nootka
saunas

Cube Sauna

heater setup instructions

ATTENTION:
All electrical wiring for the sauna must be completed by a certified electrician.

Where any Nootka Saunas' instructions and the heater manufacturer's instructions contradict each other, defer to the manufacturer's instructions.

As per CSA C22.2 No.164-2018, section 1.2 and section 8.1.3, "factory built sauna rooms where the necessary wiring and heater installation is done in the field", require the heater assembly to carry a CSA C22.2 N0.164-2018, but the room itself is exempt from the directive. The Homecraft Heaters that are included with all Nootka Sauna kits carry this label.

Having trouble? For questions, comments, or concerns, please reach out to hello@nootkasaunas.ca

01

PART 1: ELECTRICAL TO THE REAR WALL OF THE SAUNA

APPROX. TIME REQUIRED: DEPENDS ON SITE SETUP*
Note to Electrician: Please let the client know the estimated cost for the scope of work included in Part 1 and Part 2

PARTS REQUIRED (NOT INCLUDED WITH SAUNA)

1. BREAKER (approximate cost: <$100)
The breaker required for your sauna depends on the size of heater you ordered. 8ft sauna (6'5" room + porch): Standard 9kW Homecraft heater, required 50A NON GFI Breaker or optional: 7.5kW Homecraft heater, requiring 40A NON GFI Breaker 10ft sauna (8'6" room + porch) 9kW Homecraft heater, requiring 50A NON GFI Breaker

2. WATERPROOF DISCONNECT (approximate cost <$50)
Most jurisdictions require a disconnect that is visible and within a certain distance of the sauna. A simple weatherproof, pull bar disconnect is typically suitable. Some electricians will mount these on the rear of the sauna, whereas others will mount the disconnect on a house or nearby structure.

3. WIRING AND FITTINGS (approximate cost: $20/meter + fittings and connectors)
From your breaker box to the back of the sauna, Electricians will typically run a 8-2 TECK cable (or equivalent AWCU), as this is armoured and rated for outdoor environments. Most jurisdictions require it to be trenched. For installations under covered areas, provided it's up to code for the area, electricians will sometimes run cable inside of PVC or metal conduit.

The Electrician will also need to run the wiring and supply the materials to run power from the 884 PVC junction box that's mounted on the rear of the sauna to the disconnect.

NOTE ON TRENCHING YOUR ARMOURED CABLE.
Most jurisdictions require the armoured cable to be trenched. Several customers choose to dig their own trench or have a landscaper dig the trench. In this case, it's highly recommended that you consult your Electrician first to ensure that your trench is up to code and that a sensible path for the trench is chosen.

ALWAYS CALL BEFORE YOU DIG!
Never start digging without first calling your local authorities to ensure there are no gas lines, electrical cables, data lines or other such hazards on your property. This can be a very costly and even dangerous mistake to make.

Provided below are useful resources for who to call before you start digging in Canada:
British Columbia: https://www.bc1c.ca/
Alberta: https://www.albertaonecall.com/
Manitoba: https://www.clickbeforeyoudigmb.com/
Ontario: https://www.ontarioonecall.ca/ Yukon:
https://yukonenergy.ca/health-safety/electrical-safety/call-before-you-dig
Quebec: https://www.info-ex.com/en/
USA: https://call811.com/

