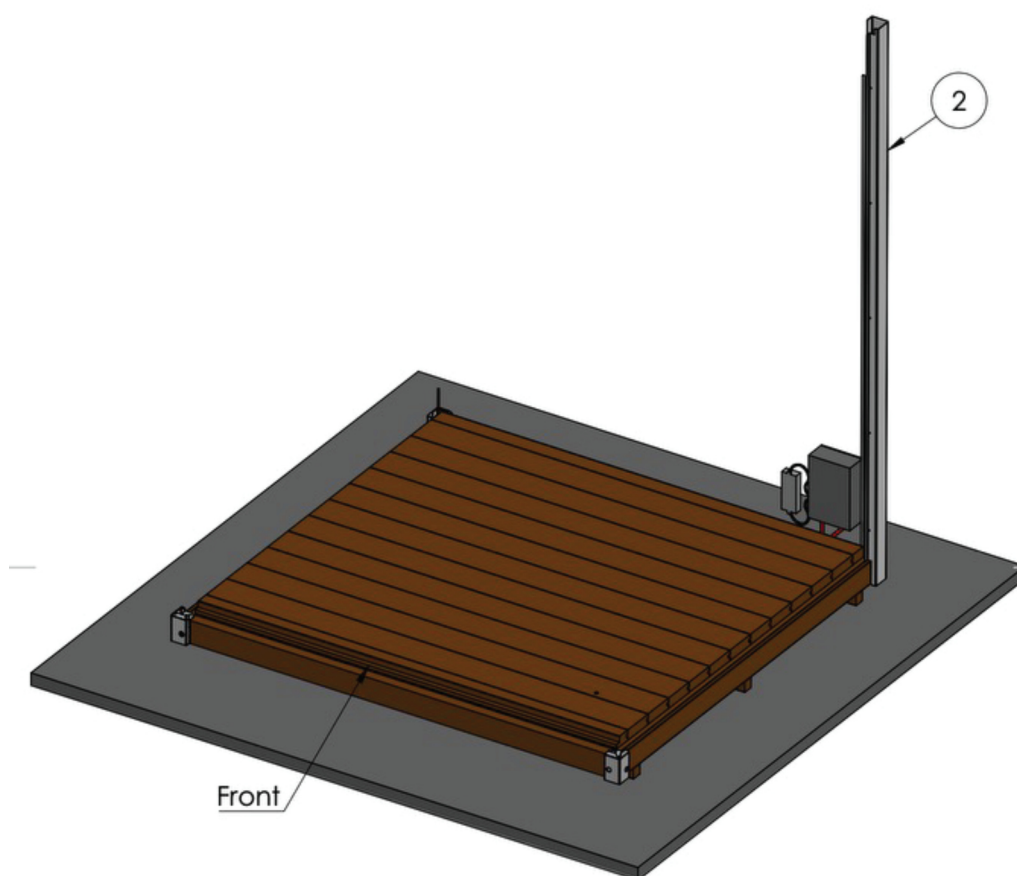
Do not remove the cable ties yet. Remove them only once the floor module is in its final position.



Step 2 – Install the back right column

1. Connect the LED cable to the back right column before seating it.
2. Insert the column on its holder. The LED wire must be on the bottom side.

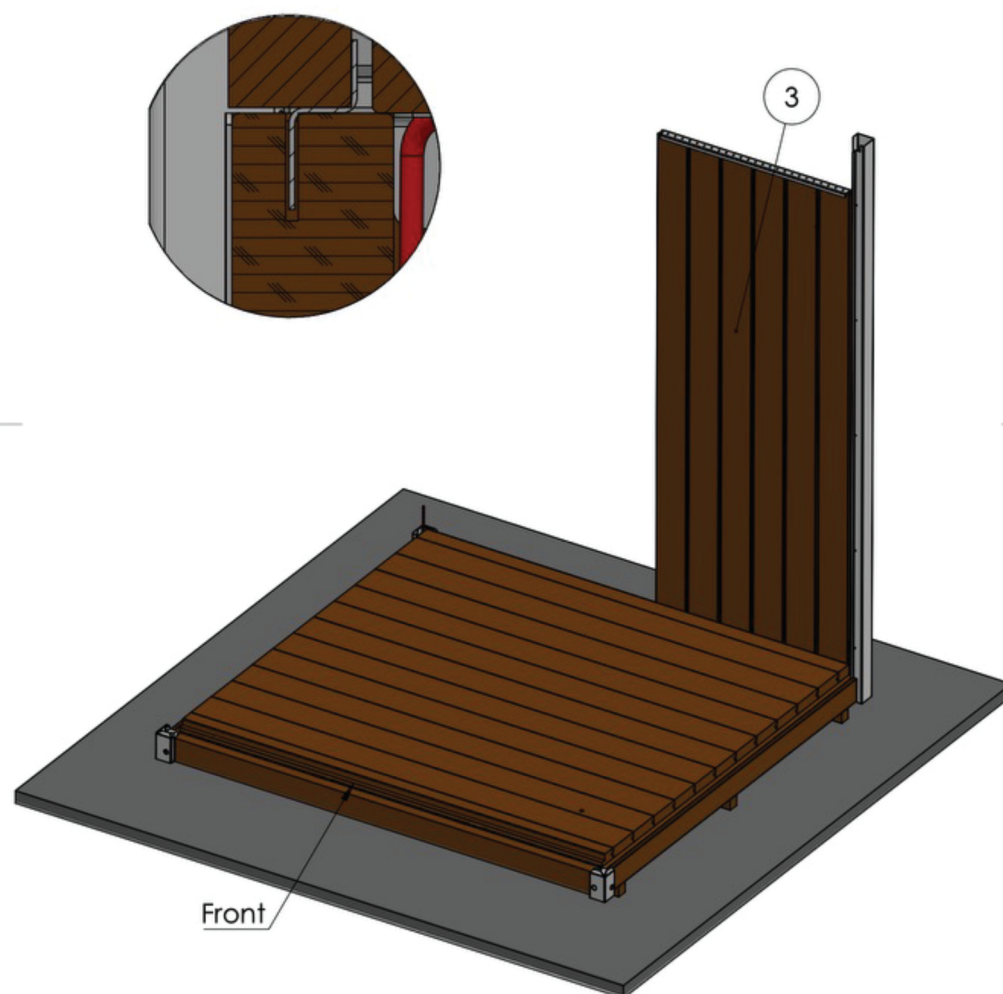
Warning: Do not damage either end of the LED cable during installation. When seated correctly, the column stands on its own. Do not apply pressure from any side.



Step 3 – Install back wall module A

1. Insert back wall module A into the slot at the back of the floor platform. The bottom bracket must be fully seated in the slot.
2. Slide the module towards the column until the edge of the column is fully seated in the board.

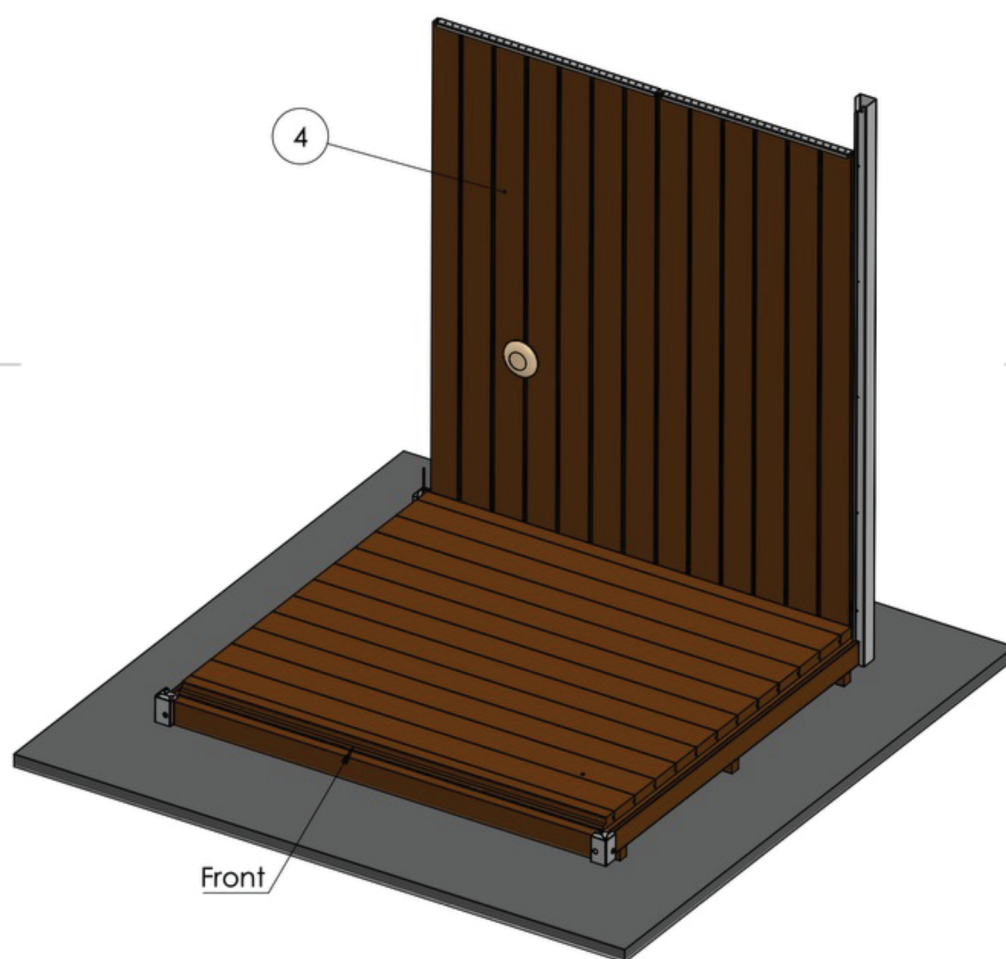
When inserted correctly, the wall module stands on its own. Do not apply pressure from any side.



Step 4 – Install back wall module B

1. Insert back wall module B into the slot at the back of the floor platform.
2. Slide module B towards module A until the tongue and groove joint is fully seated.

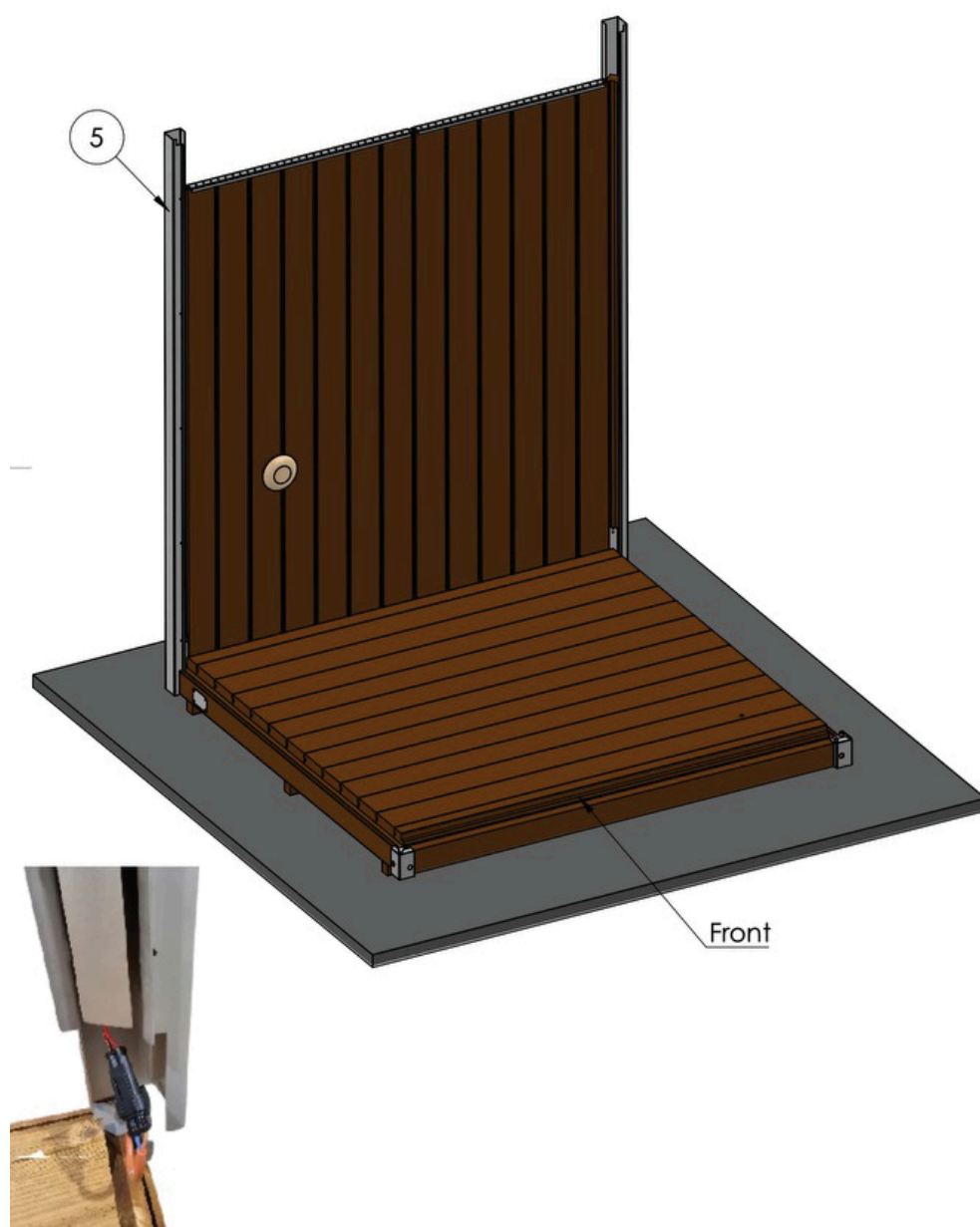
When inserted correctly, the wall module stands on its own. Do not apply pressure from any side.



Step 5 – Install the back left column

1. Connect the LED cable before seating the column.
2. Insert the back left column on its holder. The edge of the column must also slot into the groove on the side board of back wall module B.

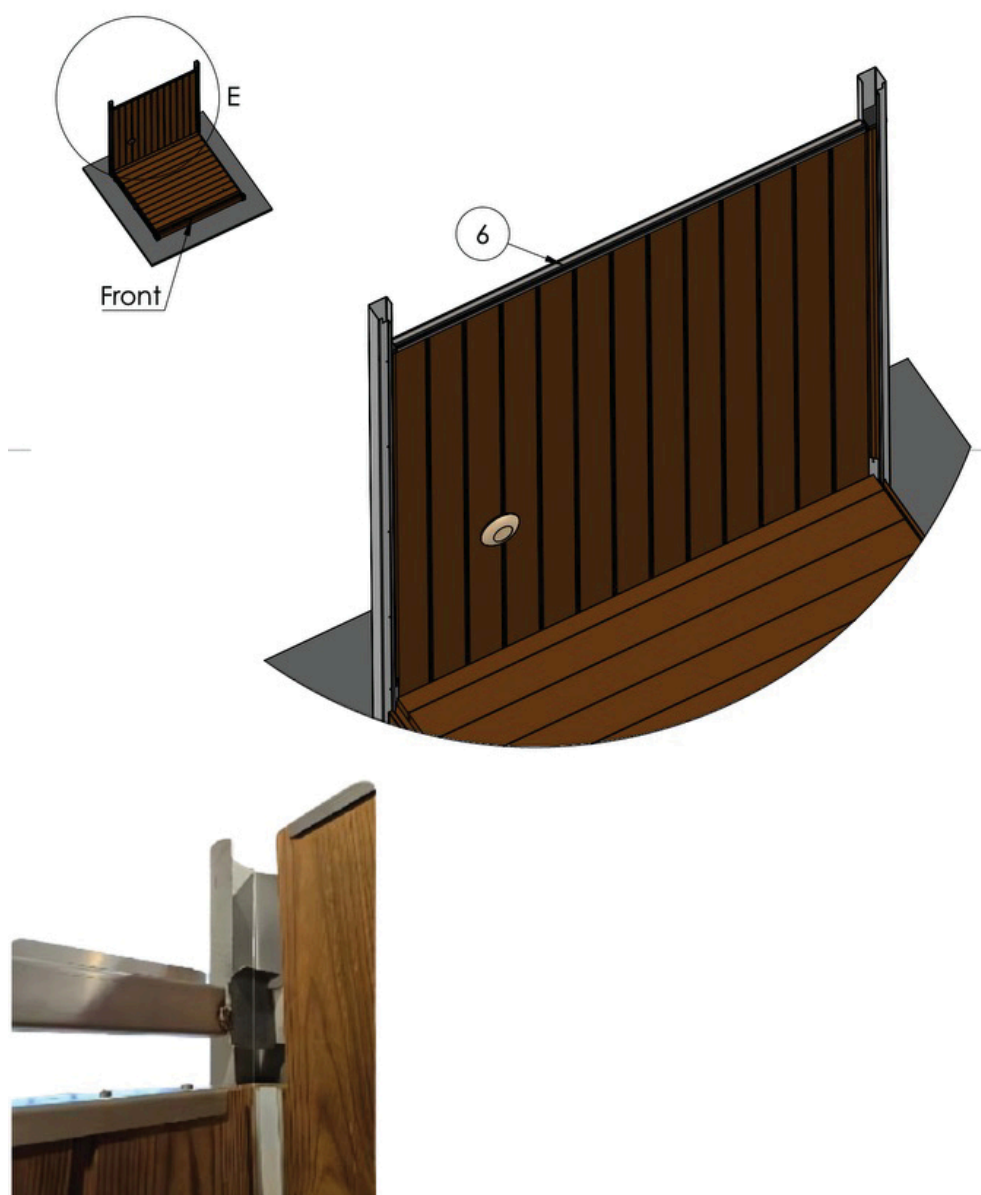
Warning: The LED cable must be connected before the column is seated on the holder.



Step 6 – Install the back wall bracket

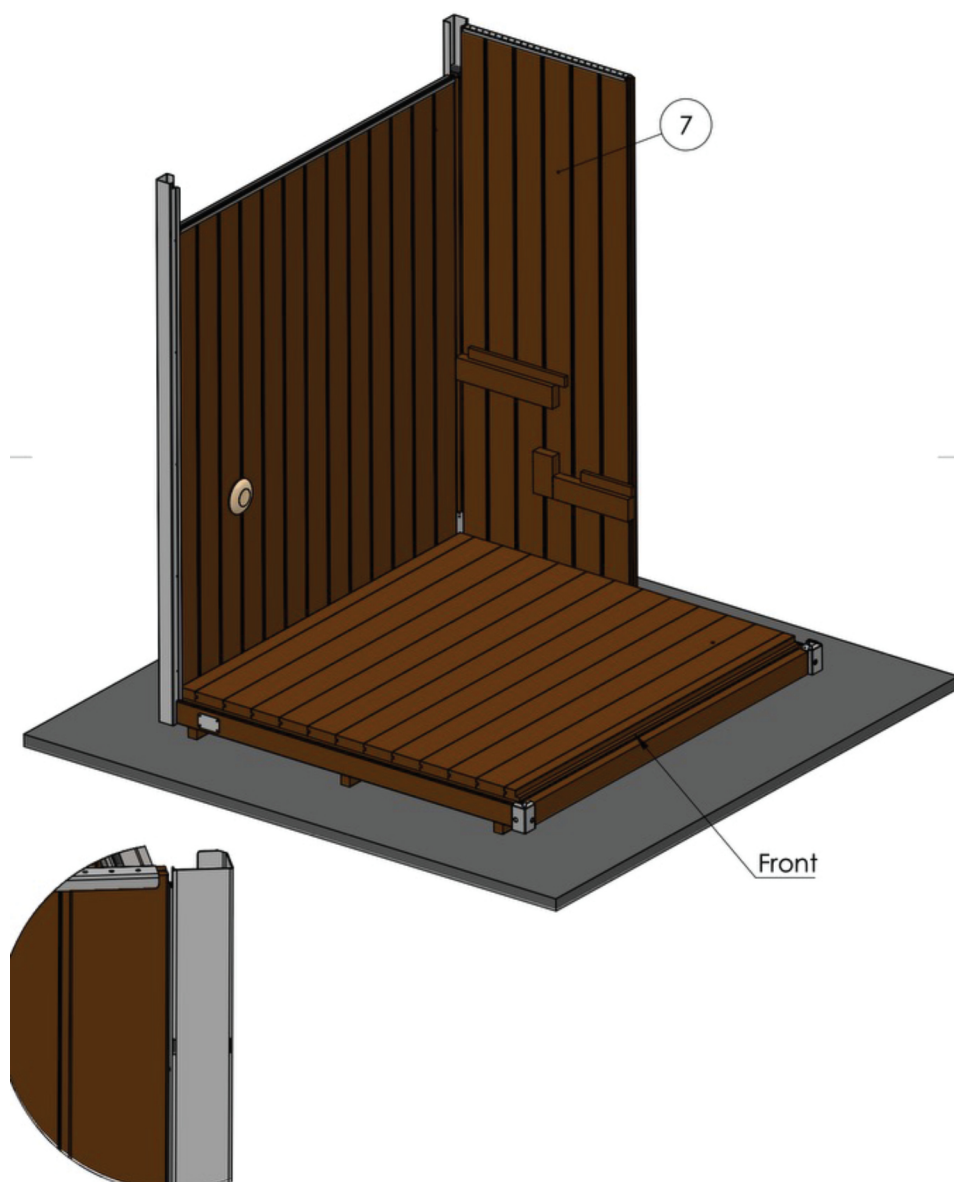
1. Insert the bracket through the top of both columns.
2. Lower the bracket vertically until it touches the wall modules.
3. Twist the bracket into its final position.

Tip: Install the bracket vertically first, then twist it in place. If extra force is needed, tap the ends of the bracket (where the rubber blocks are located) with a rubber hammer.



Step 7 – Install right wall module A

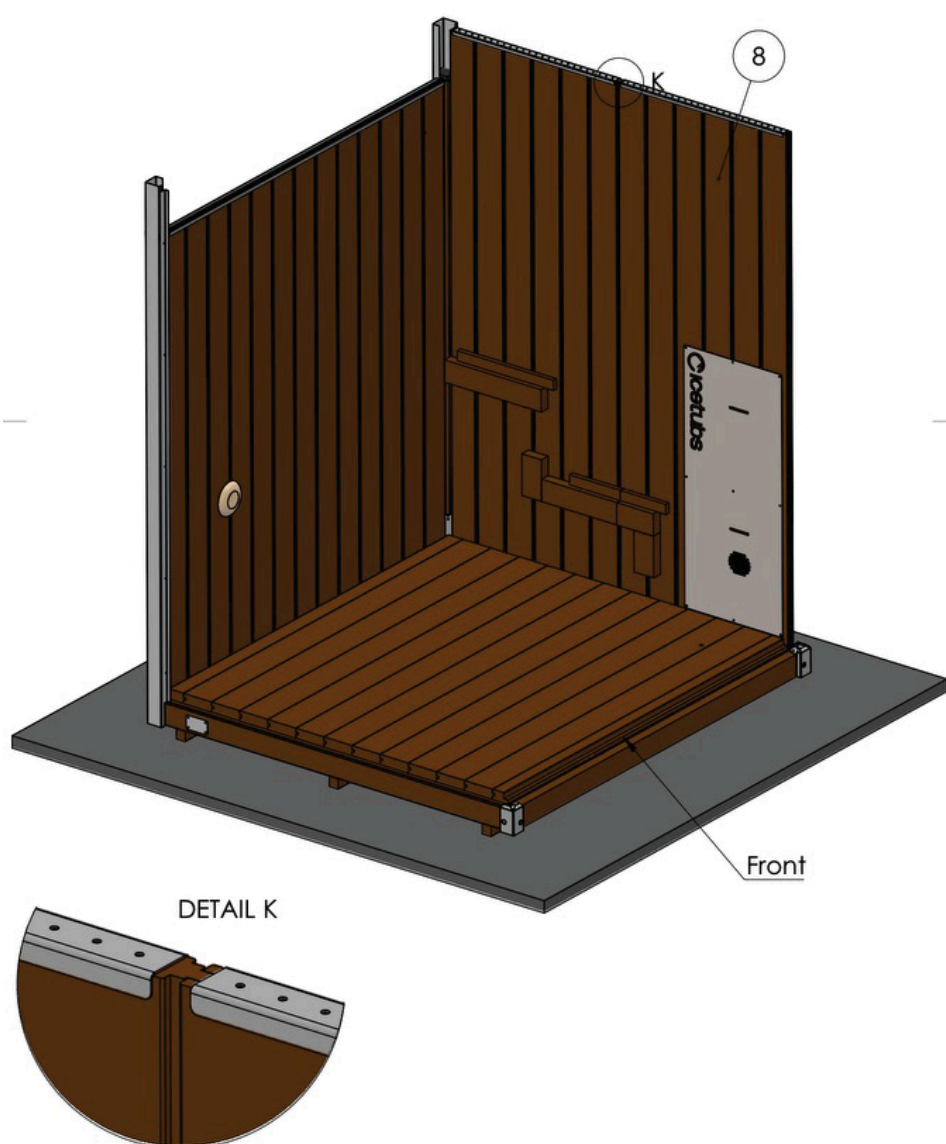
1. Insert right wall module A into the floor platform.
2. Slide the module towards the column until it is fully seated.