02

PART2: WIRING THE SAUNA HEATER

APPROX. TIME REQUIRED: 2 HOURS*

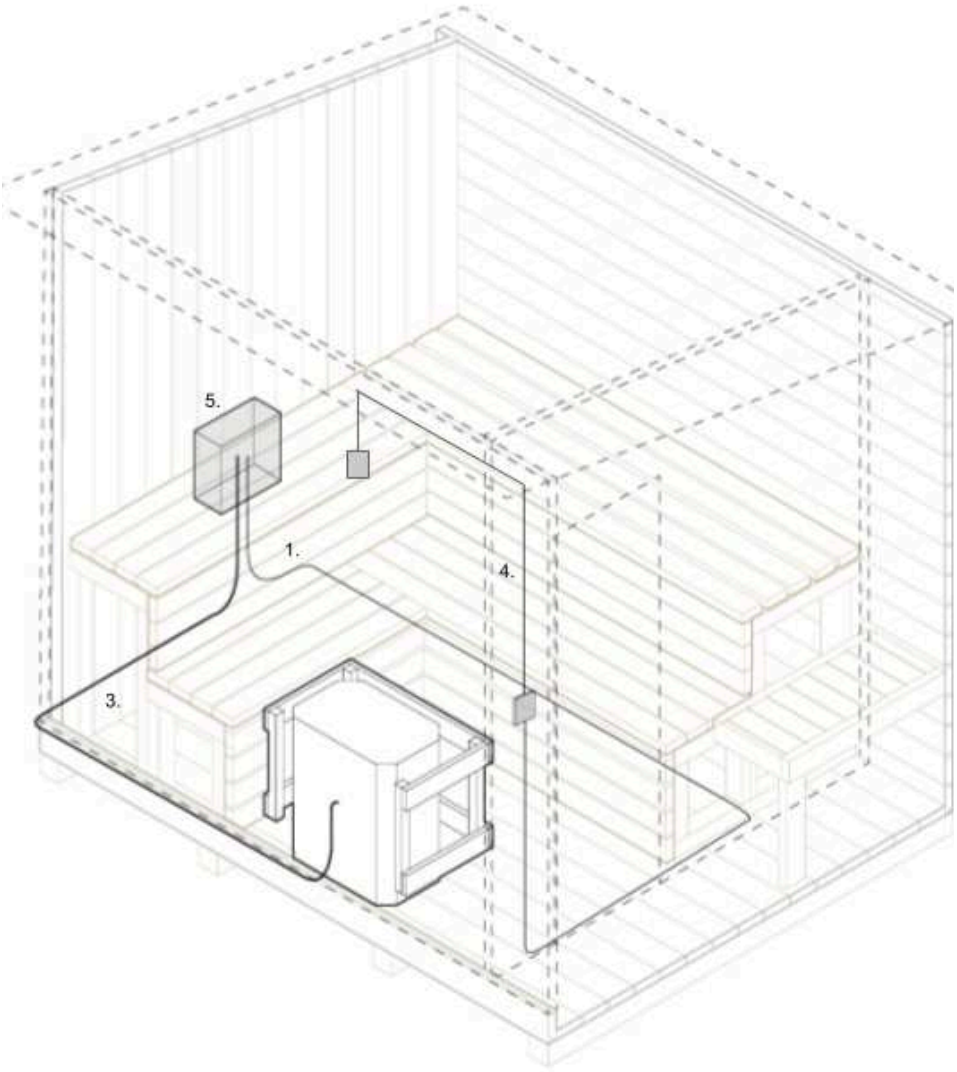
Note to Electrician: Please tell the client if you're not able to complete this work in the estimated time. All electrical components required for the below section should be supplied by the sauna

included parts list

			
Junction Box for Rear Wall with TECK connector installed with 18-4 Cable	18-2 Cable with Temp. sensor wire and cover 22ft	TECK Cable 8-2 (connecting the heater and junction box) 8ft	TECK Connector
			
Display Control Panel	Electrical Panel Cover	Cable Staples	Sensor Cover Kit

03

electrical heater layout



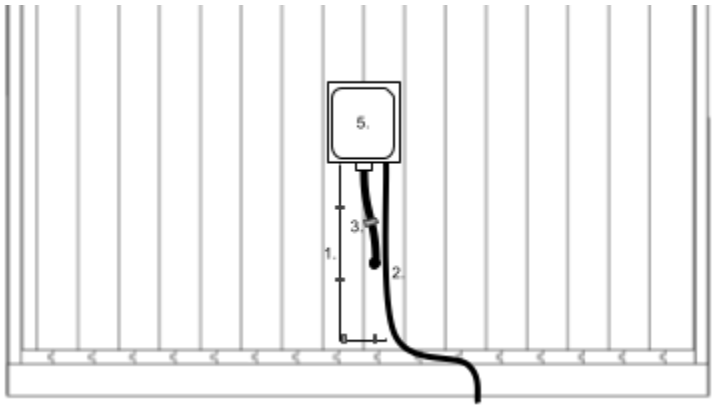
1. 18/4 Control/Voltage Wire
Runs from the 884 junction box on the rear exterior wall, through the rear wall, under the benches into the front wall 2 gang box

2. Inbound Power
40A 240V for 8ft sauna(7.5kW)
50A 240V for 10ft sauna (9kW)
NON-GFI circuit required

3. 1 meter 8/2 TECK cable + TECK connectors
To be run between heater and 884 Junction Box by the electrician (supplied by Nootka Saunas)

4. 18/2 Temp. Sensor Wire
Temperature probe is mounted above the heater. Wiring runs along the back wall then into the sauna, then continues next to the 18/4 cable under the bench and into the front wall 2 gang box (supplied by Nootka Saunas)

5. Junction Box
To be mounted by electrician to exterior wall (supplied by Nootka Saunas)

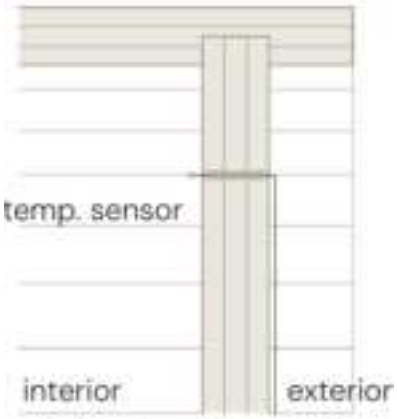


1 mount the temperature sensor

Approximately 2” down from the ceiling on the wall above the heater, there is a pre-drilled hole. Feed the 18/2 wire with the soldered temperature sensor through the hole from the INSIDE of the sauna to the EXTERIOR of the sauna.