Step 8 – Install right wall module B

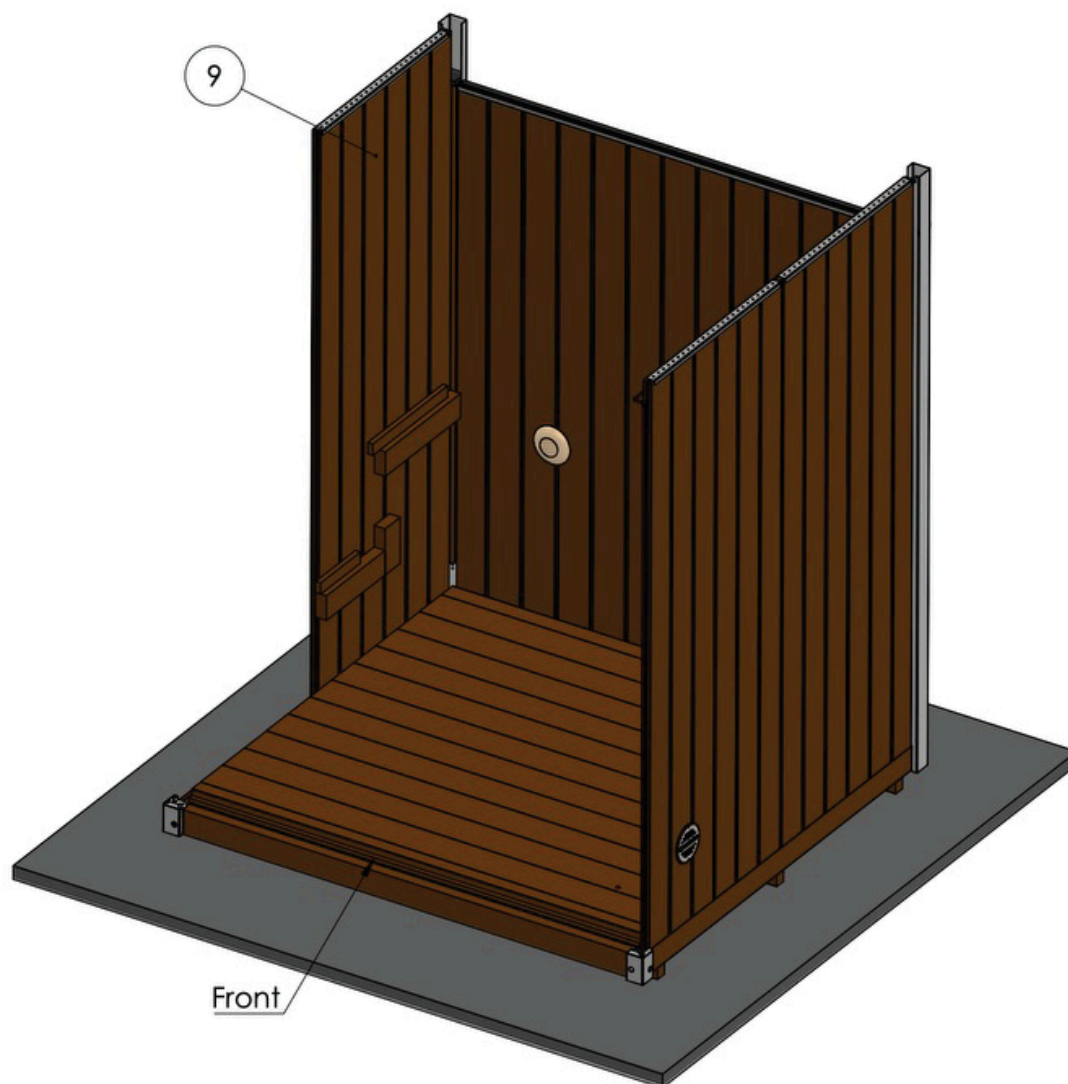
This step is done from inside the sauna.

1. Insert right wall module B into the slot of the floor platform.
2. Slide the module towards the back until the tongue and groove between the wall panels is fully interlocked.



Step 9 – Install left wall module A

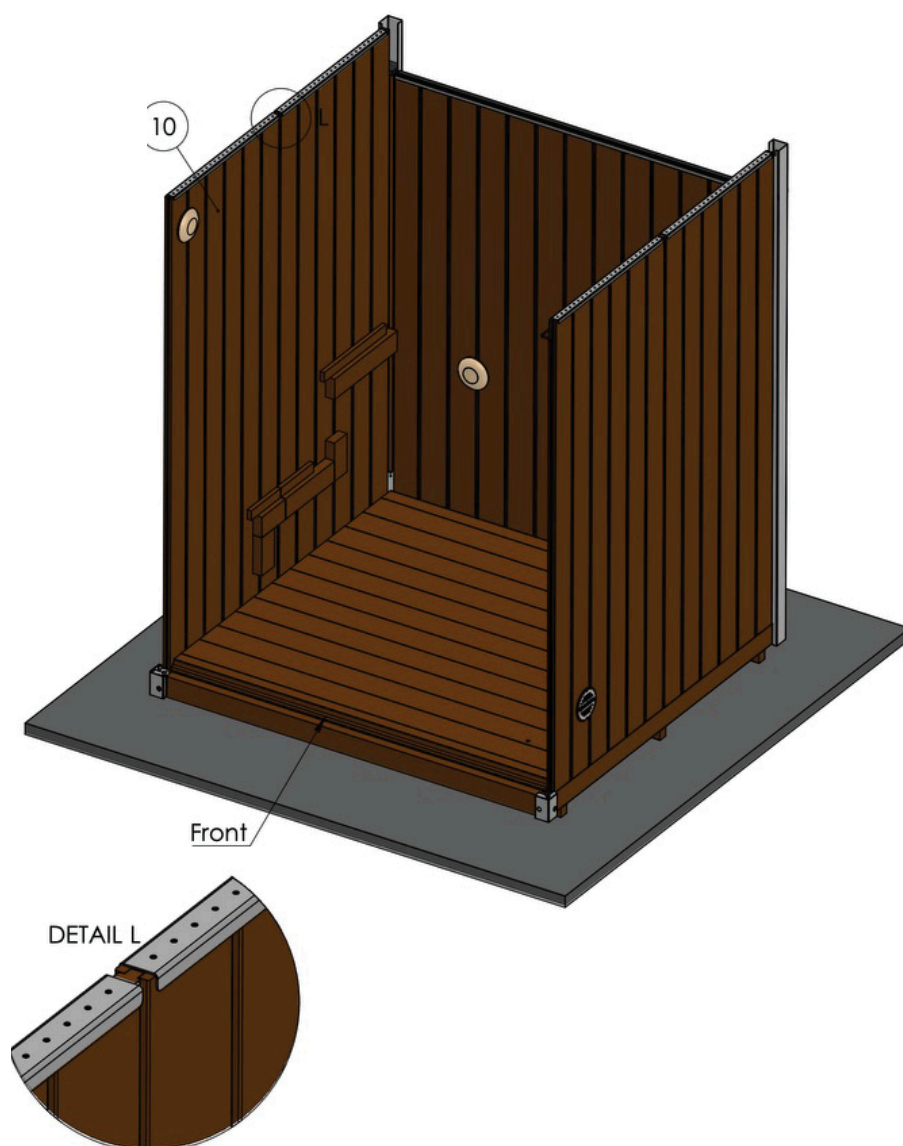
Repeat step 7 on the opposite side using left wall module A (No. 9).



Step 10 – Install left wall module B

Repeat step 8 on the opposite side using left wall module B (No. 10).

Warning: The tongue and groove connection between the panels must be fully seated.



Front wall assembly – choose your route

The front wall can be installed in two sequences, depending on where the sauna is located:

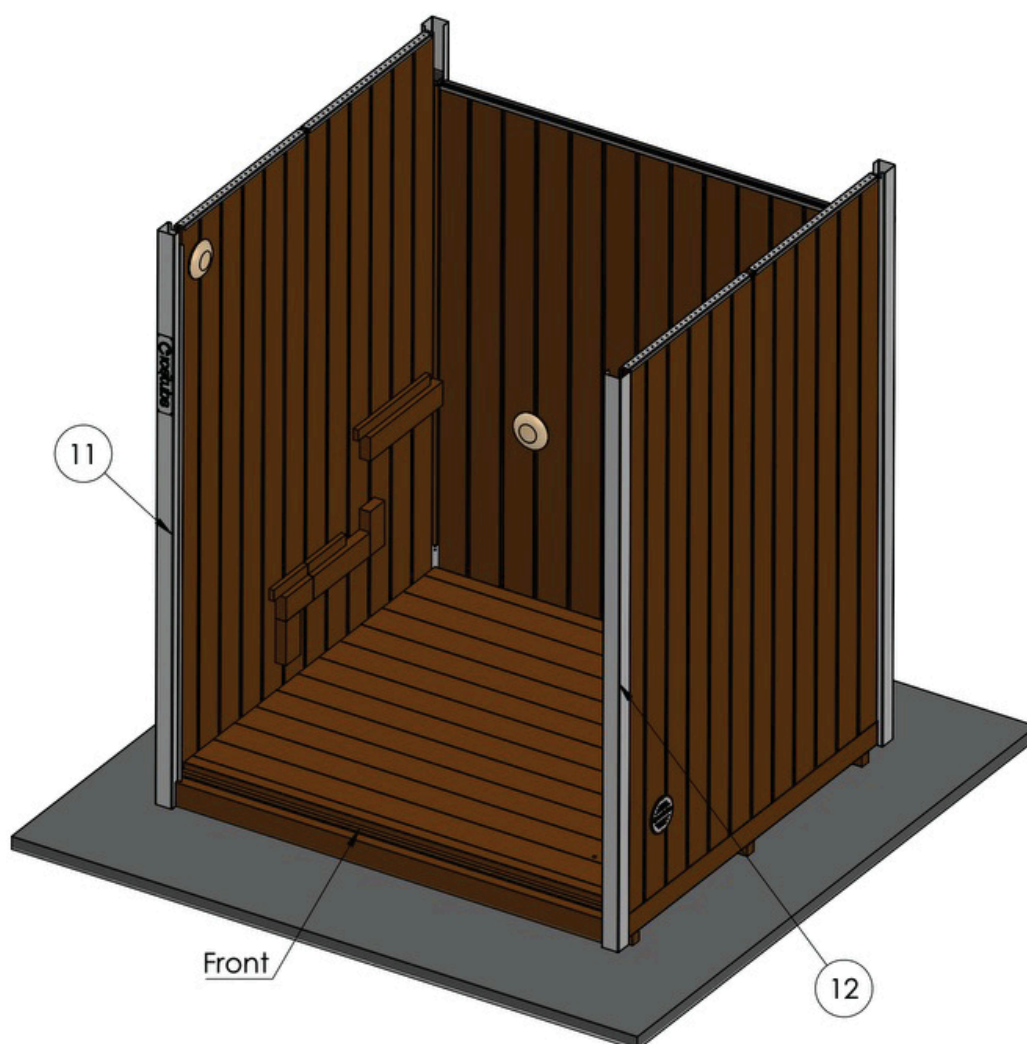
- Outdoor assembly with at least 2.5 m of clearance above the sauna: follow steps 11 to 14.
- Indoor assembly or limited overhead clearance: follow steps 15 to 19.

Only one sequence applies. Skip the other.

Route A – Outdoor assembly (steps 11 to 14)

Step 11 – Install front left and front right columns

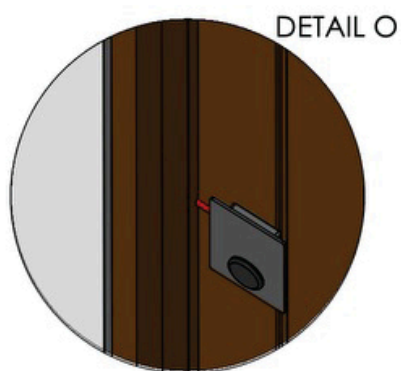
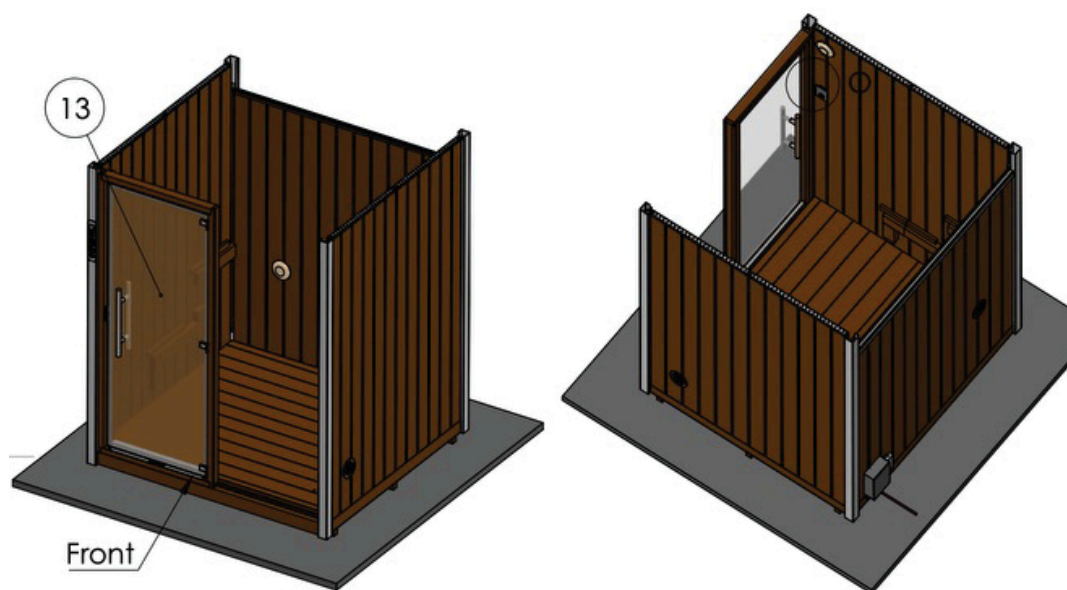
1. Insert the front left column (the one with the logo plate) on its holder on the front of the sauna base.
2. Insert the front right column on its holder on the opposite side.
3. The edge of each column must be fully seated in the wooden wall panel.



Step 12 – Install the door module

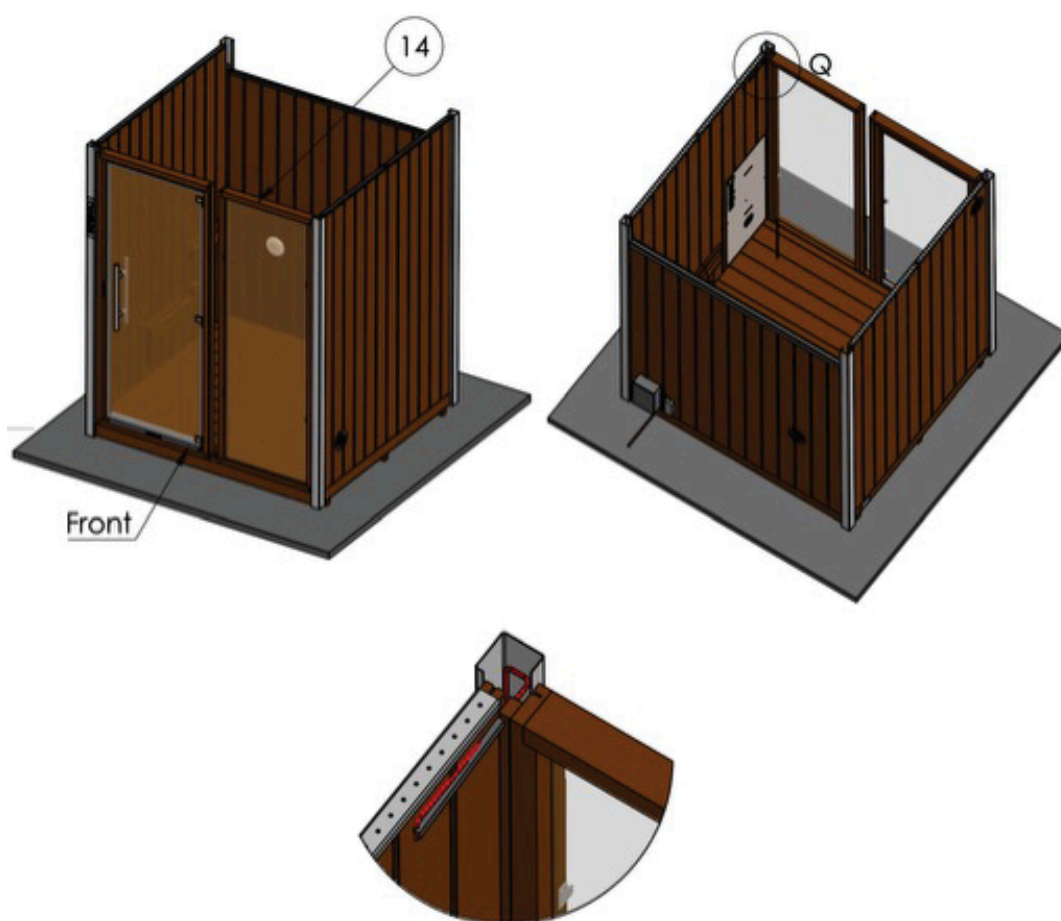
1. Place the door module on the left side of the platform. The metal bottom panel positioning holders must fit in the gap between the frame and the floor boards.
2. Slide the door module towards the left column until the edge of the column is fully seated in the wooden frame of the panel.

Warning: While installing the door module, route the wire for the light switch through the provided slot.



Step 13 – Install the side glass module

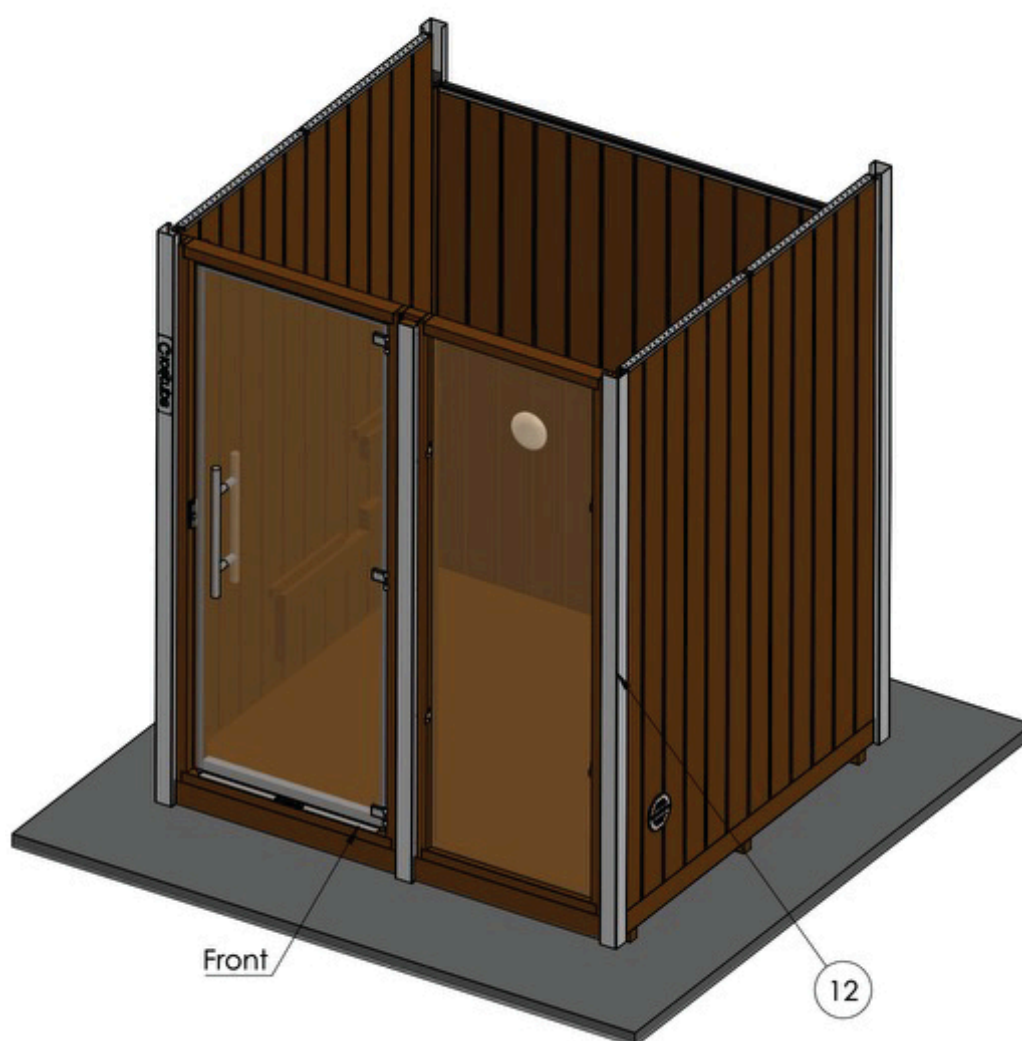
1. Insert the side glass module on the right side of the platform. The bottom positioning brackets must fit in the gap between the frame and the floor boards.
2. Slide the side glass module towards the right column until the edge of the column is fully seated in the wooden frame of the panel.



Step 14 – Install the center column

1. Insert the center column between the door module and the side glass module.
2. Push the column from top to bottom into the slots of the wooden frame.

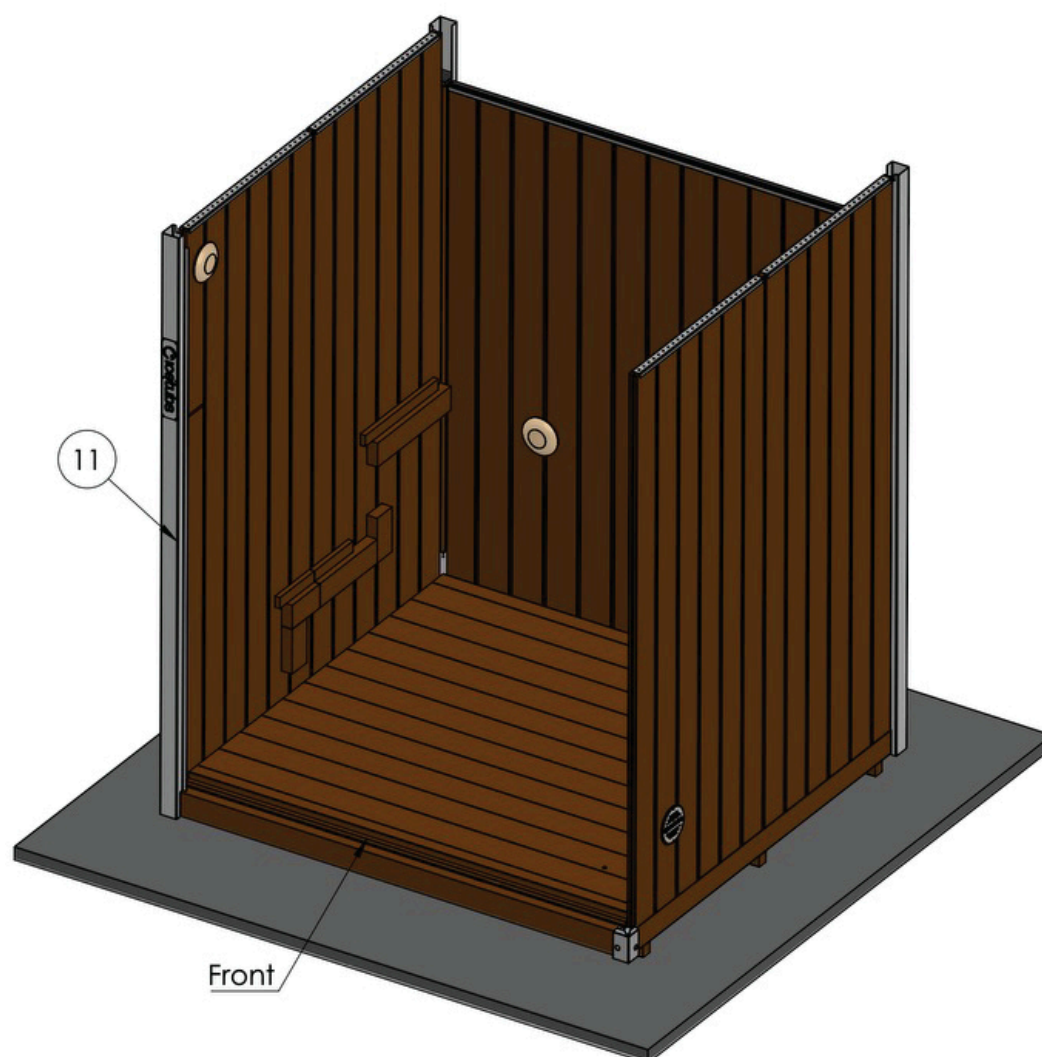
Warning: This step requires a ladder.



Route B – Indoor assembly (steps 15 to 19)

Step 15 – Install the front left column

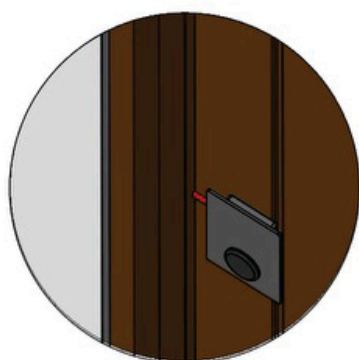
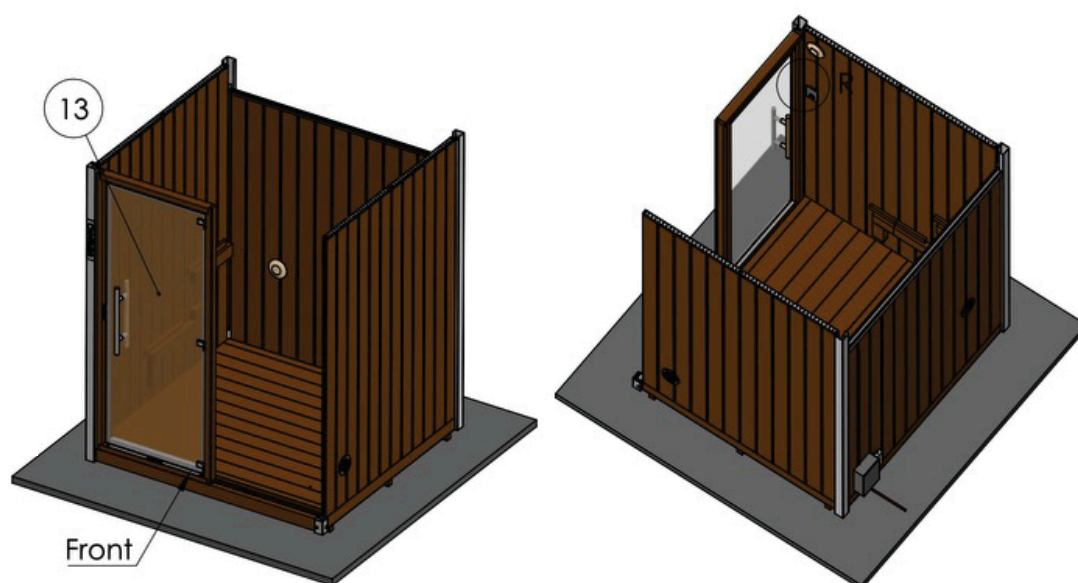
1. Insert the front left column (the one with the logo plate) on its holder in the front left corner of the sauna base.
2. The edge of the column must be fully seated in the wooden wall panel.



Step 16 – Install the door module

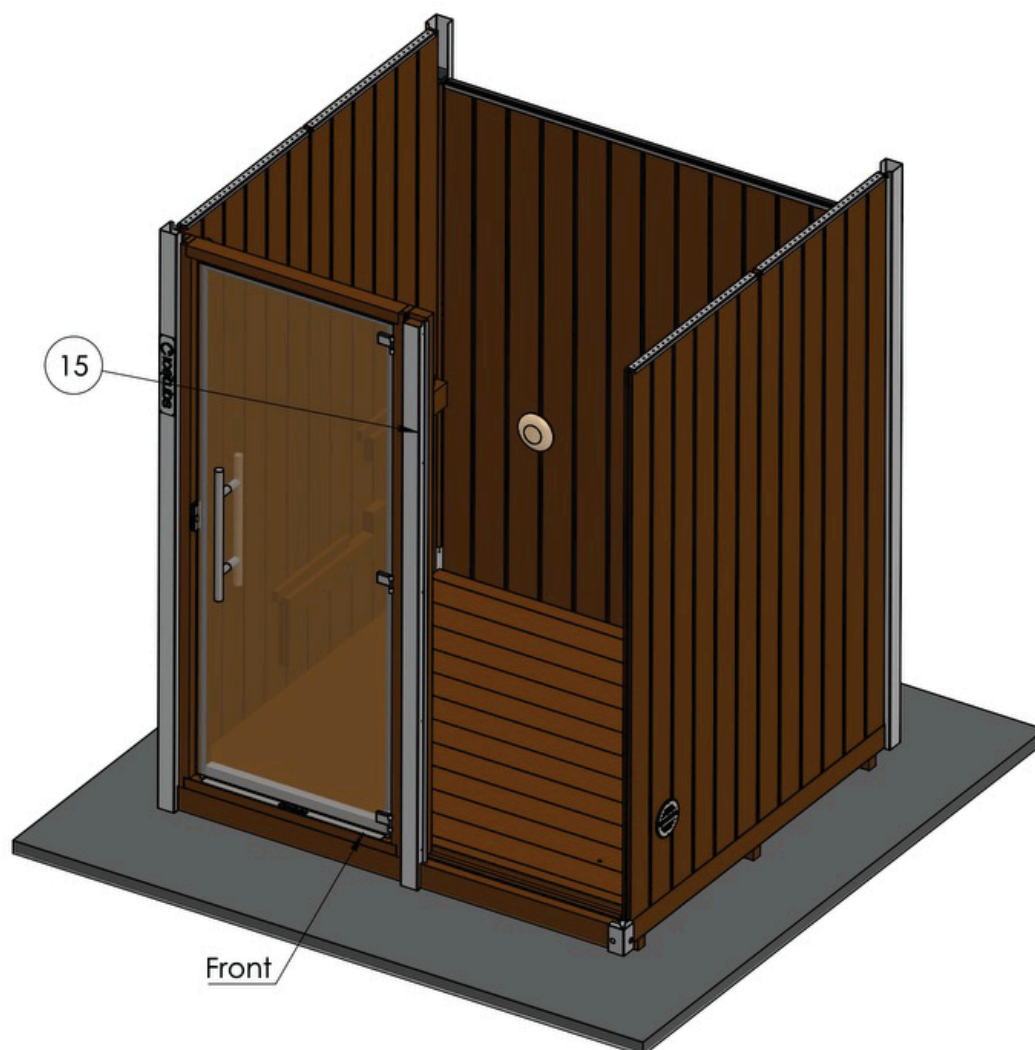
1. Place the door module on the left side of the platform. The metal bottom panel positioning holders must fit in the gap between the frame and the floor boards.
2. Slide the door module towards the left column until the edge of the column is fully seated in the wooden frame of the panel.

Warning: While installing the door module, route the wire for the light switch through the provided slot.



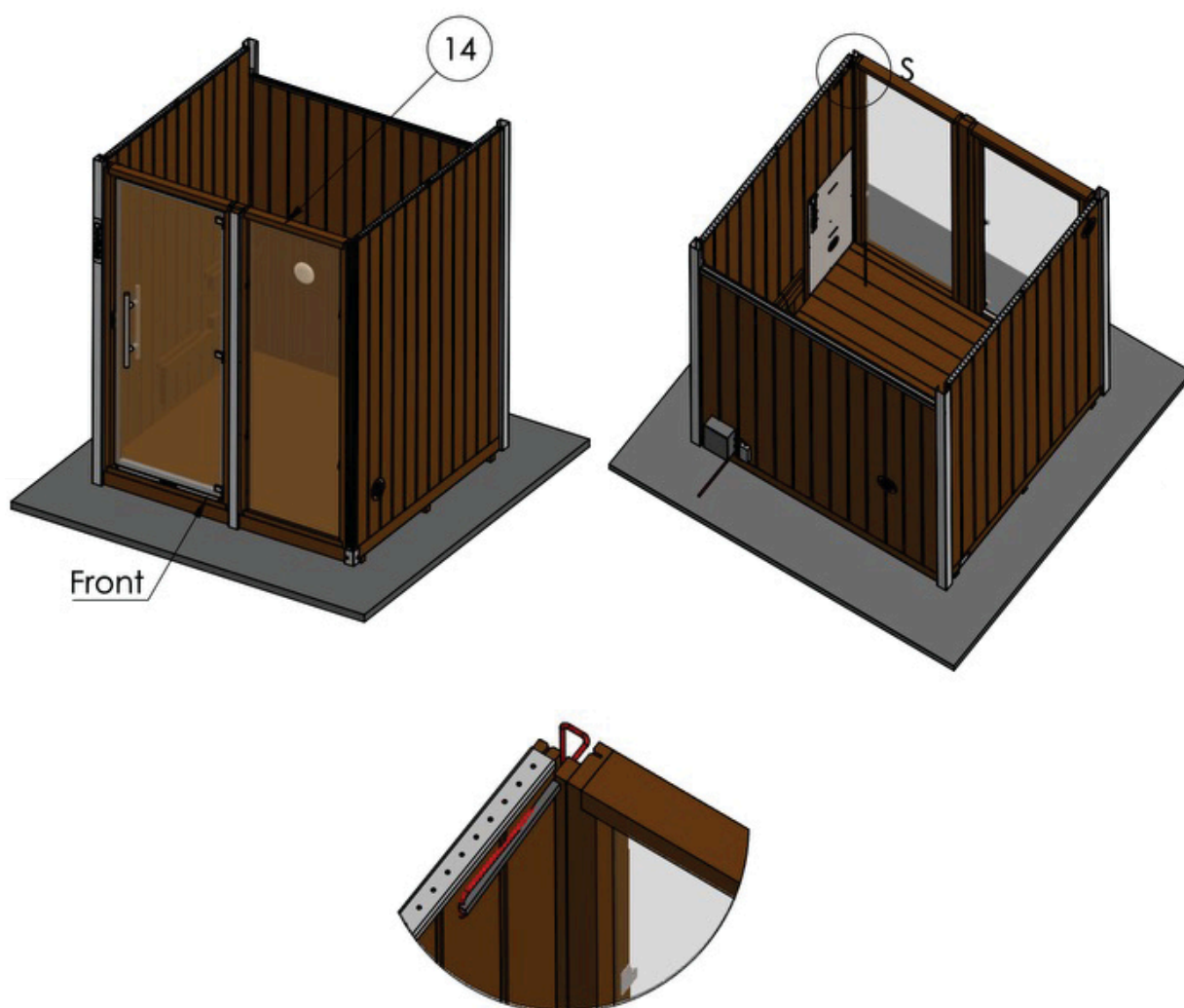
Step 17 – Install the center column

1. Insert the center column alongside the door module.
2. Push the column into the slot of the wooden frame.



Step 18 – Install the side glass module

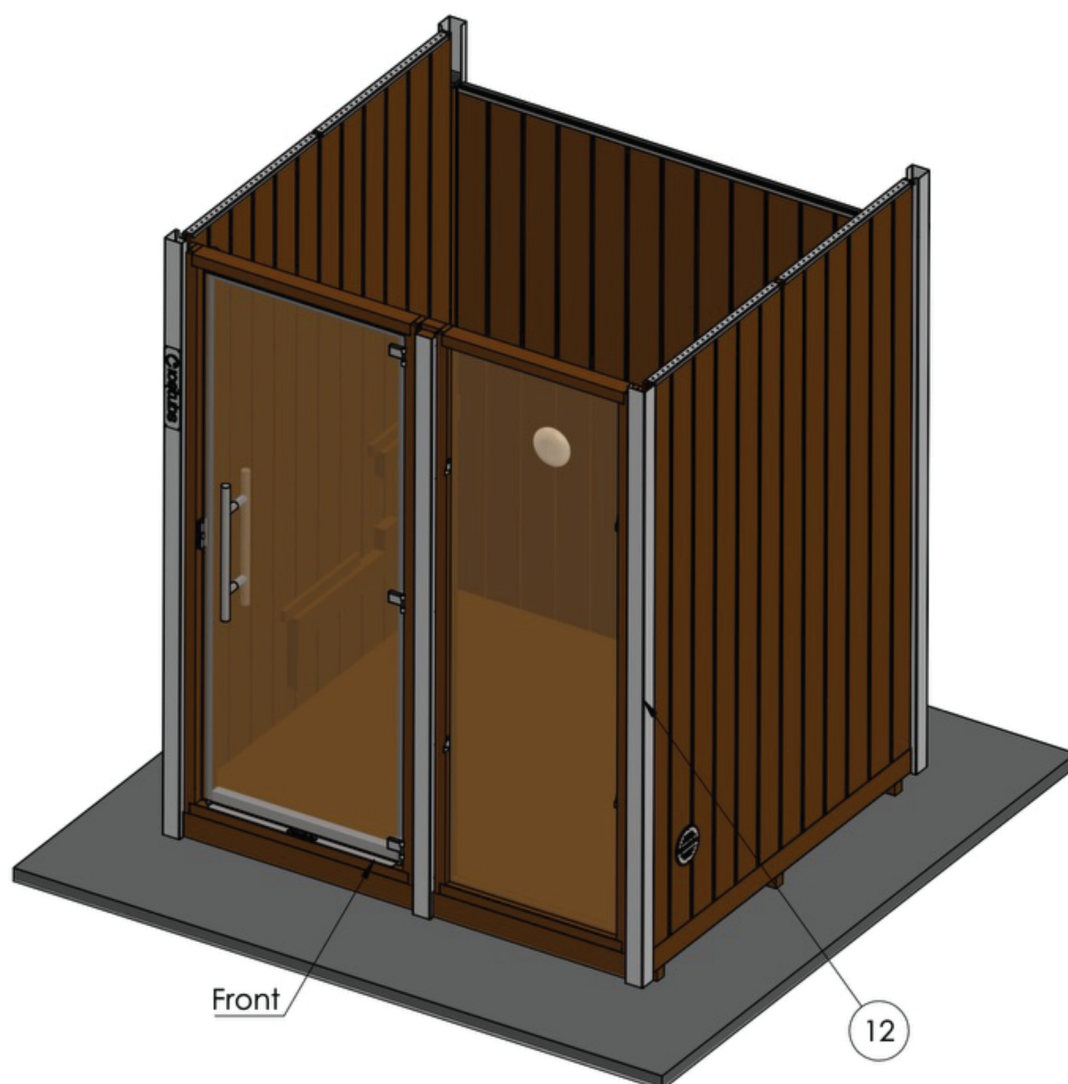
1. Insert the side glass module on the right side of the platform. The bottom positioning brackets must fit in the gap between the frame and the floor boards.
2. Slide the side glass module towards the center column until the edge of the column is fully seated in the wooden frame of the panel.



Step 19 – Install the front right column

1. Insert the front right column on its holder.
2. The edges of the column must be fully seated inside the grooves in the wall module and the side glass module.

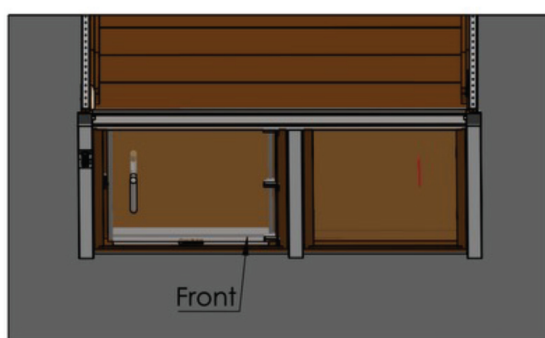
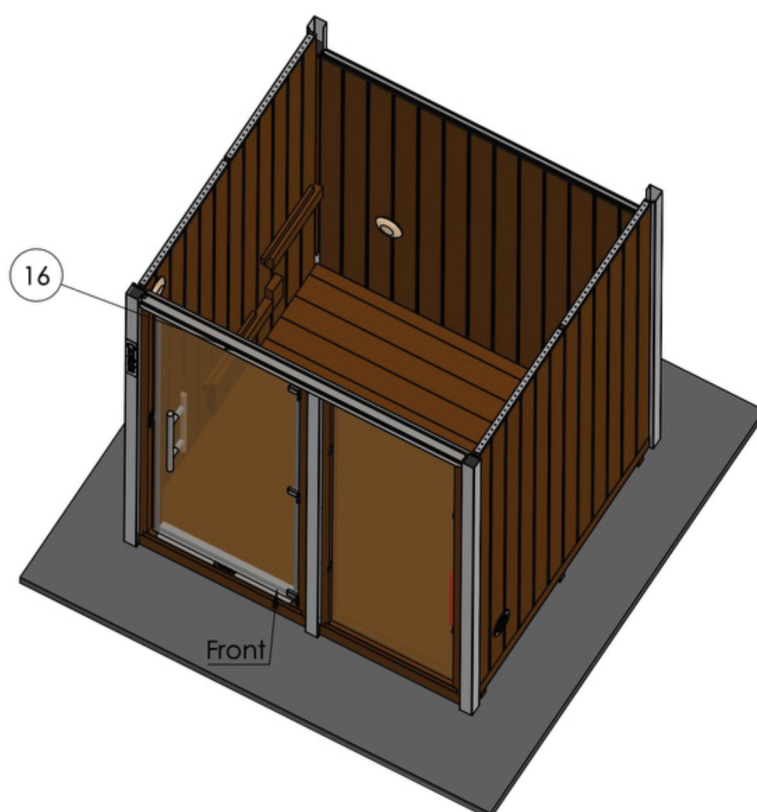
Warning: The wall will need to be flexed to complete this step.



Step 20 – Install the front wall bracket

The front wall bracket comes with pre-attached rubber sealing blocks.

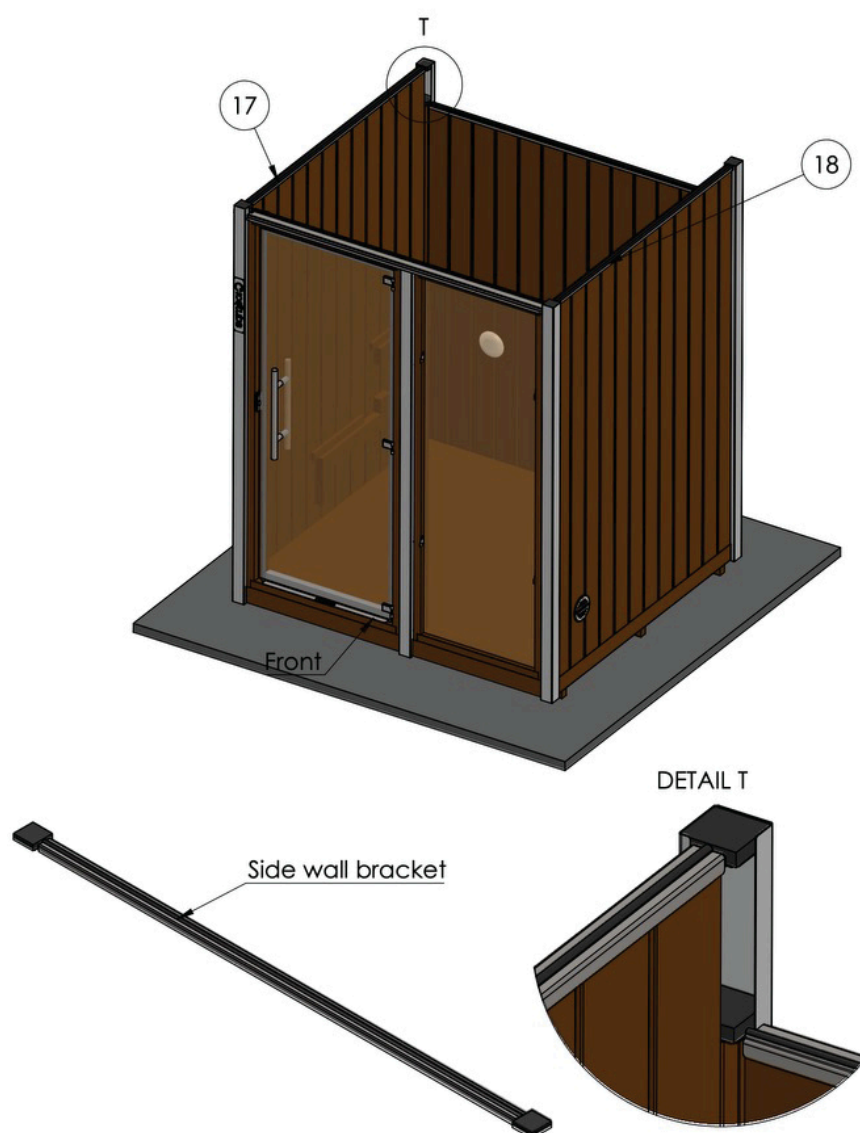
1. Place the front wall bracket on top of the door module and the side glass module.
2. Insert the bracket into the columns.



Step 21 – Install the side wall brackets

Both side wall brackets come with pre-attached rubber sealing blocks and a gasket.

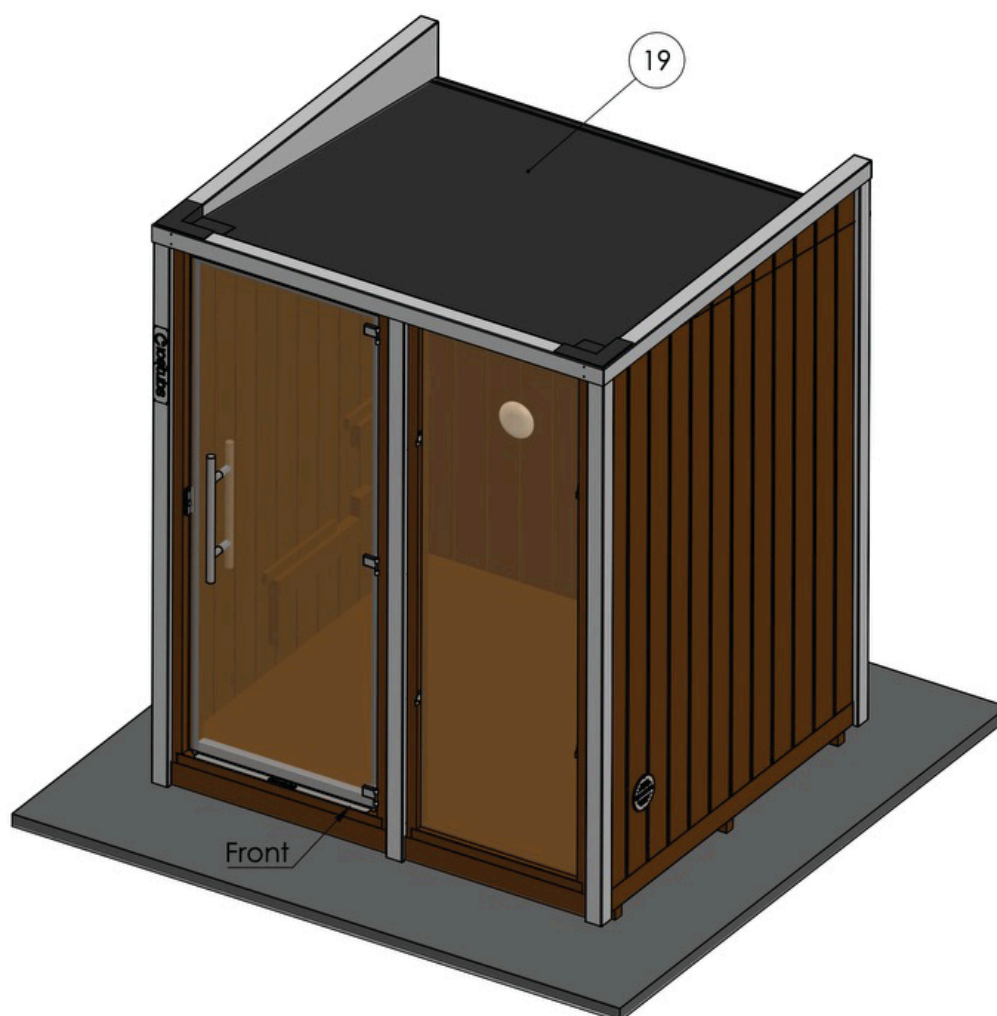
1. Position the right side wall bracket on top of the right side wall and slot it into place.
2. Position the left side wall bracket on top of the left side wall and slot it into place.



Step 22 – Install the roof module

Warning: This step requires 3 to 4 people. Two people should lift the roof from the outside. One or two people should support the weight from inside the sauna.

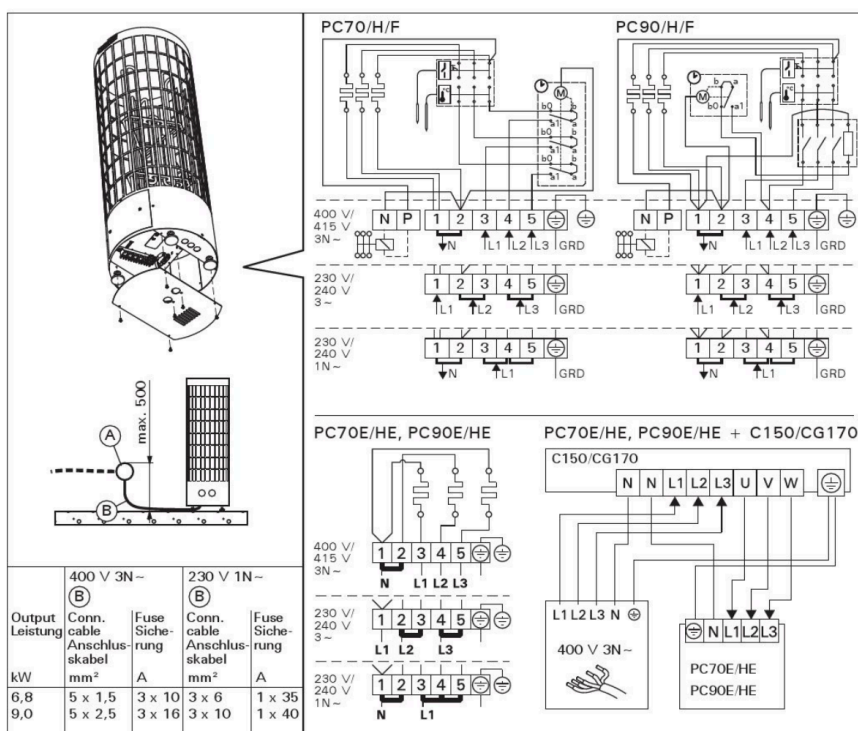
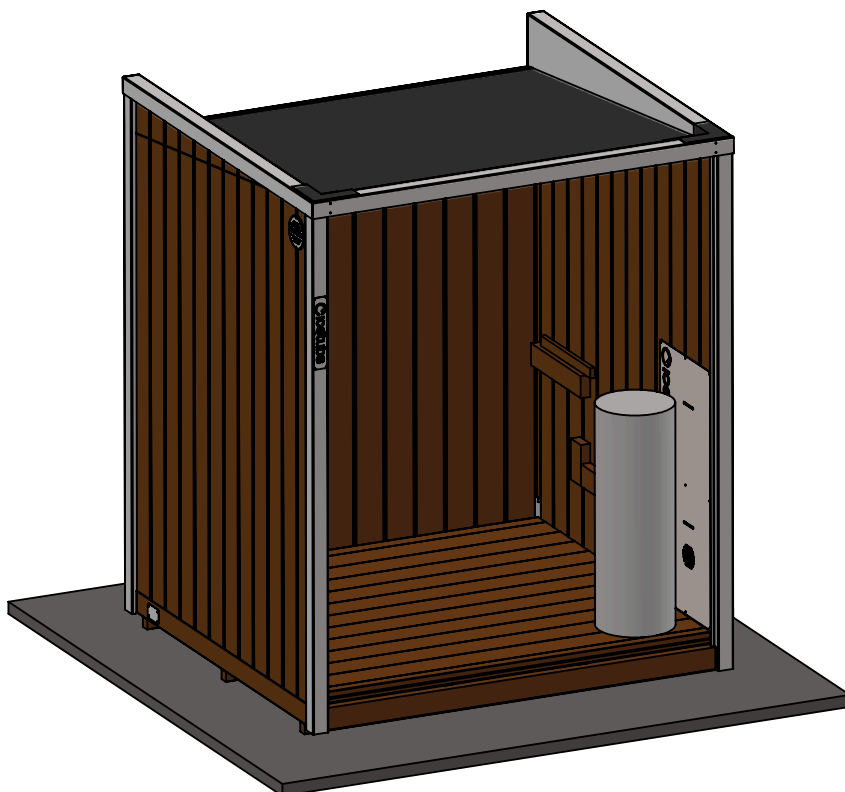
1. Place the roof assembly on top of the sauna.
2. The roof can be lifted on from any direction, depending on where the sauna is located. For easiest installation, slot the front corners of the roof module in first.



Step 23 – Connect the Harvia heater

1. Tilt the heater on its side to access the connection area.
2. Connect the heater to the pre-installed cable.

Warning: All cable connections must follow the Harvia heater manual.



Step 24 – Install the light switch

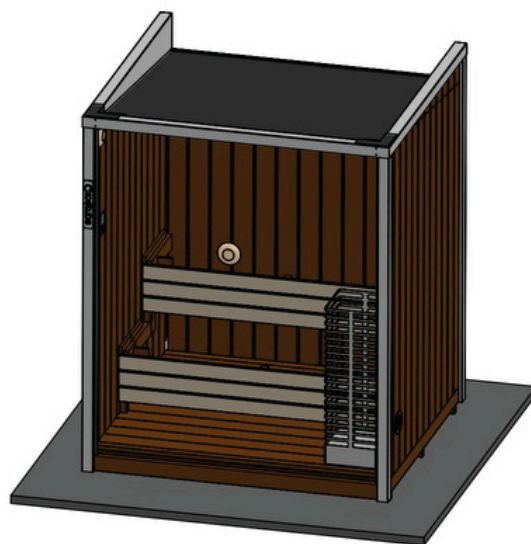
The light switch is mounted directly next to the door module, above the cable cutout.

1. Remove the top part of the light switch. This requires a lot of force.
2. Unscrew the two inner screws and remove the inner plate of the switch.
3. Mount the light switch box to the wall using the provided screws and the mounting holes on the back plate.



Step 25 – Install the lower benches

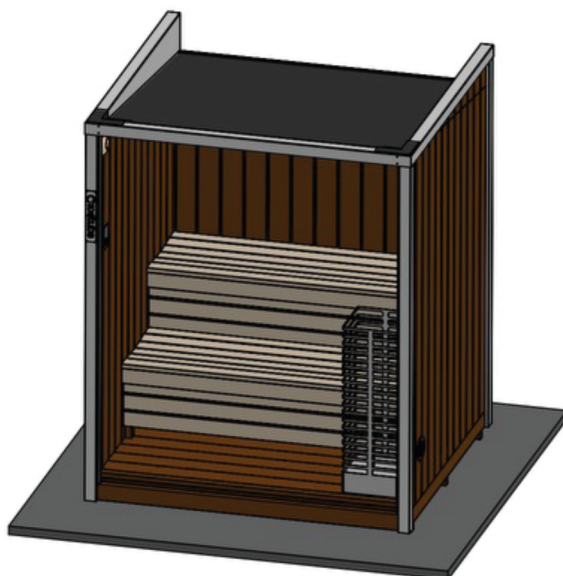
Install both lower bench module A units (No. 21) on their holders and push them against the frame.



Step 26 – Install the upper benches

The lower and upper benches use identical bench modules.

1. Place both benches roughly on the pre-attached frames.
2. Adjust their position and lock the vertical modules in place.



Assembly complete

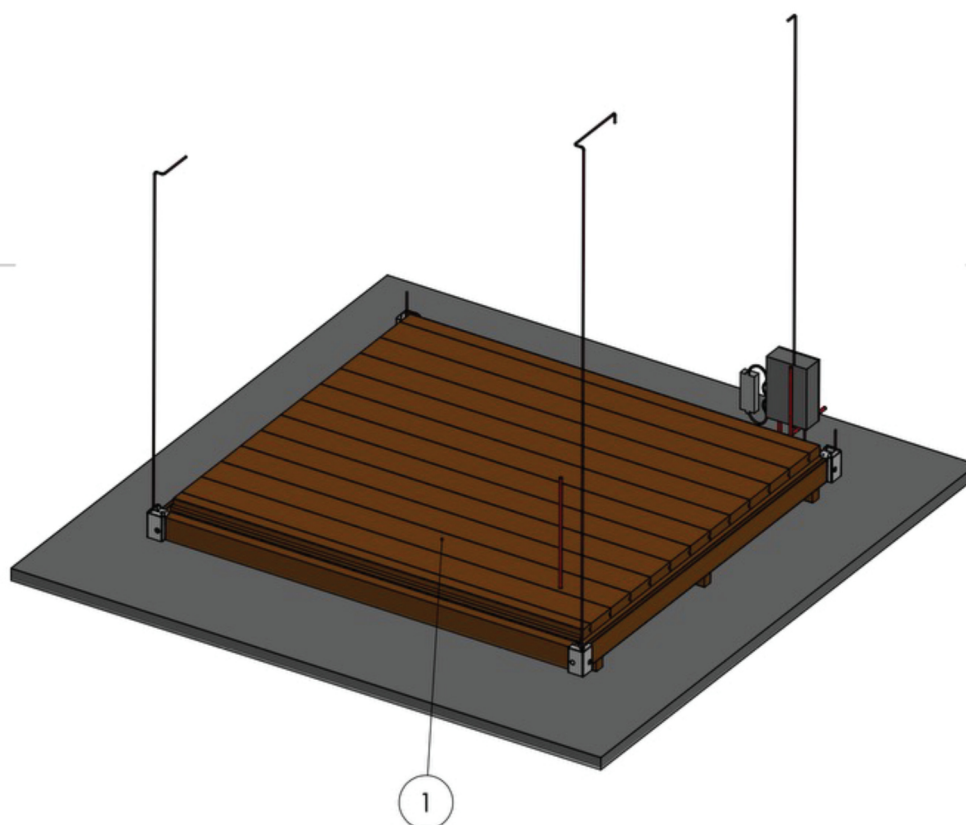
5.3 Setting up the Sauna - HUUM

Follow this section if your sauna is supplied with a 9kW HUUM Steel heater. If you have a Harvia heater, see section 5.2.

Step 1 – Position the floor module

1. Place the floor module in its designated location.
2. Level the platform to prevent rocking.

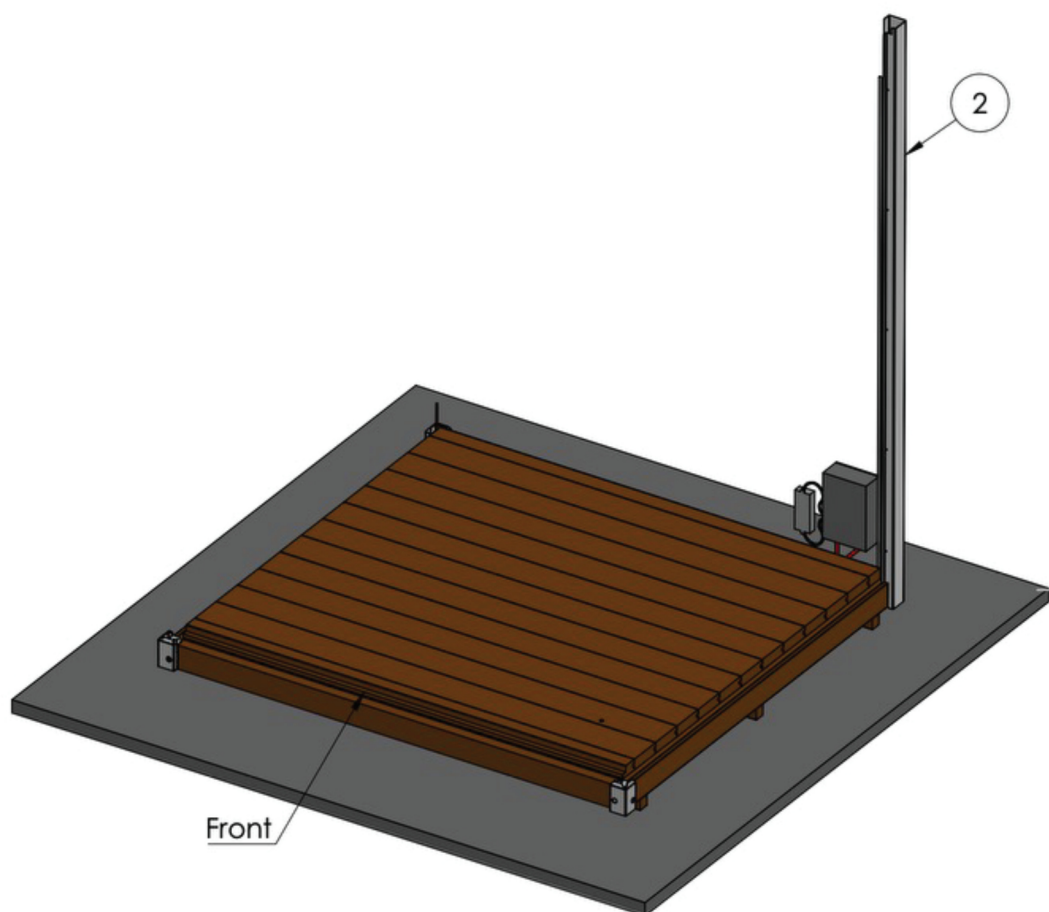
Do not remove the cable ties yet. Remove them only once the floor module is in its final position.



Step 2 – Install the back right column

1. Connect the LED cable to the back right column before seating it.
2. Insert the column on its holder. The LED wire must be on the bottom side.

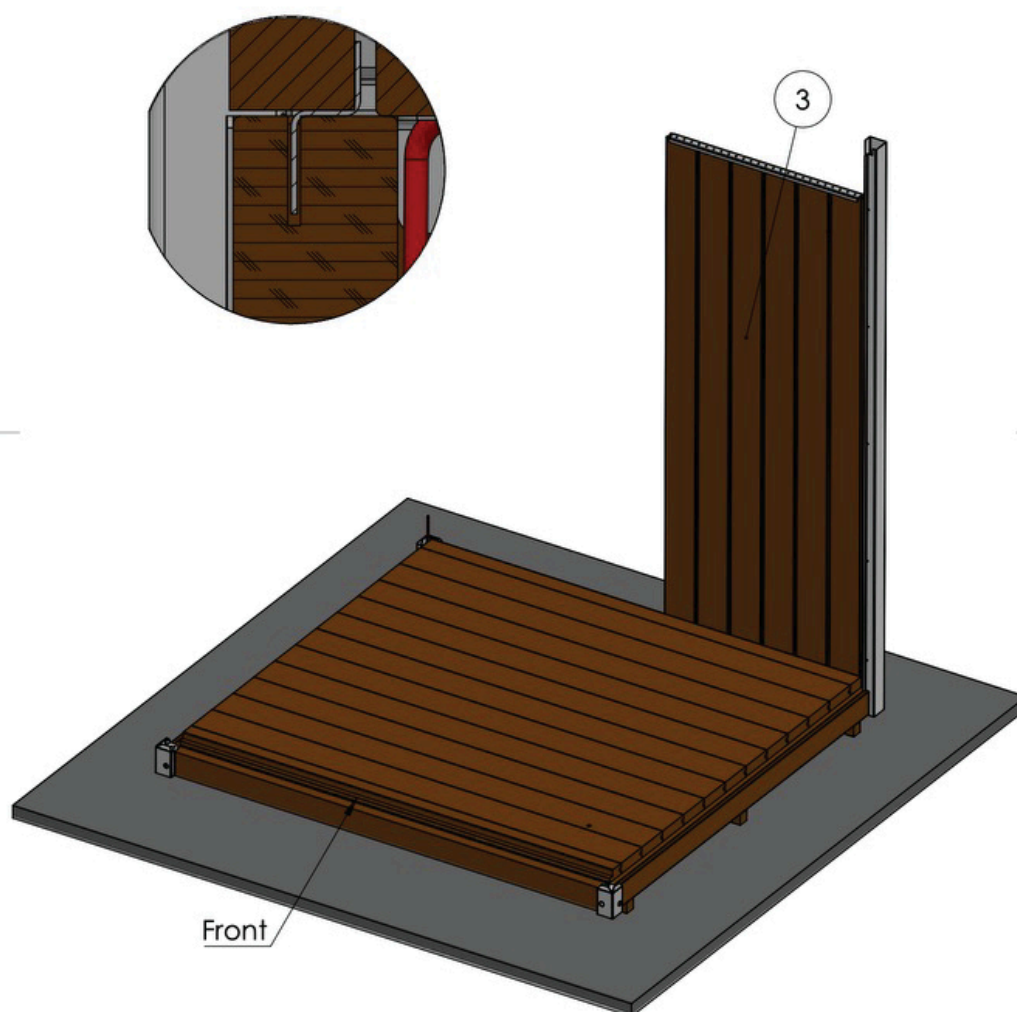
Warning: : Do not damage either end of the LED cable during installation. When seated correctly, the column stands on its own. Do not apply pressure from any side.



Step 3 – Install back wall module A

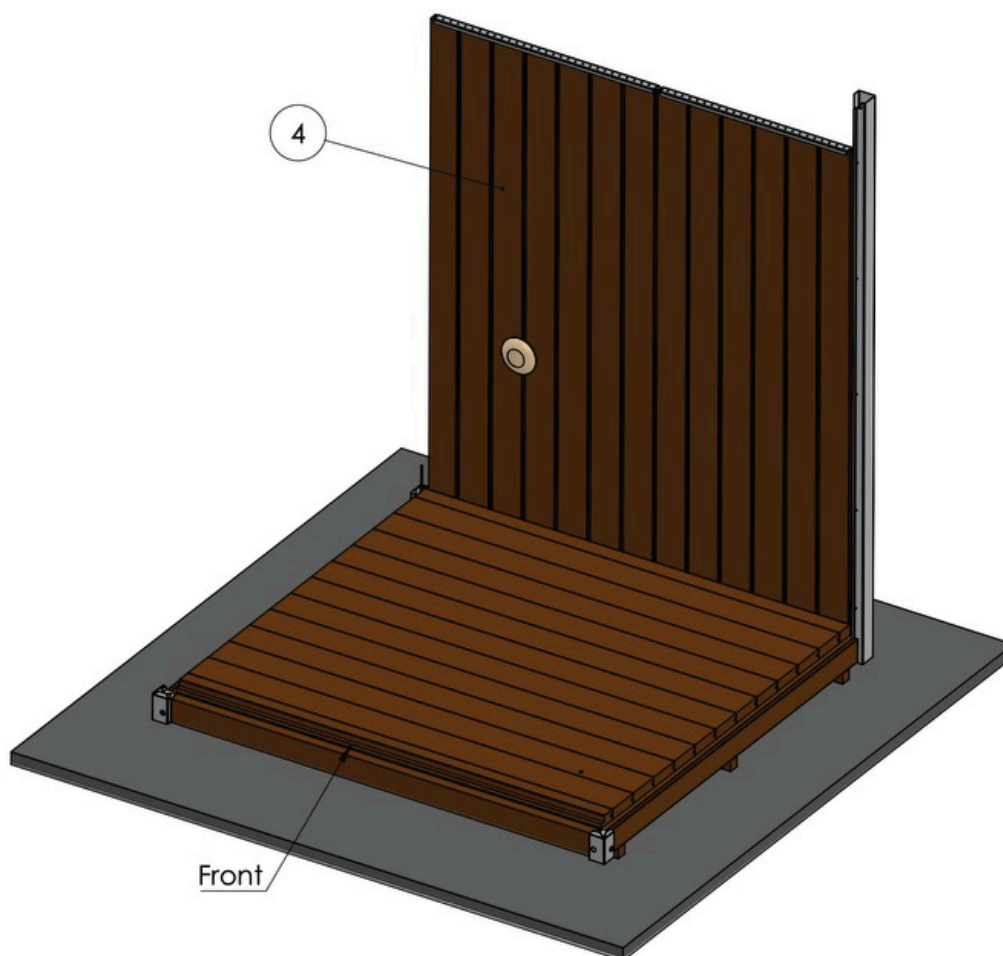
1. Insert back wall module A into the slot at the back of the floor platform. The bottom bracket must be fully seated in the slot.
2. Slide the module towards the column until the edge of the column is fully seated in the board.

When inserted correctly, the wall module stands on its own.



Step 4 – Install back wall module B

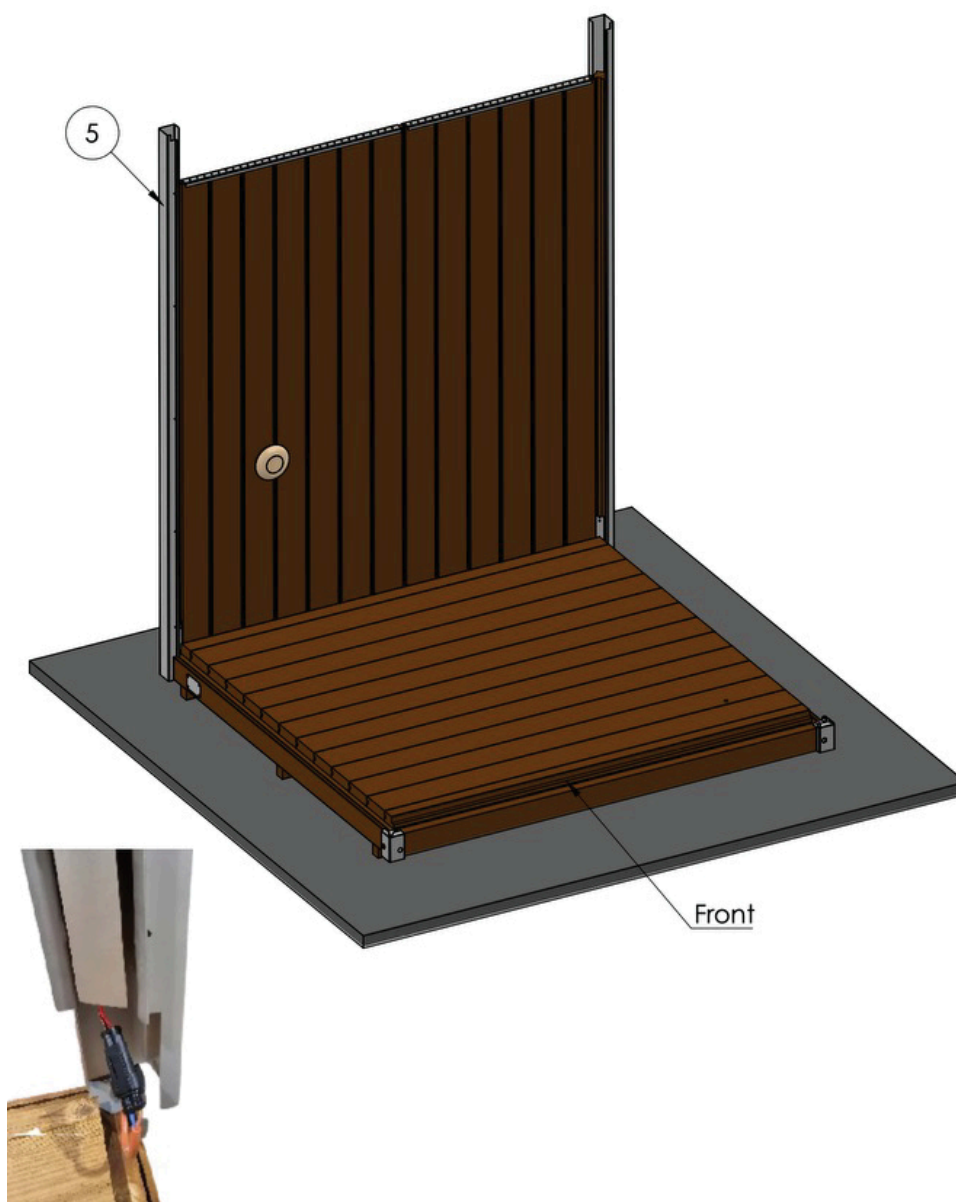
1. Insert back wall module B into the slot at the back of the floor platform.
2. Slide module B towards module A until the tongue and groove joint is fully seated.



Step 5 – Install the back left column

1. Connect the LED cable before seating the column.
2. Insert the back left column on its holder. The edge of the column must also slot into the groove on the side board of back wall module B.

Warning: The LED cable must be connected before the column is seated on the holder.

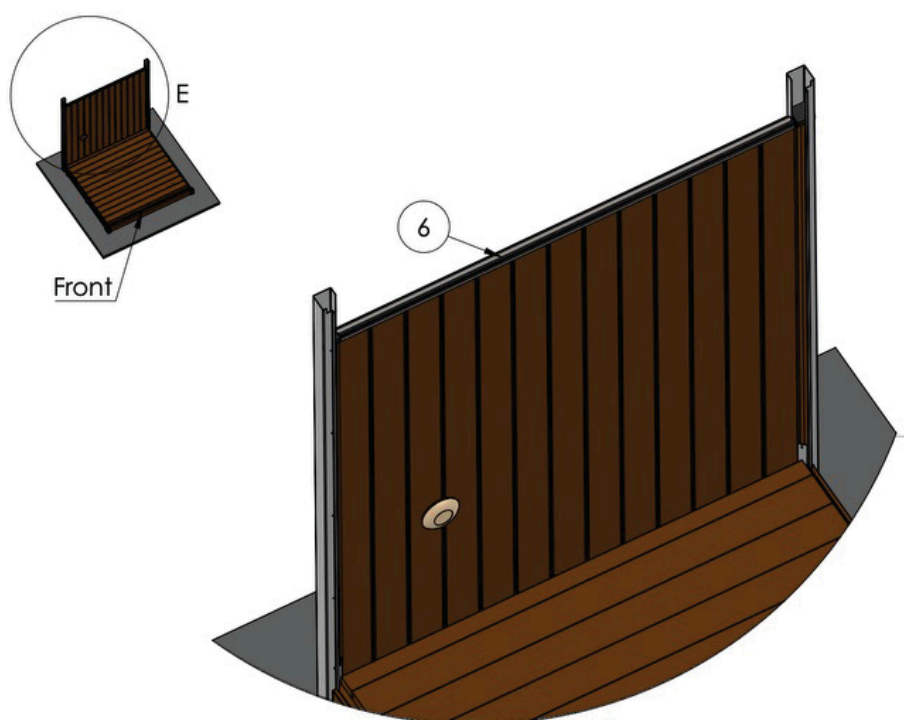


Step 6 – Install the back wall bracket

The back wall bracket comes with pre-attached rubber sealing blocks.

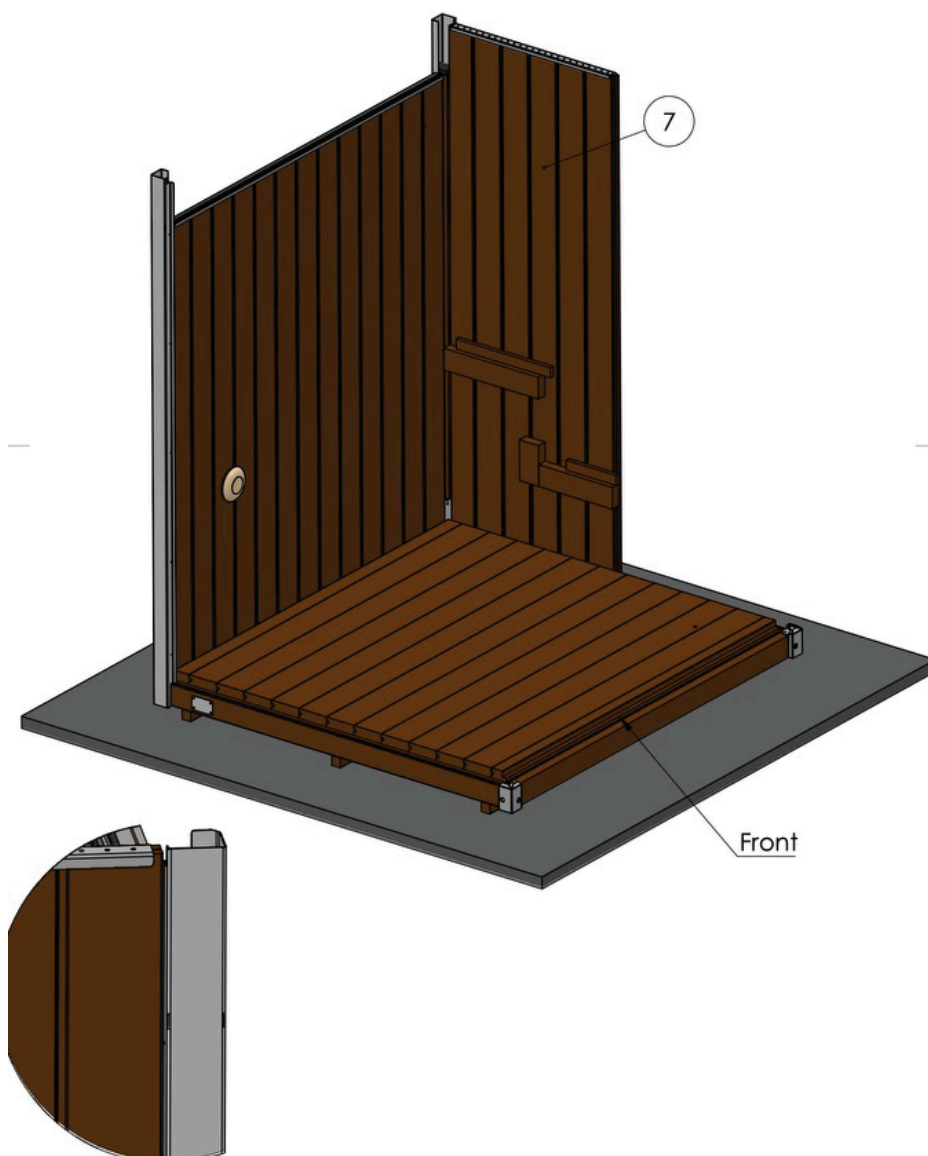
1. Insert the bracket through the top of both columns.
2. Lower the bracket vertically until it touches the wall modules.
3. Twist the bracket into its final position.

Tip: Install the bracket vertically first, then twist it in place. If extra force is needed, tap the ends of the bracket (where the rubber blocks are located) with a rubber hammer.



Step 7 – Install right wall module A

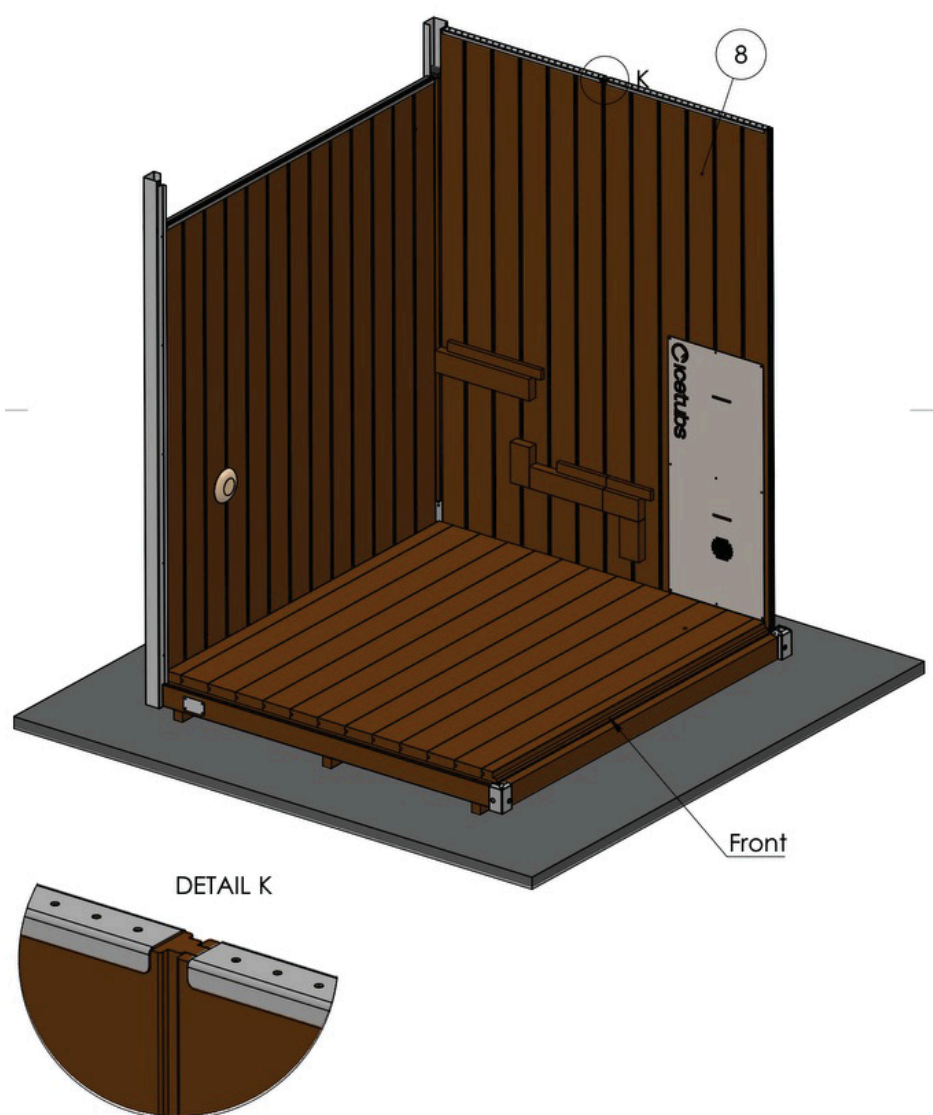
1. Insert right wall module A into the floor platform.
2. Slide the module towards the column until it is fully seated.



Step 8 – Install right wall module B

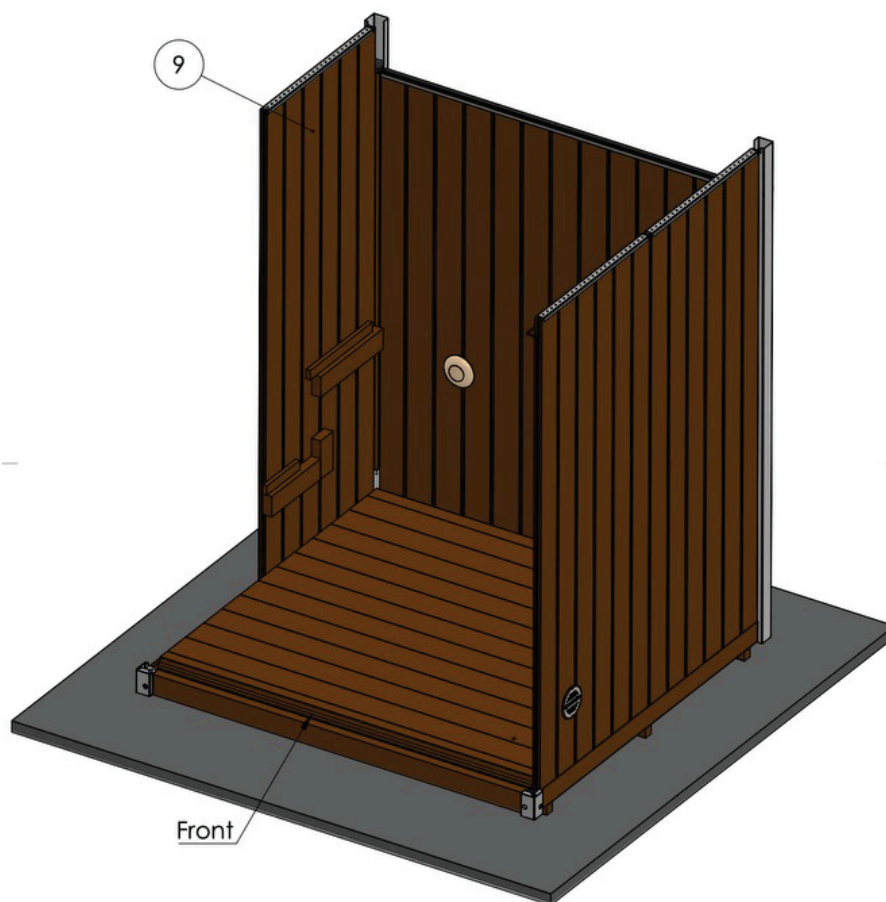
This step is done from inside the sauna.

1. Insert right wall module B into the slot of the floor platform.
2. Slide the module towards the back until the tongue and groove between the wall panels is fully interlocked.



Step 9 – Install left wall module A

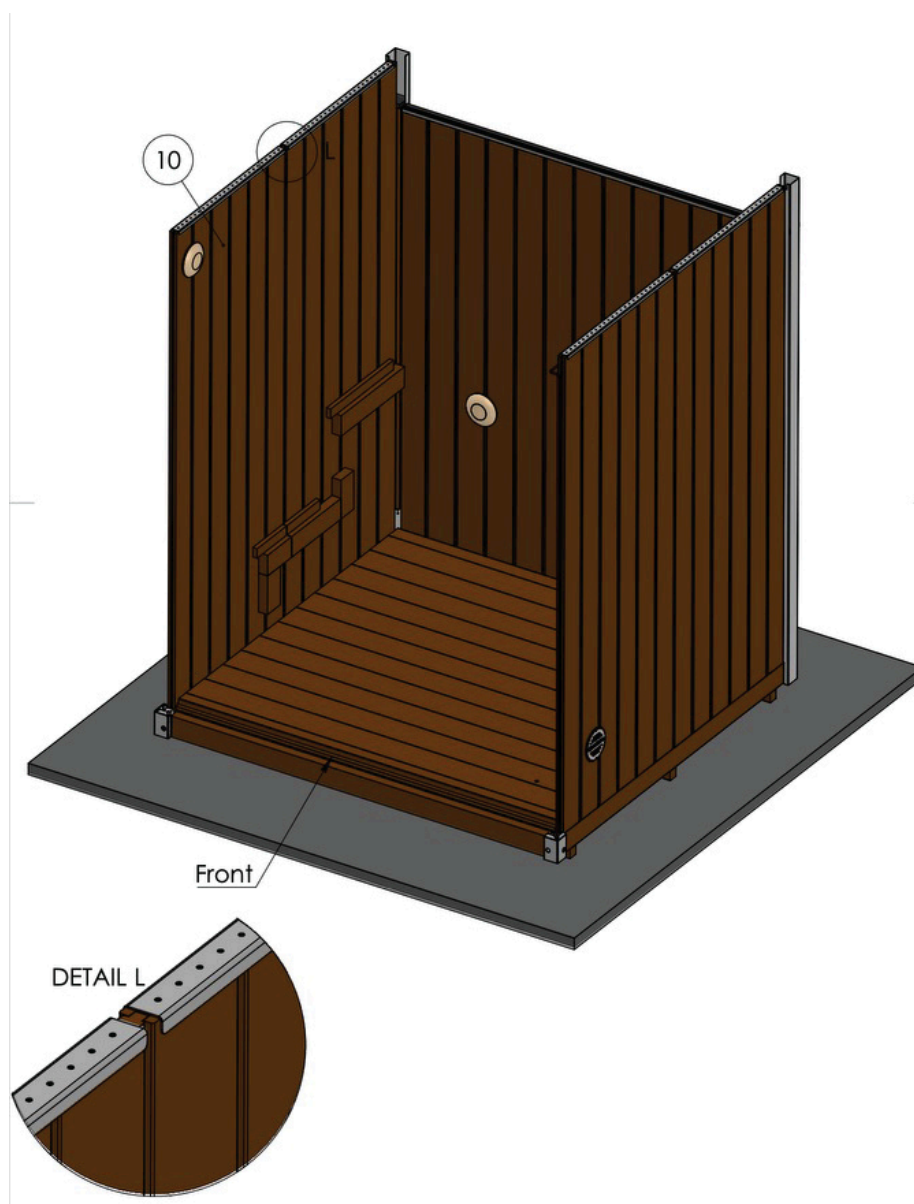
Repeat step 7 on the opposite side using left wall module A (No. 9).



Step 10 – Install left wall module B

Repeat step 8 on the opposite side using left wall module B (No. 10).

Warning: The tongue and groove connection between the panels must be fully seated.



Front wall assembly – choose your route

The front wall can be installed in two sequences, depending on where the sauna is located:

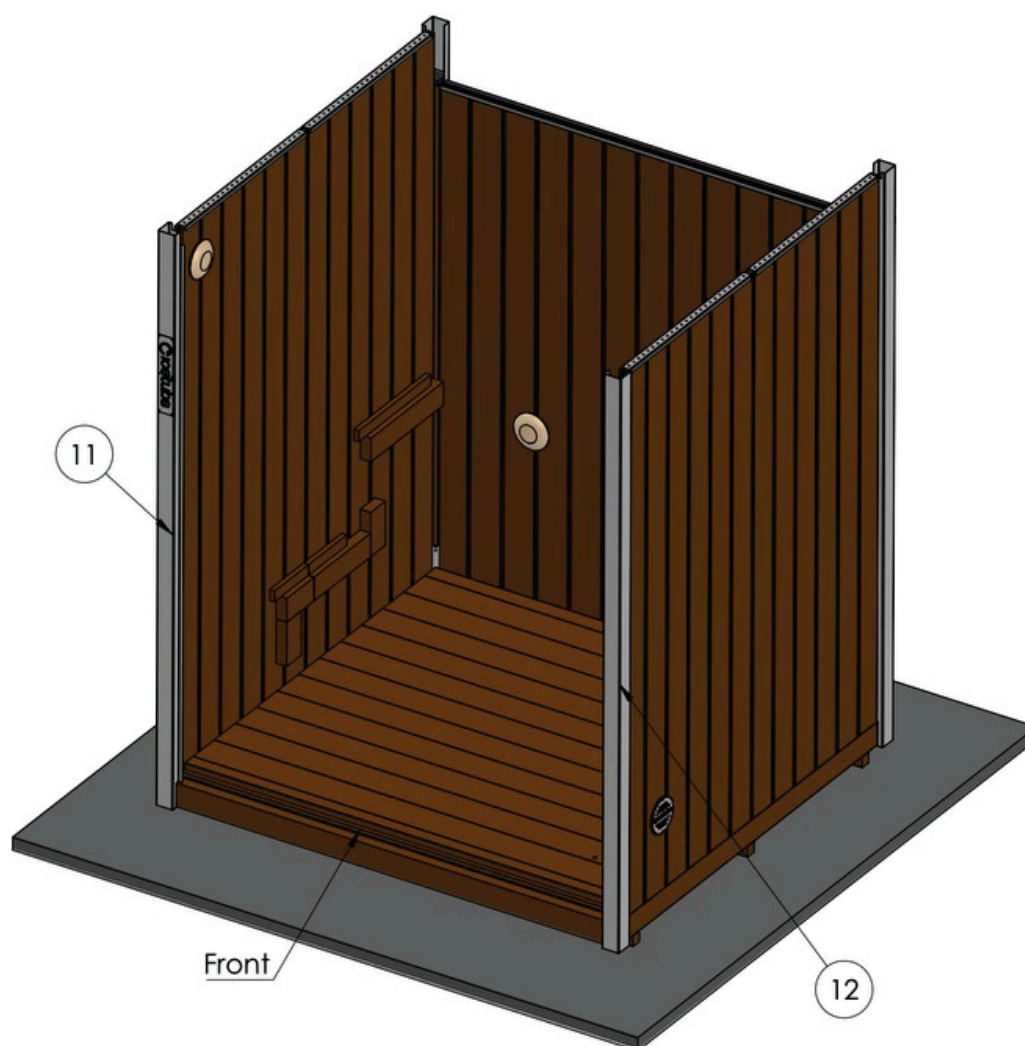
- Outdoor assembly with at least 2.5 m of clearance above the sauna: follow steps 11 to 14.
- Indoor assembly or limited overhead clearance: follow steps 15 to 19.

Only one sequence applies. Skip the other.

Route A – Outdoor assembly (steps 11 to 14)

Step 11 – Install front left and front right columns

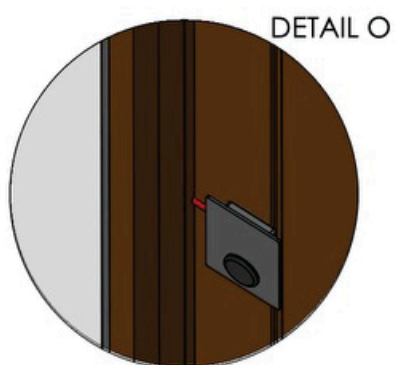
1. Insert the front left column (the one with the logo plate) on its holder on the front of the sauna base.
2. Insert the front right column on its holder on the opposite side.
3. The edge of each column must be fully seated in the wooden wall panel.



Step 12 – Install the door module

1. Place the door module on the left side of the platform. The metal bottom panel positioning holders must fit in the gap between the frame and the floor boards.
2. Slide the door module towards the left column until the edge of the column is fully seated in the wooden frame of the panel.

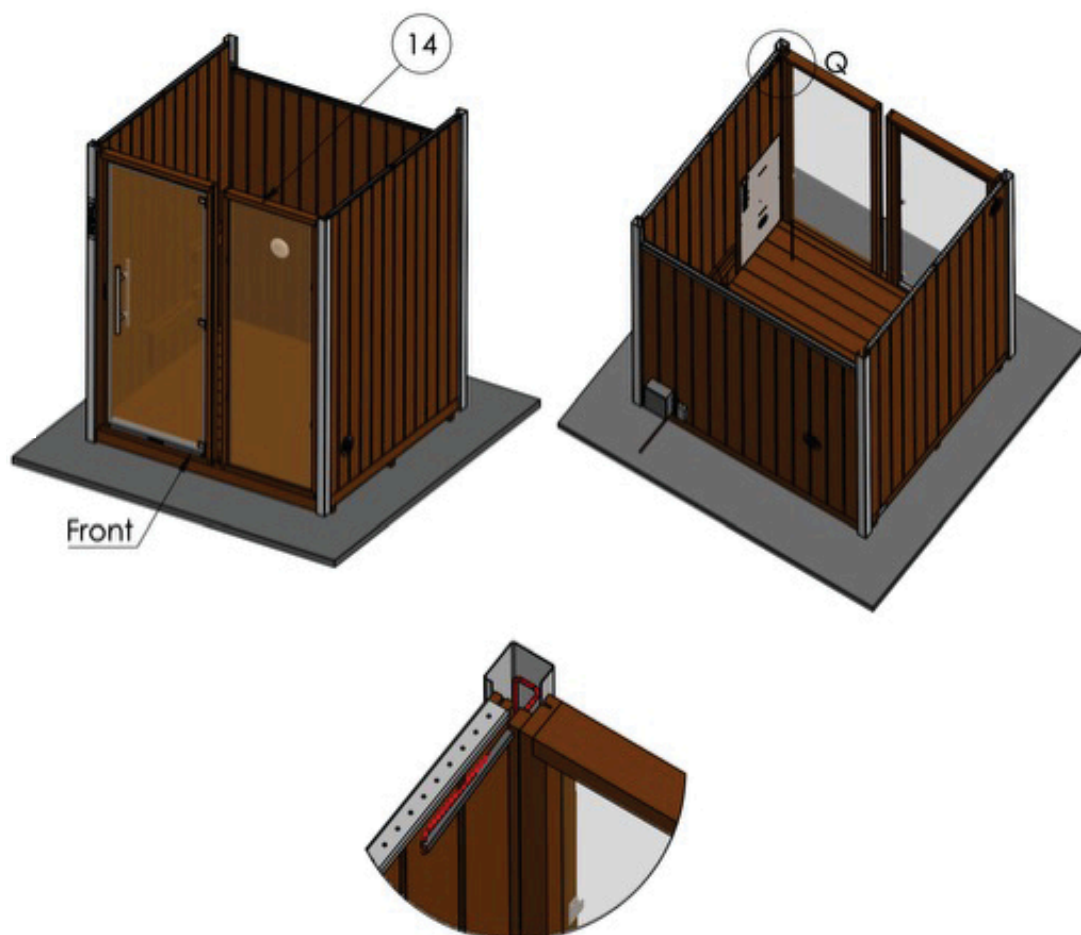
Warning: While installing the door module, route the wire for the HUUM controller through the provided slot.



Step 13 – Install the side glass module

1. Insert the side glass module on the right side of the platform. The bottom positioning brackets must fit in the gap between the frame and the floor boards.
2. Slide the side glass module towards the right column until the edge of the column is fully seated in the wooden frame of the panel.

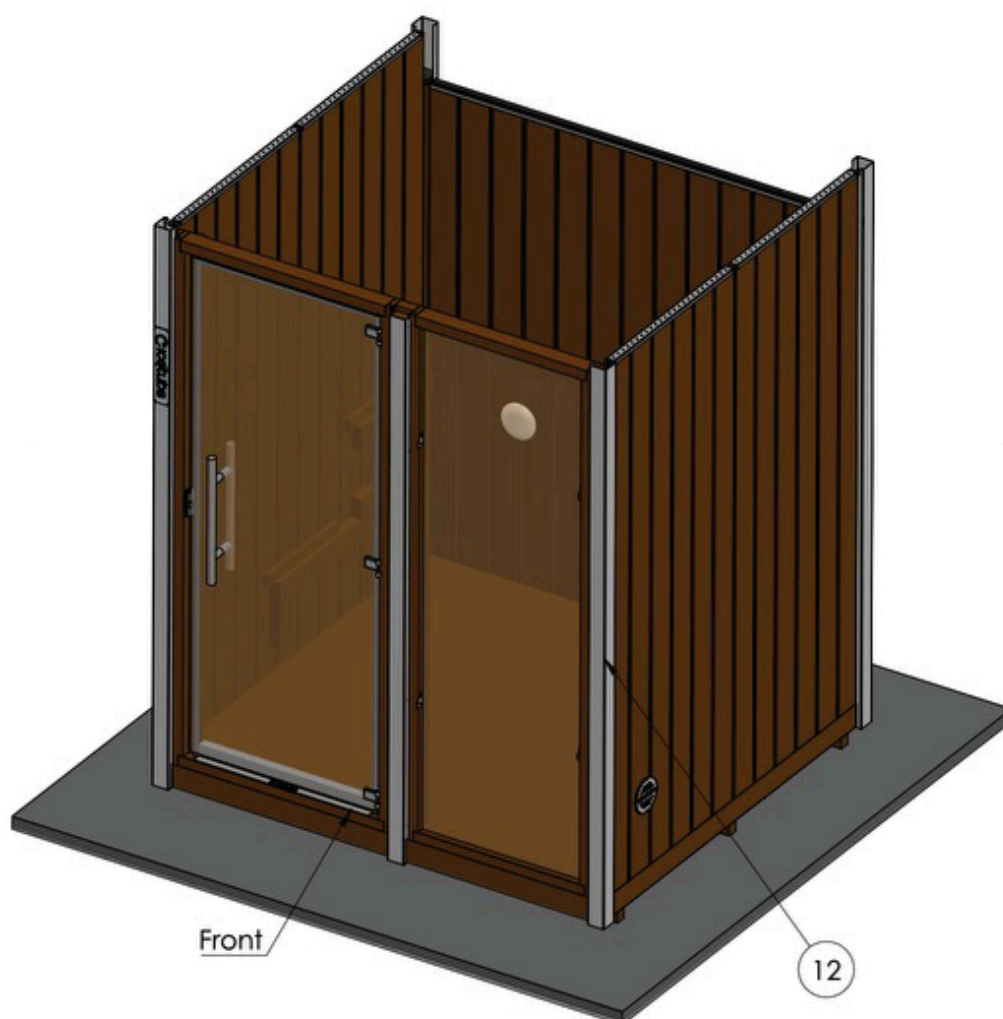
Warning (HUUM only): Route the safety sensor wire through the column and through the cutout in the window frame. After the cable is routed through the frame, insert it into the pre-attached cable holder.



Step 14 – Install the center column

1. Insert the center column between the door module and the side glass module.
2. Push the column from top to bottom into the slots of the wooden frame.

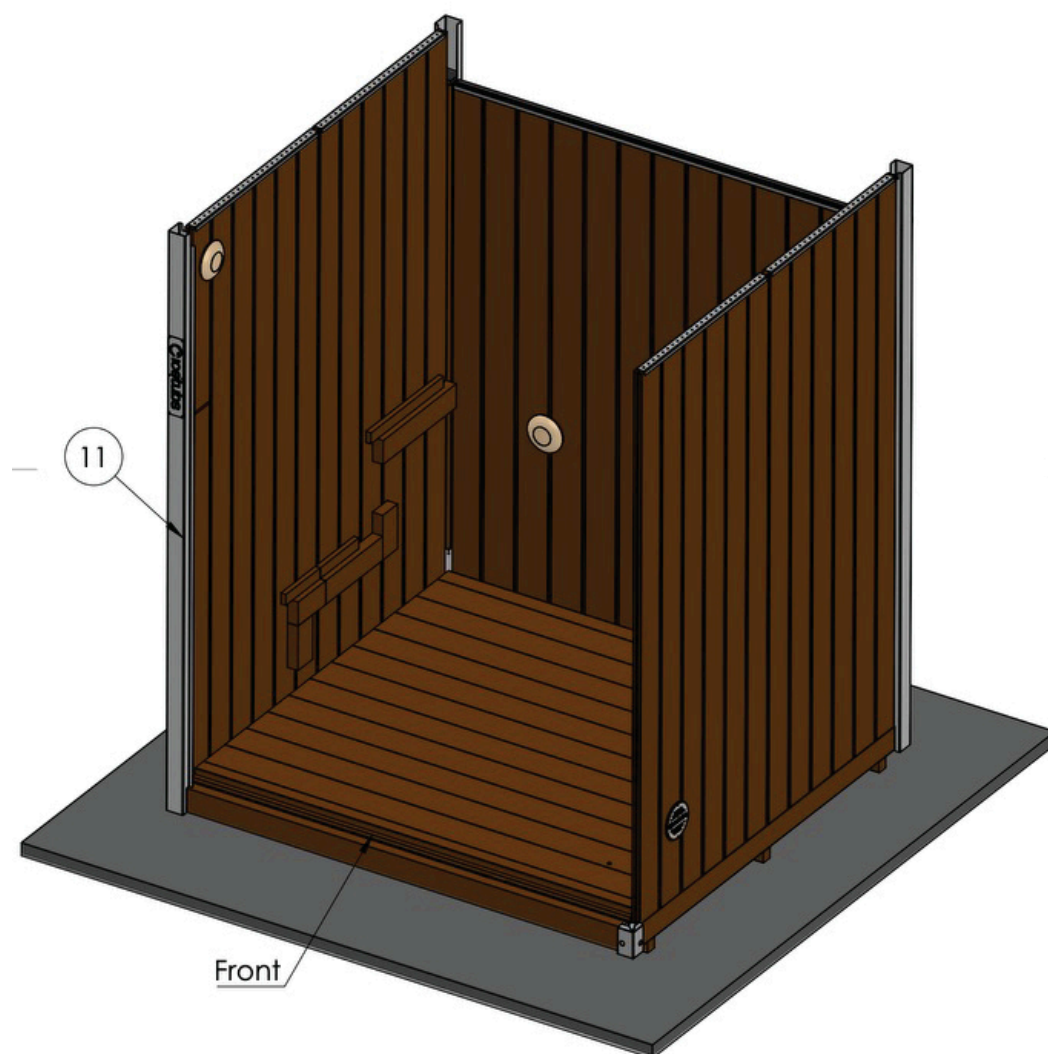
Warning: This step requires a ladder.



Route B – Indoor assembly (steps 15 to 19)

Step 15 – Install the front left column

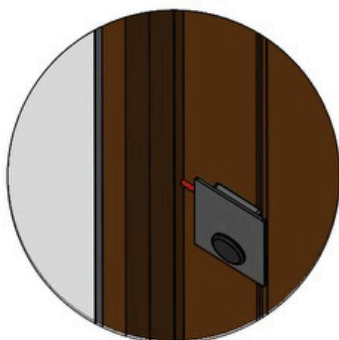
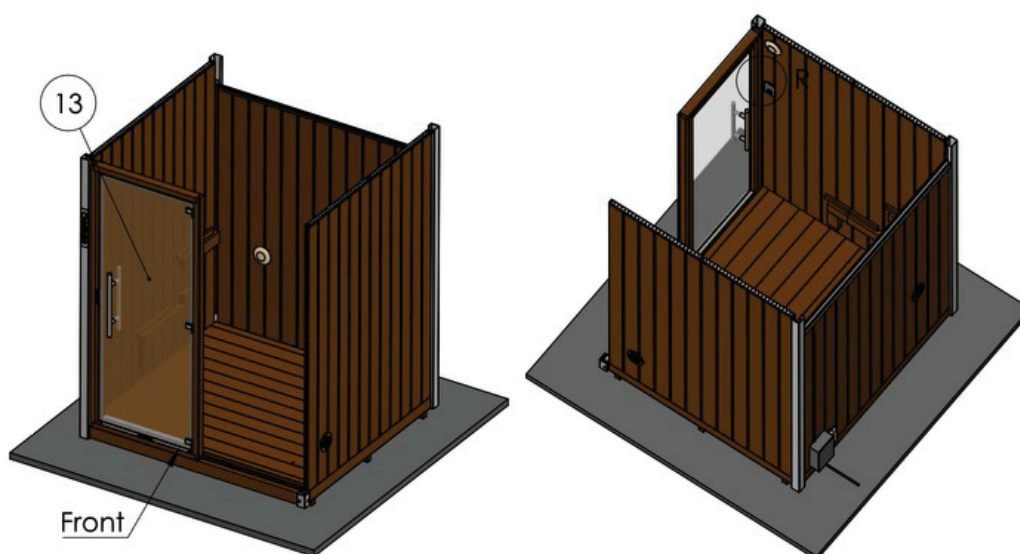
1. Insert the front left column (the one with the logo plate) on its holder in the front left corner of the sauna base.
2. The edge of the column must be fully seated in the wooden wall panel.



Step 16 – Install the door module

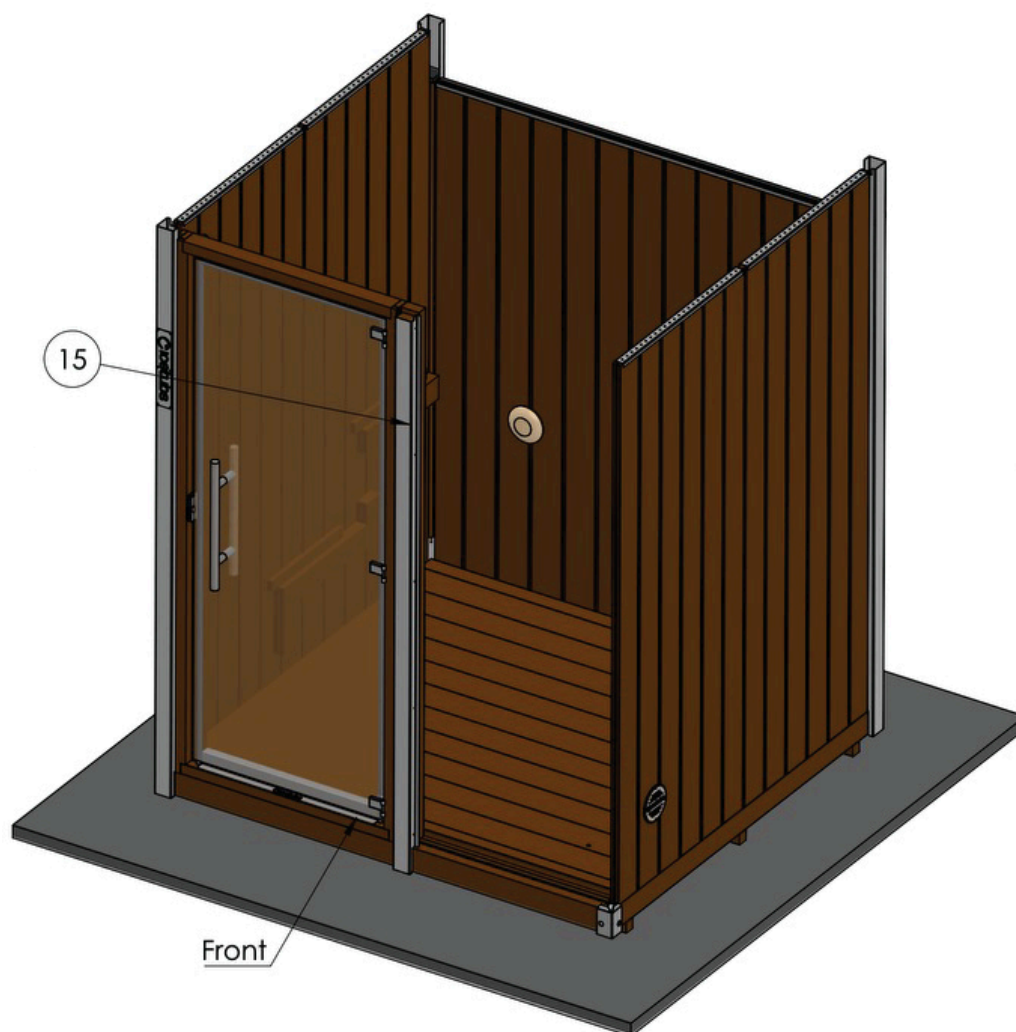
1. Place the door module on the left side of the platform. The metal bottom panel positioning holders must fit in the gap between the frame and the floor boards.
2. Slide the door module towards the left column until the edge of the column is fully seated in the wooden frame of the panel.

Warning: While installing the door module, route the wire for the HUUM controller through the provided slot.



Step 17 – Install the center column

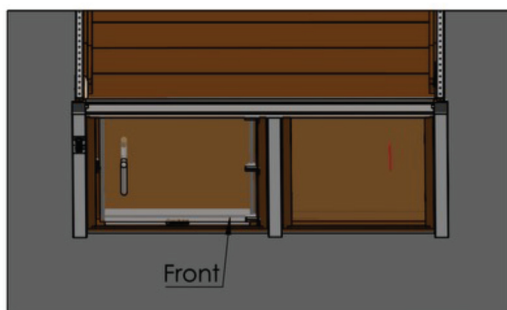
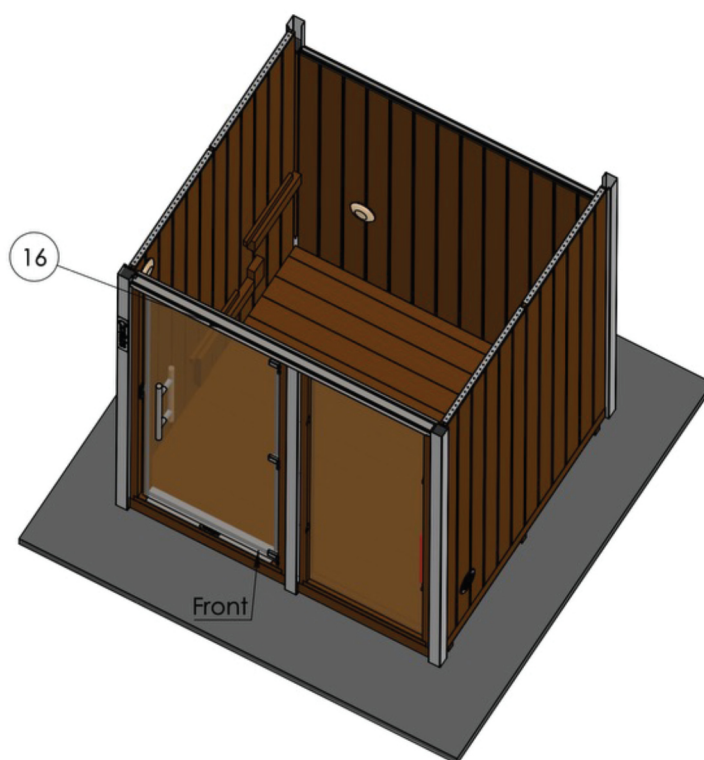
1. Insert the center column alongside the door module.
2. Push the column into the slot of the wooden frame.



Step 18 – Install the side glass module

1. Insert the side glass module on the right side of the platform. The bottom positioning brackets must fit in the gap between the frame and the floor boards.
2. Slide the side glass module towards the center column until the edge of the column is fully seated in the wooden frame of the panel.

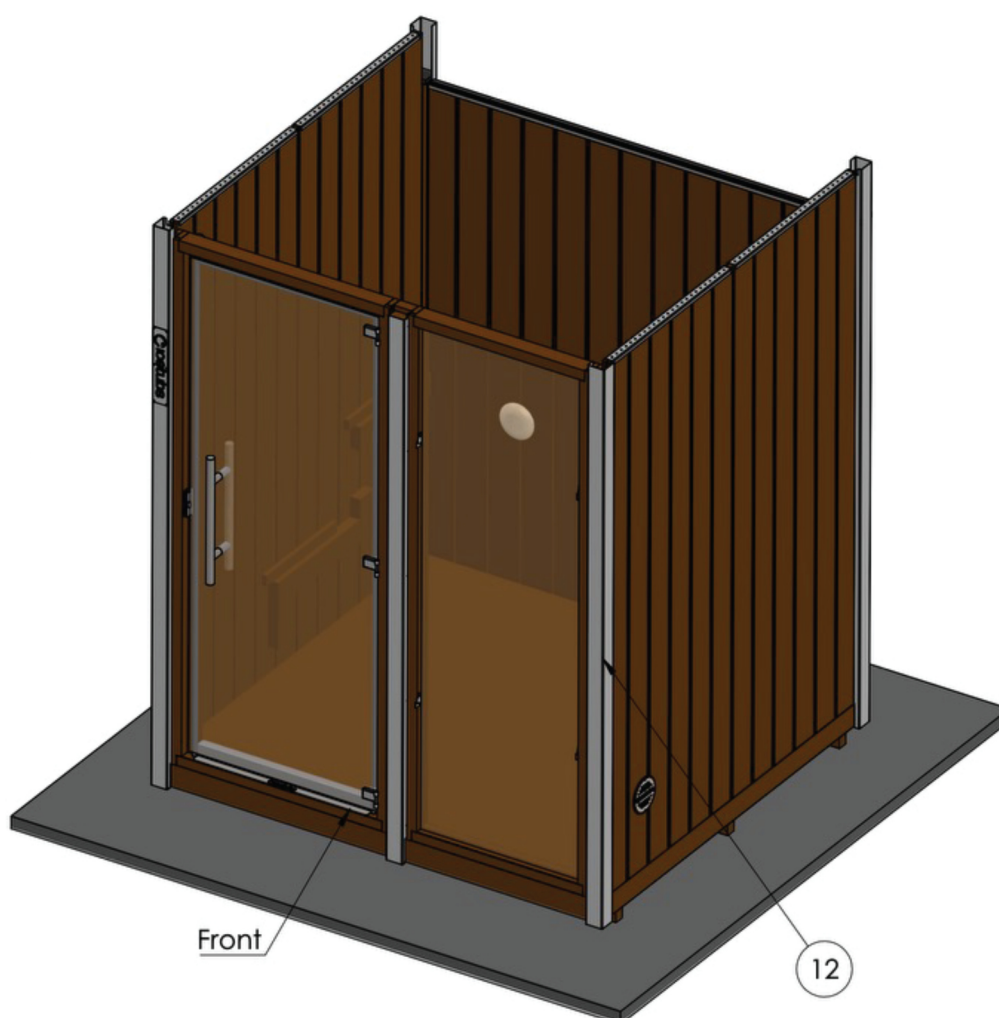
Warning (HUUM only): Route the safety sensor wire through the column and through the cutout in the window frame. After the cable is routed through the frame, insert it into the pre-attached cable holder.



Step 19 – Install the front right column

1. Insert the front right column on its holder.
2. The edges of the column must be fully seated inside the grooves in the wall module and the side glass module.

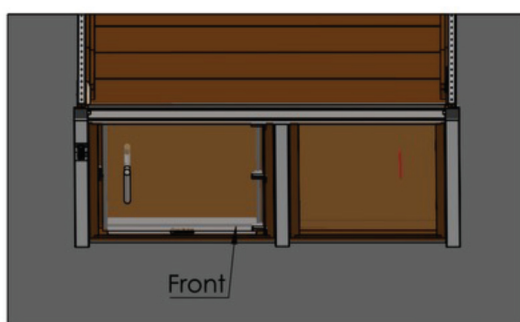
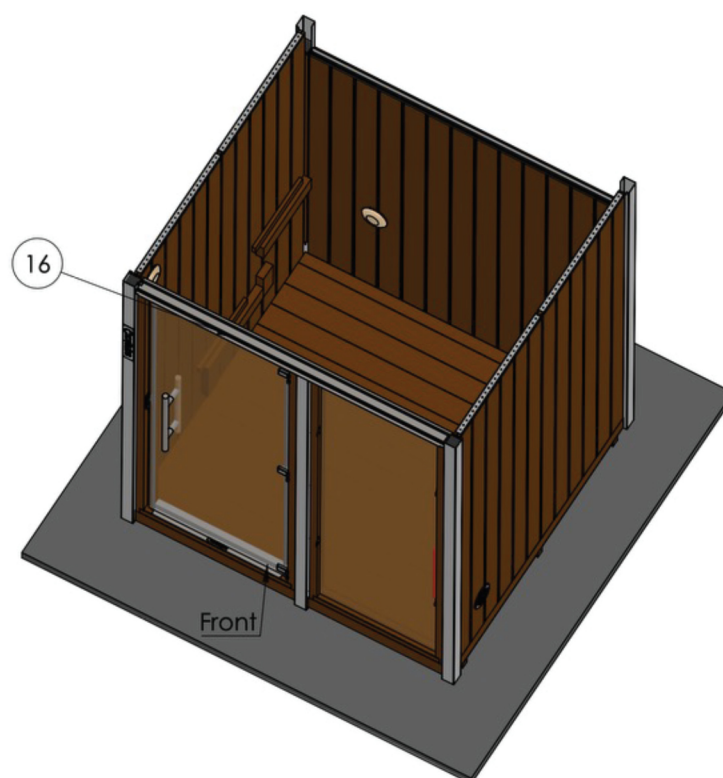
Warning: The wall will need to be flexed to complete this step.



Step 20 – Install the front wall bracket

The front wall bracket comes with pre-attached rubber sealing blocks.

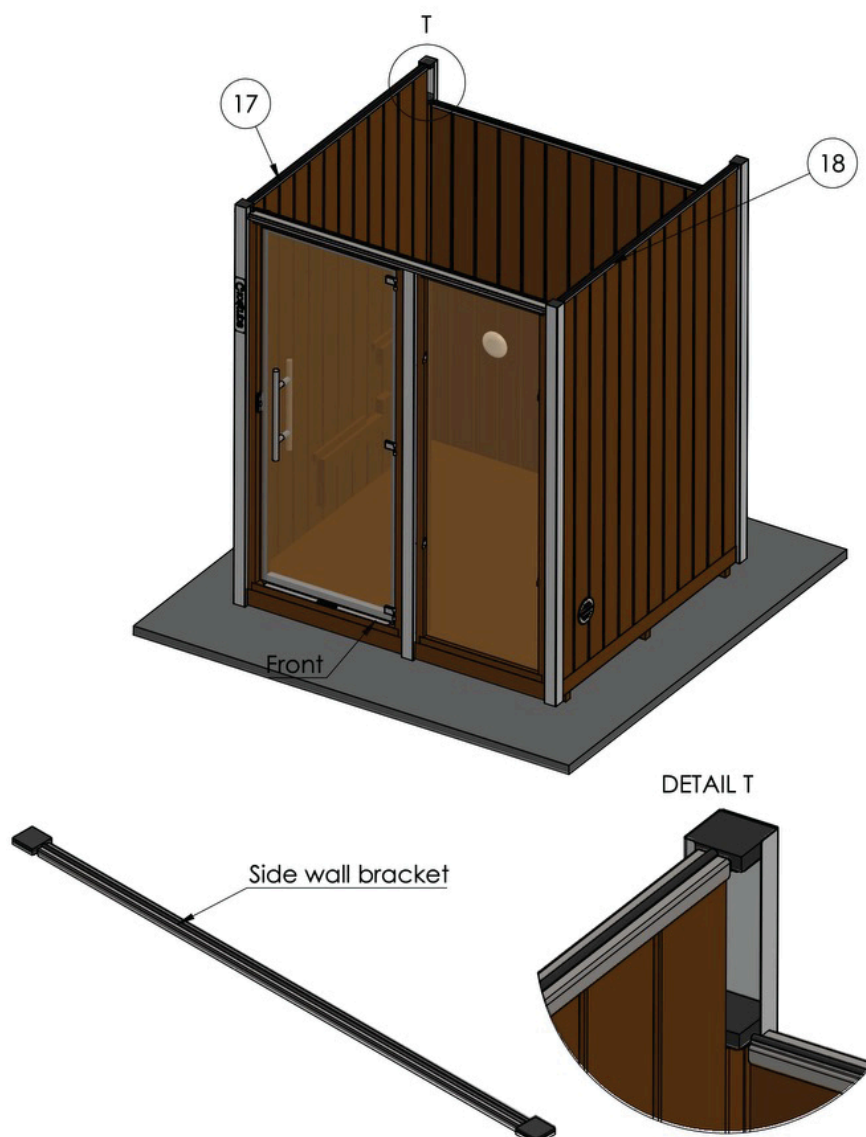
1. Place the front wall bracket on top of the door module and the side glass module.
2. Insert the bracket into the columns.



Step 21 – Install the side wall brackets

Both side wall brackets come with pre-attached rubber sealing blocks and a gasket.

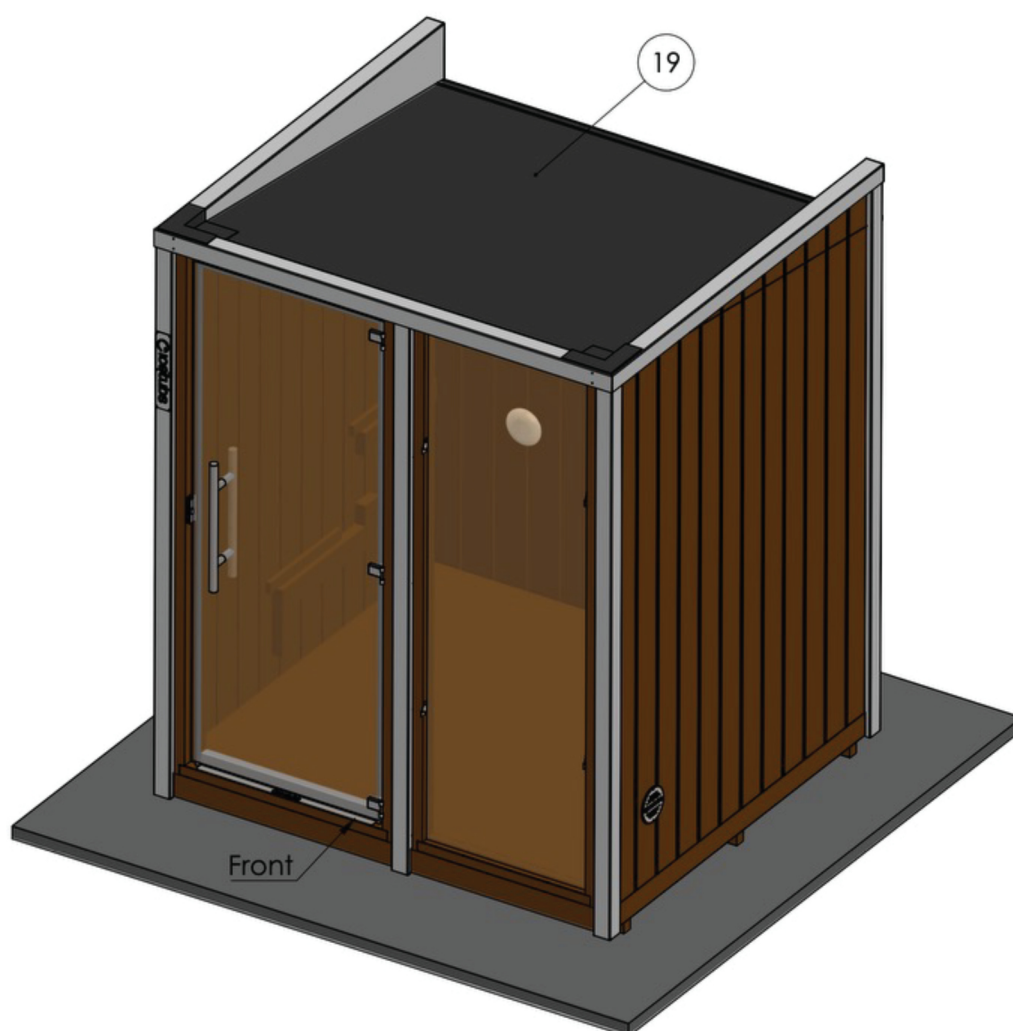
1. Position the right side wall bracket on top of the right side wall and slot it into place.
2. Position the left side wall bracket on top of the left side wall and slot it into place.



Step 22 – Install the roof module

Warning: This step requires 3 to 4 people. Two people should lift the roof from the outside. One or two people should support the weight from inside the sauna.

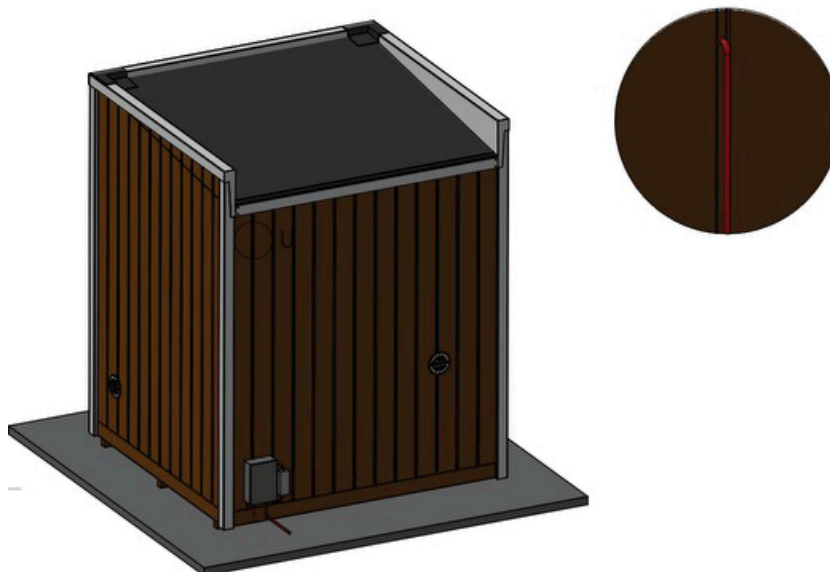
1. Place the roof assembly on top of the sauna.
2. The roof can be lifted on from any direction, depending on where the sauna is located. For easiest installation, slot the front corners of the roof module in first.



Step 23 – Route the bench sensor cable

The bench sensor cable is pre-wired to the main control unit.

1. Route the cable through the hole in the wall.
2. Place the cable cover on top of the cable.
3. Mount the cable cover with the provided screws.



Step 24 – Connect the bench sensor and safety sensor

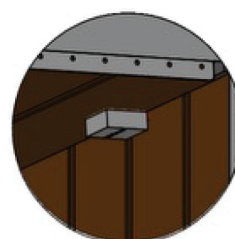
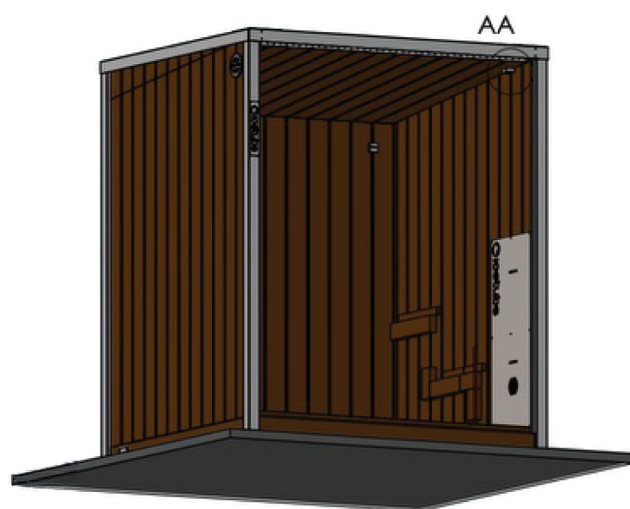
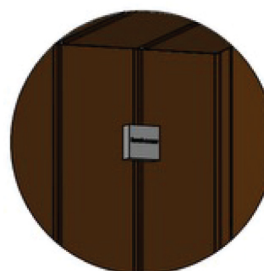
Bench sensor:

1. Connect the bench sensor to the pre-routed cable.
2. Cut the cable to the correct length so no slack is left.
3. Install the metal cover.

Safety sensor:

1. Connect the safety sensor to the pre-wired cable.
2. Mount the sensor on the roof module, directly above the heater.
3. Place the metal cover on the sensor.

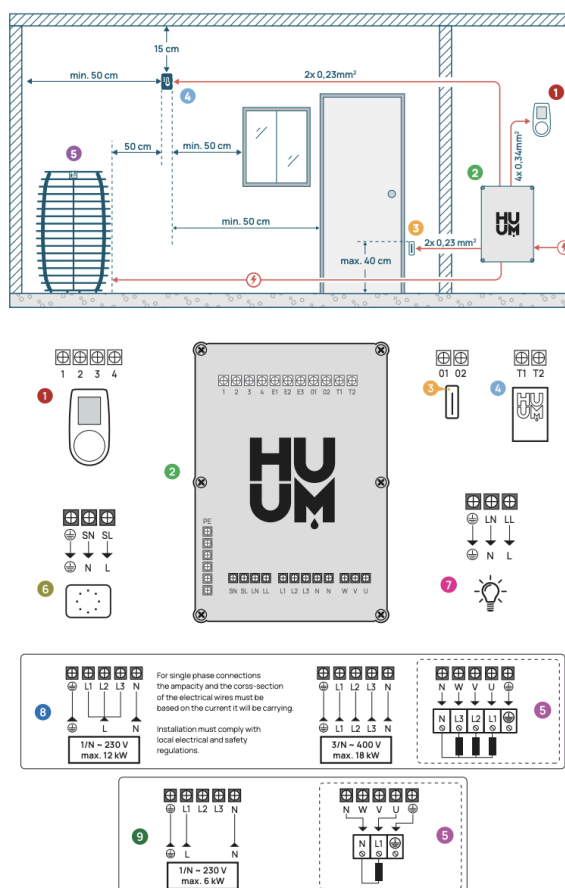
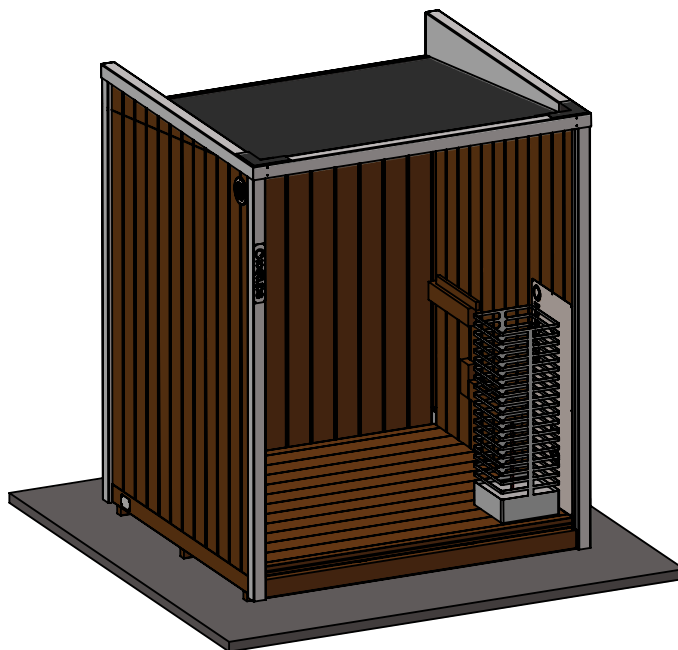
Warning: All cable connections must follow the HUUM heater manual.



Step 25 – Connect the HUUM heater

1. Tilt the heater on its side to access the connection area.
2. Connect the heater to the pre-installed cable.

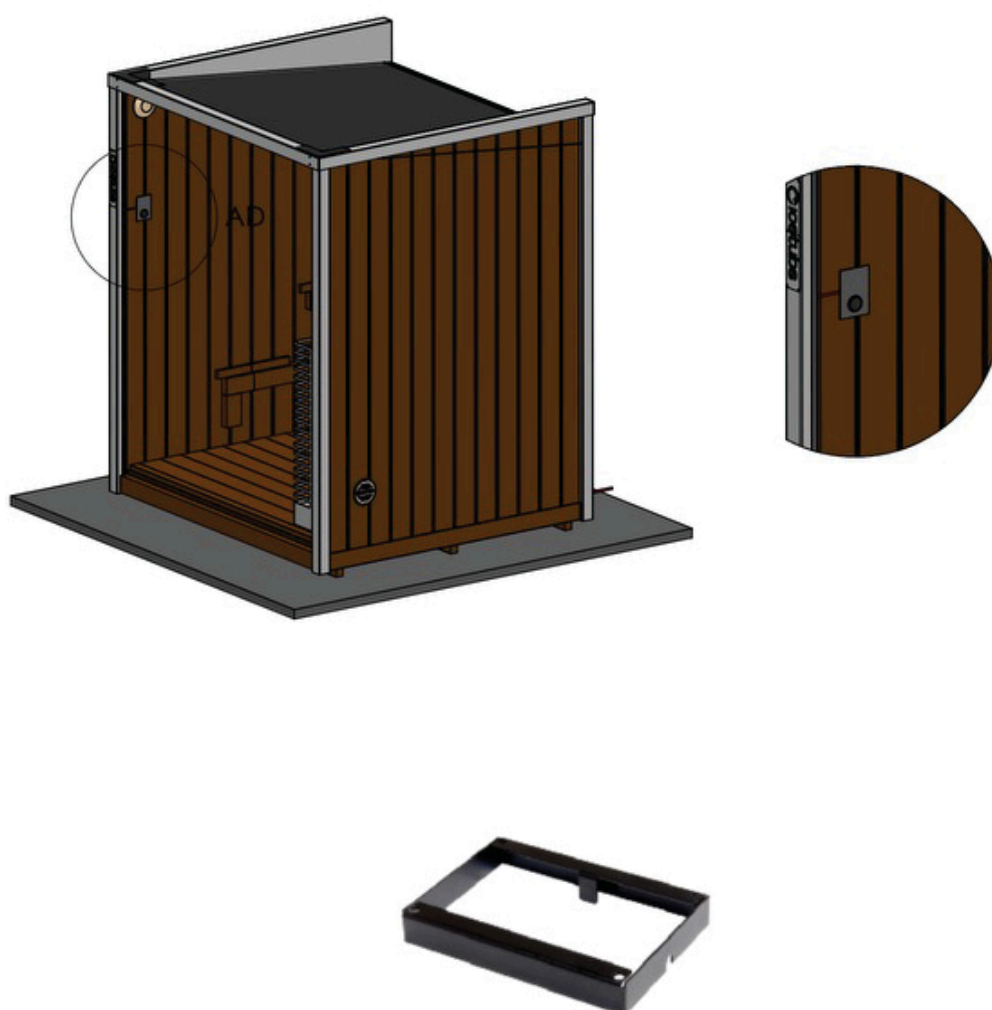
Warning: All cable connections must follow the HUUM heater manual.



Step 26 – Install the control panel

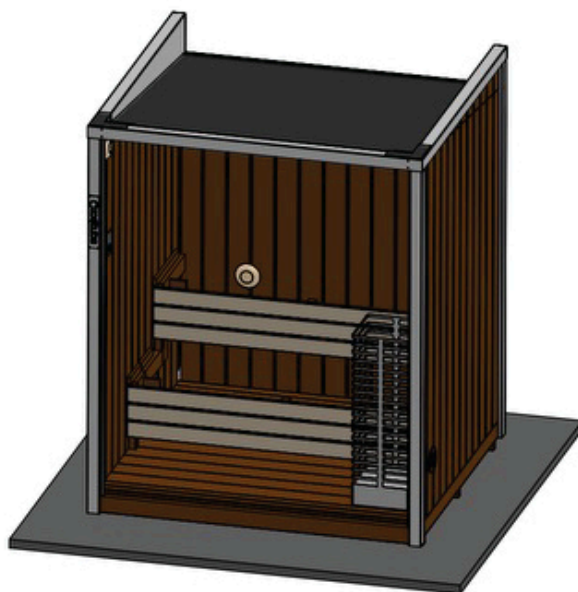
1. Mount the control panel surface frame to the wall, directly next to the door frame, using the provided screws.
2. Connect the panel cables according to the HUUM manual.
3. Install the glass control panel on the surface frame using the provided screws.

Warning: All cable connections must follow the HUUM heater manual.



Step 27 – Install the lower benches

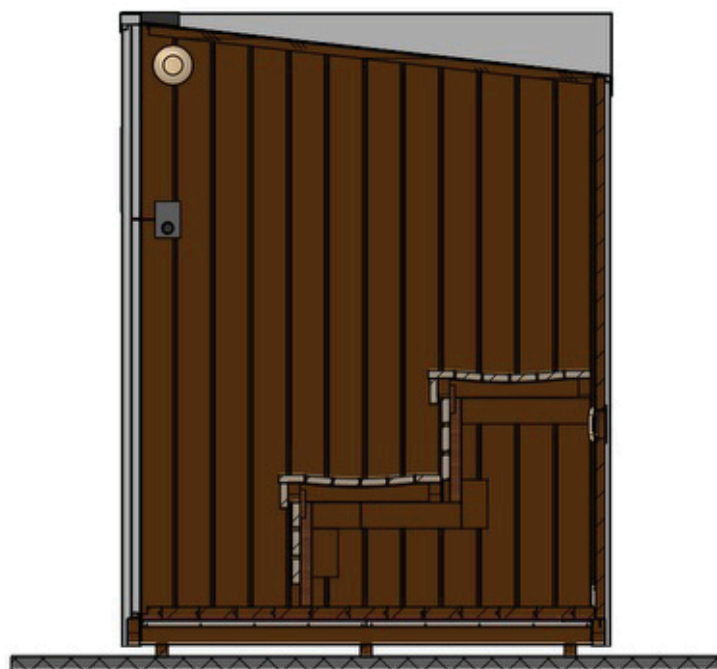
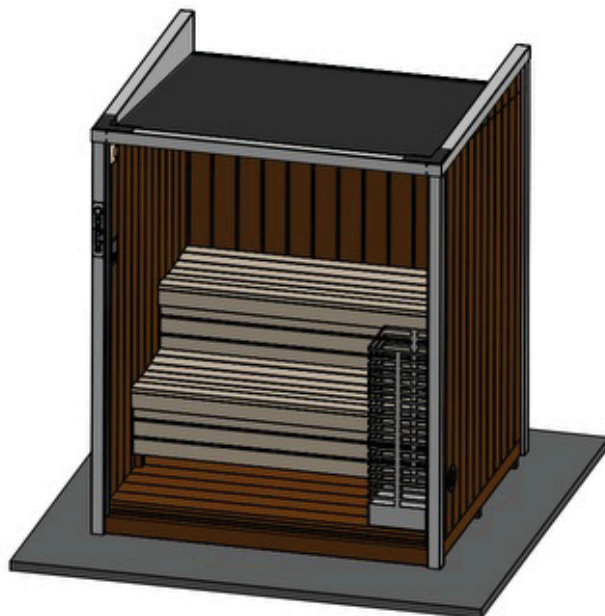
Install both lower bench module A units (No. 21) on their holders and push them against the frame.



Step 28 – Install the upper benches

The lower and upper benches use identical bench modules.

1. Place both benches roughly on the pre-attached frames.
2. Adjust their position and lock the vertical modules in place.



Assembly complete

Your IceSauna assembly with the HUUM Steel heater is now complete. Before first use, check that:

- All tongue and groove connections are fully seated
- All brackets are locked in place
- All cable covers are mounted
- The heater, bench sensor, and safety sensor connections match the HUUM manual
- The control panel is mounted and connected

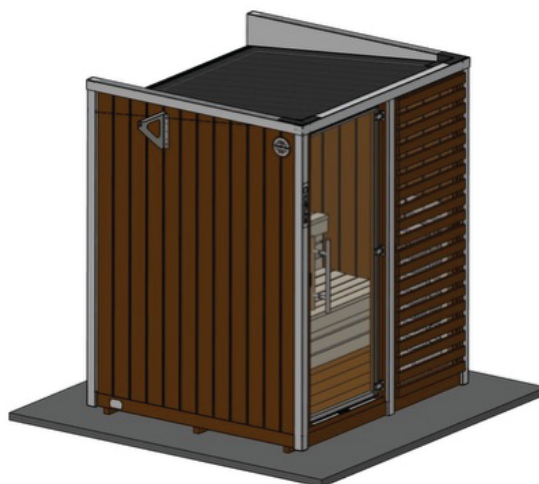
5.4 Installation The Sauna Kit

Only the thermo-hygrometer and the timer need to be installed. Screw them into the wall with a Phillips screwdriver. Always mount them on the wall opposite the heater. This gives a more accurate reading, protects the accessories from direct heat, and prevents moisture from entering the hourglass timer.

5.5 Installation the Sauna Waterfall Bucket

Step 1 – Install the left bracket

Hold the left bracket against the sauna wall in its intended position. Mark the screw holes with a pencil if needed. Fix the bracket to the wall with 5 screws.



Step 2 – Install the right bracket

Use the bucket axis to position the right bracket at the correct distance from the left bracket. Slide the axis through the left bracket and let it extend across to where the right bracket will sit. Position the right bracket so the axis fits cleanly into its mounting hole, then fix the bracket to the wall with 5 screws. This step makes sure both brackets are perfectly aligned for the bucket.



Step 3 – Install the Waterfall bucket

Remove the axis from the brackets. Place the bucket between the left and right brackets, aligning the holes in the bucket with the holes in the brackets. Slide the axis from outside the left bracket, through the bucket, and into the right bracket until it sits flush.

Check that the bucket tips freely without rubbing against the brackets.



Step 4 – Install the piping of the water supply

Connect the hose to the top of the piping. Hold the piping against the wall above the bucket and check that the hose reaches the bucket cleanly without tension. Mark the positions for the two piping holders, then screw the holders vertically into the sauna wall. Place the piping into the holders. Test the installation by filling the bucket with water and tipping it manually before connecting to a permanent water supply.



Operation Sauna - Harvia

The Harvia Cilindro PC90 is a 9 kW floor-standing electric heater with an integrated mechanical timer and thermostat. No separate control panel is needed. This chapter covers what you need to know for safe daily operation. For full heater details, the original Harvia manual is included with the product.

Read this chapter carefully before turning on the heater for the first time.

6.1 Safety & Warnings

- Always check the sauna room and heater before switching on. Nothing should be placed on, above, or near the heater.
- The heater may be used only when it is correctly filled with stones. An empty or sparsely filled heater is a fire hazard.
- Do not cover the heater at any time. Covering causes fire hazard.
- Do not touch the heater or stones while the heater is hot. They cause burns.
- Do not use a water hose to create steam. Use only a ladle and tap water.
- Do not pour undiluted sauna essences or oils directly onto the stones. They can ignite.
- Keep children away from the heater. Do not leave children unattended in the sauna.
- Do not hang clothes or textiles in the sauna to dry. This is a fire hazard and moisture can damage electrical components.
- Do not enter the sauna under the influence of alcohol, medication, or drugs.
- Do not sleep in a heated sauna.
- The highest allowed temperature for wall and ceiling surfaces in the sauna room is 140°C.
- If the heater does not behave as expected, stop use and contact Icetubs Service (see Chapter 10.4).

6.2 Precautions

- Inspect the heater before each use. Check that nothing has fallen into the stones and that no heating elements are visible between the stones.
- On first use, both the heater and the stones will emit a slight smell. Ventilate the sauna room well until the smell disappears.
- Allow about one hour for a properly insulated sauna room to reach temperature. A suitable sauna temperature is 65 to 85°C.
- Rearrange the stones at least once a year, and more often with frequent use. Remove broken pieces and replace stones that have disintegrated.
- Stones settle most within the first two months. Check during this period that no heating elements become visible.
- Use only sauna stones approved by Harvia: peridotite, olivine diabase, olivine, or vulcanite, 5 to 10 cm in diameter. Wash the stones before piling.
- Do not place any objects inside the stone space that could change the airflow through the heater.
- Switch the heater off after sauna session. Leaving it on for a short time after use helps the wooden parts dry.

6.3 Electrical Installation

The heater must be connected to the mains by a certified electrician according to national regulations.

- Power supply: 400 V 3N~ / 50 Hz (three-phase).
- Heater output: 9 kW.
- Connection cable: rubber cable type H07RN-F or equivalent.
- The heater is semi-stationary and connects to a splash-proof junction box on the sauna wall. Maximum junction box height from the floor is 500 mm.
- Check that the maximum amperage of the main fuse matches the heater parameters.
- Do not use PVC-insulated cable for the heater connection. Heat will damage it.
- A layer of fireproof thermal insulation of at least 50 mm is required under the sauna floorboards in the heater area.

Full electrical details, wiring diagrams, and fuse sizing are provided in the original Harvia installation manual included with the product.

6.4 Inspection

Before switching the heater on, confirm:

- The heater is correctly filled with stones and no heating elements are visible.
- Nothing is placed on, above, or near the heater.
- Minimum safety distances to walls, ceiling, and combustible materials are respected (see original Harvia manual).
- The sauna room door closes and opens outwards as intended.
- The sauna room is properly ventilated.
- The timer and thermostat knobs turn smoothly.

6.5 Display Operation

The Harvia Cilindro PC90 has two mechanical knobs on the base of the heater:

- **Timer knob** - sets the on-time for the heater. (Left knob)
- **Thermostat knob** - sets the temperature. (Right knob)

The timer knob has two sections:

- **Section A (0 to 4 hours)** - immediate operation. The heater starts heating as soon as the knob is turned into this section.
- **Section B (0 to 8 hours)** - pre-setting (delayed start). The heater waits before it starts heating, then runs for about four hours.

6.5.1 Turning the heater on

Turn the timer knob into the “on” section (section A, 0 to 4 hours). The heater starts heating immediately. Set the thermostat to the desired temperature.

6.5.2 Pre-setting a delayed start

Use pre-setting when you want the sauna to be ready at a specific time.

1. Turn the timer knob into the “pre-setting” section (section B, 0 to 8 hours).
2. The timer counts down. When it reaches zero, the knob moves into the “on” section and the heater starts heating.
3. The heater then runs for about four hours.

Example: You want to use the sauna in three hours. The sauna needs about one hour to heat up. Set the timer to 2 in the pre-setting section. After two hours the heater starts, and after one more hour the sauna is ready.

6.5.3 Setting the temperature

Turn the thermostat knob to a setting between minimum and maximum. A higher setting gives a higher sauna temperature. The ideal setting depends on the sauna room size, insulation, and personal preference. Find your preferred setting by trial.

If the sauna does not get warm enough, turn the thermostat higher. If it gets too warm, turn it lower.

6.5.4 Turning the heater off

The heater switches off automatically when the timer returns to zero. You can also switch it off at any time by turning the timer knob to zero yourself.

Always check after use that the timer is at zero and the heater has stopped heating.

6.5.5 Throwing water on the stones

Use only clean tap water. Throw water gently onto the stones with a ladle. The water should be room temperature. Do not use seawater, hard water, or water with a high iron content: it damages the heater and stones over time.

For softer steam, throw water onto the side of the heater. For sharper steam, throw it directly on top of the stone pillar.

Operation Sauna - HUUM

The HUUM Steel 9 kW is a floor-standing electric heater controlled by a separate UKU Glass control panel mounted outside the sauna room. The UKU system also supports optional WiFi control via the HUUM mobile app. This chapter covers what you need to know for safe daily operation. For full heater and control panel details, the original HUUM manuals are included with the product.

Read this chapter carefully before turning on the heater for the first time.

7.1 Safety & Warnings

- Always check the sauna room and heater before switching on. Nothing should be placed on, above, or near the heater.
- The heater may be used only when it is correctly filled with stones. An empty or sparsely filled heater is a fire hazard.
- Do not cover the heater at any time. Covering causes fire hazard.
- Do not touch the heater or stones while the heater is hot. They cause burns.
- Do not use a water hose to create steam. Use only a ladle and tap water.
- Do not pour undiluted sauna essences or oils directly onto the stones. They can ignite.
- Keep children away from the heater. Do not leave children unattended in the sauna.
- Do not hang clothes or textiles in the sauna to dry. This is a fire hazard and moisture can damage electrical components.
- Do not enter the sauna under the influence of alcohol, medication, or drugs.
- Do not sleep in a heated sauna.
- Always physically check the sauna room before starting the heater, also when using the HUUM mobile app.
- If the heater does not behave as expected, stop use and contact Icetubs Service (see Chapter 10.4).

7.2 Precautions

- Inspect the heater before each use. Check that nothing has fallen into the stones and that the upper ends of the heater and the air tunnel are not visible between the stones.
- On first use, both the heater and the stones will emit a slight smell. Ventilate the sauna room well until the smell disappears.
- Allow about one hour for a properly insulated sauna room to reach optimal sauna session temperature. A suitable sauna temperature is 65 to 85°C.
- Check the condition of the stones at least every 6 months. Remove broken pieces and replace stones that have disintegrated. With frequent use, check more often.
- Use gloves when laying or rearranging the stones.
- Use only sauna stones approved by HUUM, 5 to 13 cm in diameter. Lay the stones one by one. Do not pour or throw them into the heater.
- The air tunnel inside the heater must remain open. Do not fill it with stones.
- Make sure no heating elements are visible between the stones. Visible elements cause additional heat radiation on flammable surfaces and invalidate the safety distances.
- Switch the heater off after use. Leaving it on for a short time after a session helps the wooden parts dry.

7.3 Electrical Installation

The heater must be connected to the mains by a certified electrician according to national regulations and the requirements of standard EN 60335-2-53:2011.

- Power supply: 400 V 3N~ / 50 Hz (three-phase).
- Heater output: 9 kW.
- Check that the maximum amperage of the main fuse matches the heater parameters.
- The UKU Glass control panel is mounted outside the sauna room, next to the sauna door.
- The safety sensor must be installed inside the sauna according to the HUUM manual. Correct sensor placement is essential for safe operation.
- The power cable enters at the bottom of the heater.
- Do not connect the heater through a residual current device (RCD) unless the device is designed for heater use. A standard RCD may trip due to slight moisture absorbed by the heating elements during storage. This disappears after the first uses.

Full electrical details, wiring diagrams, sensor placement, and fuse sizing are provided in the original HUUM installation manual included with the product.

7.4 Inspection

Before switching the heater on, confirm:

- The heater is correctly filled with stones, the air tunnel is open, and no heating elements are visible.
- Nothing is placed on, above, or near the heater.
- Minimum safety distances to walls, ceiling, and combustible materials are respected (see original HUUM manual).
- The sauna room door closes and opens outwards as intended.
- The sauna room is properly ventilated.
- The UKU Glass panel powers on and shows the current sauna temperature.

7.5 Display Operation

The HUUM Steel is controlled by the UKU Glass panel, a wall-mounted control with a single rotary-press button. You turn the button to change values, and you press the button to confirm, start, or stop. The display stays active during heating and goes to sleep when the heater is off.

7.5.1 Main screen

The main screen shows:

- **Current sauna temperature** in the middle of the screen (large digits).
- **Target temperature** in the upper right corner (smaller digits).
- **Heating symbol** above the temperature when the heater is actively heating.
- **Relative humidity** in the lower left corner (approximate when using only the safety sensor, measured when a bench sensor is installed, shown next to a drop icon).
- **Timer line** (only visible when a delayed start is scheduled).

7.5.2 Turning the heater on and off

1. Short press the button to wake the panel.
2. Turn the button to set the target temperature.
3. Short press the button again to start heating. The heating symbol appears above the temperature.
4. Short press the button once more to stop heating before the time ends.

The heater also switches off automatically when the maximum heating time is reached. For private use this is set to either 3 or 6 hours in the panel settings.

7.5.3 Setting a delayed start

The UKU can schedule a start time so the sauna is ready when you arrive.

1. Press and hold the button for **6 seconds** to open the timer function.
2. Turn the button to select the delay time.
3. Short press the button to confirm and activate the timer.
4. The timeline appears on screen, showing how much time is left until heating starts.

Important: The timer will not start unless you confirm with a short press. If you only turn the button without pressing, nothing is scheduled.

Always make sure the sauna room is safe to heat before scheduling a delayed start. Nothing should be on or near the heater.

7.5.4 Adjusting humidity (if a steamer is connected)

- Current humidity is shown in the lower left corner.
- To change the target humidity, press and hold the button, then turn to adjust the value.
- The maximum humidity the UKU will allow depends on the target temperature. The higher the temperature, the lower the humidity limit.
- Above 90°C the humidity function is automatically off.

7.5.5 Settings menu

To open the settings menu, press and hold the button for **9 seconds**. The menu cannot be opened while the heater is heating.

The settings menu includes:

- WiFi settings - connect the UKU to your WiFi network for use with the HUUM app.
- Lamp / ventilation - enable control of a connected sauna light or fan (two quick button presses on the main screen toggles it on or off).
- Heating settings - temperature unit (°C or °F), maximum heating time, minimum and maximum target temperature, heating algorithm (Simple, Smart, or Learning), and temperature calibration.
- Humidity settings - only relevant if a steamer is installed.
- Safety settings - remote start safety, settings password, child lock, failure detection, overheating pauses.

To exit any menu, turn to “Back” and short press.

Do not disable failure detection or overheating pauses. These protect the sauna and the heater from dangerous conditions.

7.5.6 Child lock

The child lock prevents unauthorized use.

- Enable in Settings > Safety Settings > Child lock.
- When active, the lock applies automatically as soon as the screen goes to sleep.
- To unlock: while holding the button down, turn it a quarter turn right, back to center, a quarter turn left, and back to center.

7.5.7 Turning the sauna light on and off

If a sauna light is connected to the UKU control system, it can be controlled from the UKU Glass panel.

First-time setup (once):

1. Press and hold the button for 9 seconds to open the settings menu.
2. Go to “Lamp: On/off”.
3. Select “On” to enable lamp control from the panel.

Daily use:

- From the main screen, press the button twice quickly to toggle the light on or off.

7.5.8 Heating algorithm

The UKU offers three heating modes:

- **Simple** - all heating elements run at the same time until the target is reached. Good for smaller heaters.
- **Smart** - turns off heating elements one by one as the target gets close, then turns them back on as temperature drops. Saves electricity, best for heaters with 50 kg or more of stones (applies to the HUUM Steel 9 kW).
- **Learning** - learns from previous sessions and adjusts the heating to avoid overshooting the target.

The Smart or Learning setting is usually a good fit for the HUUM Steel 9 kW.

7.5.9 Throwing water on the stones

Wait until the stones are fully heated before throwing water. Water should evaporate immediately. Use only clean tap water and a sauna ladle. Do not use a hose. Pour about 80 ml at a time and wait a few minutes between rounds so the stones can dry and reheat.

Do not throw water while someone is standing close to the heater. Hot steam can cause burns.

7.6 HUUM Mobile App

The UKU system supports remote control through the HUUM mobile app.

7.6.1 Setup

The child lock prevents unauthorized use.

1. Download the HUUM app from the App Store or Google Play.
2. Create a user account.
3. Connect the UKU to your WiFi network via Settings > WiFi settings on the control panel.
4. Link the sauna to your account using the control system ID. The ID is printed on a sticker on the upper right corner of the main module cover, and also on the cover itself.
5. Confirm that a test command reaches the sauna. Commands should register within 60 seconds.

More than one user account can be linked to the same sauna.

7.6.2 What you can do from the app

- Turn the heater on and off.
- Set the target temperature.
- Set the heating duration (within the maximum defined in the panel settings).
- Schedule a heating session for a later time.
- Check the current sauna temperature from anywhere.

7.6.3 Remote start safety

For safety reasons, the UKU does not allow remote heating until the sauna has been confirmed as safe from the control panel. This must be done every time the door is opened.

To confirm the sauna is safe for remote heating:

1. Check that nothing is placed on the heater and that no flammable objects are within the safety distance.
2. Make sure nothing inside the sauna could cause a fire hazard.
3. Close the sauna door.
4. Press and hold the UKU Glass button for 3 seconds until the safety confirmation prompt appears.
5. Confirm yes. Three grey dots appear on the screen, showing the sauna is armed for remote start.

If the door is opened after confirmation, the remote start is automatically deactivated and must be reconfirmed on the panel.

Disabling the remote start safety check (not recommended)

The UKU allows this safety confirmation to be turned off, so the sauna can be started from the app without first checking it on the panel. We strongly advise against this. Starting the heater without confirming the sauna is safe can cause property damage, serious injury, or death.

If you still want to disable the check:

1. Press and hold the button for 9 seconds to open the settings menu.
2. Go to “Safety Settings”.
3. Find “Remote start safety: Enabled/Disabled”.
4. Select “Disabled”.

You can re-enable the check at any time by repeating these steps and selecting “Enabled”.

7.6.4 If the app does not respond

- Check that the UKU is connected to WiFi (the panel shows a WiFi icon when connected).
- Check that your phone has internet connection.
- Commands should register within 60 seconds. If they do not, check the network connection on both sides.

Maintenance

Regular maintenance keeps the sauna safe, hygienic, and good-looking over many years. Sauna wood is exposed to high heat, humidity, sweat, and UV light when placed outdoors. The heater and stones are under constant thermal stress. A small routine goes a long way.

8.1 Requirements

Keep the following items on hand to make routine maintenance straightforward.

8.1.1 Cleaning and general care

- **Soft microfibre cloths** - for wiping down benches, walls, and stainless steel without scratching.
- **Soft sponges or a soft brush** - for cleaning wood surfaces. Avoid abrasive scrubbers.
- **Mild soap or pH-neutral cleaner** - for general interior cleaning. Avoid anything with chlorine, bleach, ammonia, or strong solvents.
- **Warm water and buckets** - for rinsing.
- **Vacuum or soft broom** - for removing dust and debris from the floor and around the heater.

8.1.2 Wood care (exterior ThermoWood)

- **ThermoWood oil or sauna-safe outdoor wood oil** (Icetubs recommends Oak Light Stain or an equivalent). Used once a year on the outside.
- **Clean rag or soft sponge** - for applying oil.
- **Protective gloves** - when applying oil.

Important: Never oil, varnish, or paint the inside of the sauna. Interior wood must stay untreated so it can breathe and absorb humidity.

8.1.3 Stainless steel care

- **Microfibre cloth** - for polishing.
- **Stainless steel cleaner** or a mix of warm water and a few drops of mild dish soap.
- **Fresh water** - always finish stainless steel cleaning with a fresh water rinse and dry.

Never use: chlorine, bleach, steel wool, abrasive pads, or any cleaner that contains chloride. These damage the passive layer of stainless steel and cause permanent pitting.

8.1.4 Heater and stones

- **Spare sauna stones** - 5 to 13 cm for HUUM, 5 to 10 cm for Harvia. Keep a few kilos of spares so you can replace broken ones during the yearly stone check.
- **Heat-resistant gloves** - for handling stones.
- **Soft brush** - for cleaning dust and grit from the heater base.

8.2 Maintenance To-Do list

The more effort users put into hygiene before each session, the less strain is placed on the wood, stones, and heater.

Good habits that save maintenance:

- Shower before entering the sauna to remove skin oils, lotions, and deodorants.
- Sit on a towel so sweat does not soak into the wood.
- Leave the door open for 15 to 30 minutes after the session so the interior dries out.
- Remove wet towels and textiles after each session.

8.2.1 After each use

- Close the top air vent before each session. Open it after each session to let the sauna dry.
- Wipe the benches with a dry cloth or microfibre towel to remove sweat.
- Remove any forgotten items (towels, bottles, ladles if not needed).
- Leave the sauna door open so the interior can dry. For outdoor saunas, keep the door open until the inside feels dry to the touch, typically 30 to 60 minutes.
- Always open the top air vent next to the door after each session until you start using the sauna again.
- Empty the water bucket if one is used, so standing water does not build up.

8.2.2 Monthly

- Clean the benches more thoroughly with the special sauna interior cleaner. Let fully dry before next use.
- Wipe down the interior walls and ceiling with a slightly damp cloth.
- Clean the door glass (inside and outside) with water and a soft cloth.
- Check the sauna vents are clear of dust, spider webs, or debris.
- Polish stainless steel parts (door handle, heater shell if accessible) with a dry microfibre cloth.

8.2.3 Every 6 months

- Inspect the sauna stones. Remove and rearrange them:
 1. Wait until the heater is fully cold.
 2. Take out the stones using heat-resistant gloves.
 3. Remove any broken pieces, dust, and grit from the bottom of the heater.
 4. Rinse the stones with clean water and let them dry.
 5. Lay the stones back in place. Start with bigger stones at the bottom and sides, fill the gaps with smaller stones. Do not block the air tunnel. Cover all heating elements so none are visible.

8.2.4 Every 12 months

- **Oil the exterior ThermoWood** with sauna-safe outdoor wood oil (see Section 8.3). Done on a dry day, temperature between 10 and 25°C, out of direct sunlight.
- **Full stone replacement if needed.** Sauna stones disintegrate over time and should be replaced

8.3 Caring for Sauna Exterior

The sauna exterior combines ThermoWood cladding on the walls and stainless steel on the door handle, heater shell (for the Harvia Cilindro), and select hardware. Both materials are built for outdoor use but need simple routine care to keep their look and performance.

8.3.1 Why ThermoWood needs care

ThermoWood is heat-treated softwood that resists swelling, shrinking, and moisture absorption. Long-term exposure to UV light, rain, temperature cycles, and outdoor pollutants will gradually cause fading, greying, dryness, or surface cracking. A once-a-year oiling routine keeps the wood protected and looking close to its original colour.

8.3.2 How to maintain ThermoWood

Important: Only clean and oil the outside of the sauna. Never oil, varnish, or paint the inside. Interior wood must stay untreated so it can breathe and absorb humidity.

1. Clean the outside

- Remove dirt and dust with a damp cloth or soft brush.
- For stubborn dirt, use warm water with a mild pH-neutral soap. Rinse and let dry fully before oiling.
- Do not use pressure washers, chlorine, salts, acidic cleaners, or abrasive chemicals.

2. Apply wood oil

- Use Oak Light Stain (Icetubs recommended) or an equivalent outdoor wood oil suitable for ThermoWood.
- Apply with a clean rag or sponge, in the direction of the grain.
- Let the oil absorb, then wipe off any excess.
- One coat per year is sufficient for standard outdoor use.

3. Best conditions

- Dry day, temperature between 10 and 25°C.
- Out of direct sunlight.
- No rain expected within 24 hours.

8.3.3 Why stainless steel needs care

Stainless steel does not normally rust, but its corrosion resistance depends on a thin passive layer on the surface. Chloride, hard water deposits, and abrasive cleaners damage this layer. Without care, stainless steel can show water spots, discolouration, tea staining, or pitting corrosion in salty or chlorinated environments.

8.3.4 How to maintain stainless steel

What to use

- Dedicated stainless steel cleaner, applied with a microfibre cloth in the direction of the grain. Rinse and dry.
- For water spots or mineral deposits: a 50/50 mix of white vinegar and water, then rinse with fresh water.

What not to use

- No chlorine, bleach, or chloride-based cleaners (cause permanent pitting).
- No steel wool, wire brushes, or abrasive pads (scratch the surface and cause rust).
- No hydrochloric or muriatic acid products.

8.4 Caring for Sauna Interior

Interior wood is untreated and should stay that way. Cleaning is about removing sweat, body oils, and dust while keeping the wood dry.

8.4.1 General principles

- Wait until the sauna is fully cooled before cleaning.
- Never use harsh chemicals, chlorine, bleach, or solvents. Residues vaporise during heating and are harmful to breathe in.
- Wipe the wood, do not soak it.
- Let the interior fully dry after cleaning before the next session.

8.4.2 Deep cleaning

- Use a dedicated sauna interior cleaner, diluted in warm water as directed.
- Scrub gently with a soft brush, focusing on the benches and the area around the heater.
- Rinse with a clean damp cloth and leave the door open for several hours to dry.

8.4.3 Around the heater

- Remove dust and small stone chips from the floor around the heater.
- Wipe the area regularly. Some darkening from sweat and water splashes is normal and does not affect function.
- Do not apply any cleaning product directly on the heater or stones.

8.4.4 Ladle and bucket

Rinse the wooden ladle and bucket with clean water after each session and let them dry outside the sauna. Leaving them inside traps moisture and shortens their life. Check monthly for cracks or loose handles.

User Guidance

9.1 User Safety

9.1.1 Important to know

- Check the sauna temperature before entering. A comfortable sauna temperature is typically between 65 and 85°C.
- Keep sessions to 10 to 15 minutes at a time. Leave the sauna sooner if you feel uncomfortable.
- Children may only use the sauna under adult supervision, with shorter sessions and lower temperatures.
- If you have a medical condition, such as heart disease, high blood pressure, respiratory issues, or circulatory problems, seek medical advice before using the sauna.
- Move carefully inside the sauna. Benches and floors can be slippery. Do not jump or play inside the sauna.
- Do not touch the heater or the stones during or shortly after a session. They remain dangerously hot.
- When throwing water on the stones, make sure no one is standing close to the heater. Hot steam can cause burns.

9.1.2 Before you start

- Shower before entering. Removing sweat, oils, and lotions keeps the sauna wood cleaner and the air more pleasant.
- Hydrate well. Drink 300 to 500 ml of water 30 to 60 minutes before the session. Avoid alcohol and heavy meals in the hour before use.
- Remove jewellery, watches, and metal accessories. They heat up quickly and can cause burns.
- Do not enter the sauna under the influence of alcohol, drugs, or sedating medication.
- Bring a towel to sit on. This protects the wood from sweat and is more hygienic.

9.1.3 During your session

- Enter the sauna calmly. Start on a lower bench if you are new to sauna, where temperatures are milder. Move higher when you feel comfortable.
- Keep sessions to 10 to 15 minutes. A typical ritual is two or three rounds with cooling in between.
- Throw water on the stones gradually with a ladle, not a hose. About 80 ml at a time is enough. Wait a few minutes between rounds so the stones can dry and reheat.
- Breathe slowly and naturally. If breathing feels restricted, lower your position or leave the sauna.
- Listen to your body. If you feel dizzy, nauseous, or lightheaded, leave the sauna immediately and rest.
- Between rounds, take small sips of water (100 to 200 ml) if thirsty. Avoid drinking large amounts at once.

9.1.4 After your session

- Leave the sauna slowly. Sit or stand still for a moment before walking.
- Cool down gradually. Options include air bathing (resting in fresh air), a cool shower, or a cold plunge if part of a contrast routine.
- Rest until your heart rate returns to normal before starting another round.
- Rehydrate. Drink 500 to 750 ml of water over the next 30 minutes. Mineral water or electrolyte drinks help replace what was lost through sweat.
- Dry off with a towel before dressing.
- Leave the sauna door open for 30 to 60 minutes so the interior can dry.

9.2 Contraindications and Risk Groups

Sauna use is not suitable for everyone. The following groups should avoid sauna use or consult a healthcare professional before starting.

9.2.1 Medical conditions

- Serious heart or cardiovascular conditions, including uncontrolled high blood pressure.
- Circulatory disorders that affect blood flow.
- Epilepsy, fainting disorders, or other conditions that affect body temperature regulation.
- Respiratory conditions such as severe asthma or chronic lung disease.
- Kidney disease or conditions affecting fluid balance.
- Skin conditions that may be irritated by heat and sweat.
- Recent surgery or injuries. Use the sauna only with medical clearance.

9.2.2 Temporary health risks

- Fever, cold, flu, or any infectious illness.
- Open wounds, sores, or skin infections.
- Immediately after intense exercise. Let the body recover and cool down first.
- Within one hour after a heavy meal.
- Under the influence of alcohol, drugs, or sedating medication.
- Dehydration.

9.2.3 Specific groups

- Pregnant women, unless specifically approved by a healthcare professional.
- Children under 12 years old, only under close adult supervision and at lower temperatures.
- Elderly users with reduced heat tolerance or cardiovascular risk factors.

9.2.4 Important notice

If you have any pre-existing medical conditions or health concerns, consult a doctor before using the sauna. Your safety is always more important than completing a full session.

9.2.5 Warning signs to leave the sauna immediately

Leave the sauna and rest if you experience:

- Dizziness or lightheadedness
- Nausea or sudden weakness
- Rapid or irregular heartbeat
- Difficulty breathing
- Headache or confusion
- Numbness or tingling

Seek medical attention if symptoms do not resolve within a few minutes of leaving the sauna and rehydrating.

10 Warranty & Service

These terms outline the warranty coverage for the Icetubs Sauna - HUUM and Sauna - Harvia used for private and light professional purposes. They ensure safe operation and protect both the customer and Icetubs B.V.

This warranty is provided in addition to your statutory rights under EU and UK consumer protection laws (including Directive 2019/771 on the Sale of Goods, Directive 2011/83/EU on Consumer Rights, and equivalent UK legislation) and does not affect, limit, or replace those rights. Where this document refers to exclusions, void conditions, or claim windows, these apply to the commercial warranty only and do not affect any statutory rights you may have as a consumer.

10.1 Warranty

- Private use: 2-year warranty. Manufacturing defects and component failures under normal use (per EU/UK consumer law).
- Light professional use*: 6-months warranty. Manufacturing defects under commercial or professional use.
- Consumables (sauna stones) are excluded.
- Consumers must report defects within two months of discovery. Light professional users must report within 14 days.
- Report transport damage within 24 hours of delivery, with photos/videos of the damaged packaging.
- Provide proof of purchase, description of the issue, photos/videos.
- Labor, travel, and call-out fees are not included.

*"Light professional use" means use in a commercial setting where the product is not the primary revenue-generating equipment. For example, a small studio, clinic, or office.

10.2 Approved use for warranty

Warranty applies when:

- The sauna is assembled and installed according to the Icetubs assembly manual.
- The electrical connection of the heater and control panel is carried out by a certified electrician, in line with the requirements of the heater manufacturer (HUUM or Harvia) and local regulations.
- The sauna is placed on a level surface, indoors or outdoors, within an ambient temperature range of 0°C to 40°C when the heater is running, and -20°C to 40°C when the heater is off.
- Ventilation is set up according to the assembly manual.
- Only manufacturer-approved sauna stones are used.
- Only water and oils are applied to the stones. No chemicals or other additives.
- The sauna interior is cleaned only with the Icetubs approved sauna interior cleaner. No other chemicals are used on interior surfaces.
- Sauna stones are inspected, rearranged, and replaced when needed, at least once per year.
- The heater is operated within the limits set by the control panel.
- Icetubs installation guidelines are followed.

10.3 Warranty exclusions

Warranty is void if any of the following occur:

- Operating the sauna outside the approved ambient temperature range of 0°C to 40°C when the heater is running, and -20°C to 40°C when the heater is off.
- Use of any non-approved cleaning chemicals, additives, or substances on the stones or interior surfaces. This may cause corrosion or material damage and will void warranty coverage.
- Damage resulting from improper electrical setup, electrical connection carried out by a non-certified person, blocked or insufficient ventilation, or placement on an uneven floor.
- Use of non-approved sauna stones.
- Coastal placement (within 20 km of the coast), or damage from fire, flood, theft, pests, or extreme weather.
- The heater is operated without sauna stones, or with stones placed incorrectly according to the heater manufacturer's instructions.

The warranty does not cover:

- Consumables: Sauna stones.
- Damage due to negligence: Damage resulting from improper transport, relocation, or failure to follow installation/operation instructions.
- External damage: Water ingress, structural damage, or damage originating from outside the unit.
- Misuse/aesthetics: Cosmetic discoloration from chemical or mechanical misuse, personal injuries/accidents resulting from product misuse, or damage resulting from unauthorized modifications.
- Natural wear and tear: Normal darkening or blackening of the interior wood from heat exposure, resin pockets bleeding from the wood, small surface cracks from heat cycling, and wood deterioration of exterior surfaces due to sun and weather exposure.

10.4 Reporting & Service Requirements

- Consumers should report defects as soon as reasonably possible, and at the latest within two months of discovery. Light professional users must report within 14 days of discovery.
- Report transport damage within 24 hours of delivery, with photos or videos of the damaged packaging and product.
- All repairs must be pre-approved by Icetubs and carried out by an Icetubs-approved technician using Icetubs-approved parts. Damage resulting from unauthorised repairs or the use of non-approved parts is not covered by this warranty.
- Defective parts will be repaired or replaced free of charge under this warranty. After three months from the original purchase date, replacements may be provided using refurbished parts of equivalent quality.

- Icetubs does not provide on-site technician visits as standard warranty service. Depending on the defect, we will either ship a replacement part for you to fit yourself with clear instructions and remote support (for items that can be safely installed without technical training), or arrange free collection and return of the affected component for repair or exchange.

Warranty on replaced parts:

- Where Icetubs authorises a repair or replacement under this warranty, the repaired or replaced item carries its own additional warranty period. The length of that additional period depends on what is replaced and when the failure occurs.
- If a heater unit is replaced: Additional warranty of 24 months on the replaced heater from the date of replacement.
- If a heater component or control system component is replaced (e.g. heating element, control panel, sensor): The heater is covered until 36 months from the original purchase date (the original 2-year warranty plus an additional 12 months on the replaced component).
- Labor costs for removal, replacement, or installation are not covered.

10.5 Liability Disclaimer

Icetubs B.V. is not liable for property damage, water damage, or personal injury that occurs as a direct or indirect result of improper use, negligence, or failure to follow the operational requirements set out above.

This warranty excludes indirect, incidental, or consequential damages, including loss of use or economic loss. Nothing in this section limits any liability that cannot be excluded or limited under applicable EU or UK consumer law, including liability for death or personal injury caused by our negligence, and liability under the EU Product Liability Directive or its UK equivalent.

For full legal terms regarding liability and purchase conditions, please refer to our General Terms and Conditions.

10.6 Applicable Law & Disputes (EU/UK)

This warranty is governed by Dutch law. However, if you are a consumer in the European Union or the United Kingdom, your rights are protected under the applicable consumer law of your country of residence.

If a dispute arises, you may bring legal proceedings in either:

- the competent courts of Amsterdam, Netherlands, or
- the courts of your country of residence within the EU or UK, as permitted by applicable consumer protection laws.

You may also access Alternative Dispute Resolution (ADR) mechanisms in your country of residence under EU Directive 2013/11/EU on consumer ADR, or the equivalent UK framework.

10.7 Warranty Transferability

Icetubs B.V. products are built to last, and we support the circular economy. This warranty is tied to the product's serial number and is transferable under the following conditions:

- **Transfer of Coverage:** The remaining balance of the original Warranty Period may be transferred to a second owner, provided the product remains within its original country of delivery.
- **Validation:** To validate a warranty claim, the new owner must provide the original proof of purchase (invoice) from Icetubs B.V. or an authorized dealer.
- **No Extension:** A transfer of ownership does not extend or restart the Warranty Period; it only allows the new owner to utilize the remaining time left on the original 2-year (Private) or 6-month (Professional) term.
- **Notification:** We strongly recommend that the original purchaser notifies service@icetubs.com of the change in ownership to update our records for seamless technical support.
- **Condition at Transfer:** Icetubs B.V. is not responsible for damage incurred during the decommissioning, transport, or re-installation of the unit by the secondary owner.

10.8 Contact

Contact details:

 service@icetubs.com

 +31(0)332003091

 Icetubs B.V. - Nieuwpoortkade 16, 1055 XG Amsterdam

Provide the following information:

- Full Name and invoice/Proof of Purchase
- A clear description of the problem/vase.
- Photos or videos of the issue/situation, if possible.

This information helps our service team assist you quickly and effectively

Operational Manual
Sauna



www.icetubs.com