Mount the temperature sensor to the wall with one screw (leave about 1/8” play between the screw and the temperature sensor).

Run both wires under the benches to connect with the 2-gang box.



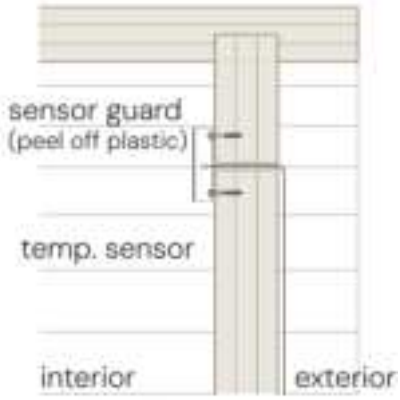
section view of rear wall

2 mount temperature sensor guard

There should be at least 1/8” play between the screw and the temperature sensor

IMPORTANT

Ensure the air vent hole behind the heater remains open Ensure rocks are loosely packed allowing gaps for heat to escape Do NOT fully tighten the temp. sensor against the wall. Allow air to pass the sensor on both sides of its resting position. Mount temp. sensor directly above the heater 2” from the ceiling.

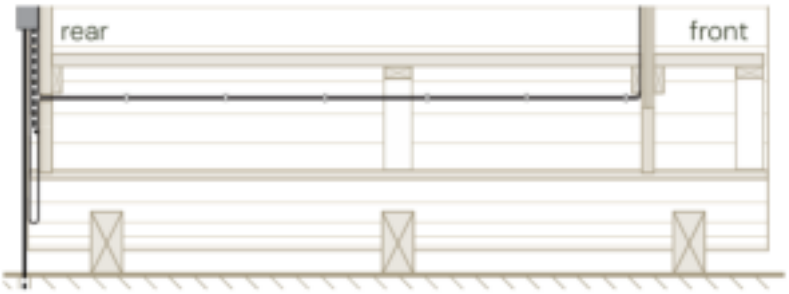


section view of rear wall

3 clean up the 18/4 and 18/2 wiring

Using the supplied cable staples, discretely run the two cables under the benches, securing them with cable staples.

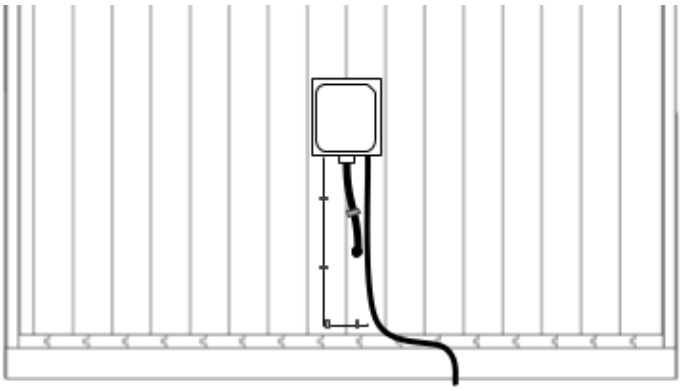
NOTE: There will be extra length to the wiring, either trim off the excess length.



section view of the under bench cables

4 clean up exterior wires

Secure the cabling to the back of the sauna's rear wall with the supplied cable staples.

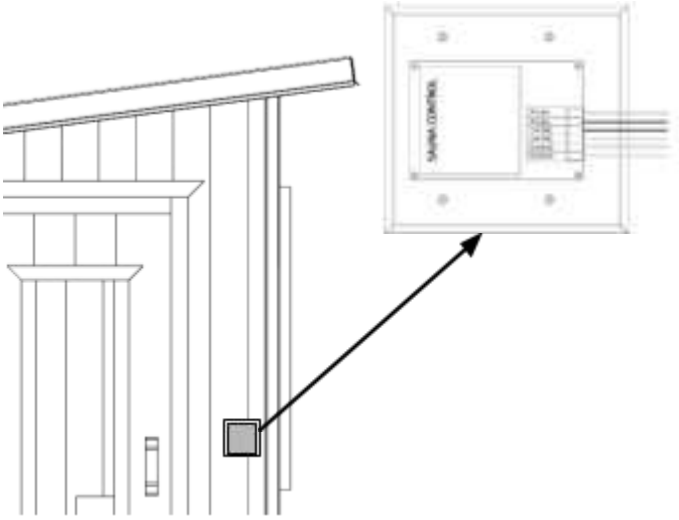


5 temperature sensor guard

First strip, then feed the 18/4 wire through the 2-gang box on this front wall, between two bench slats and then under the bench (this will get stapled in step 3). Run the remaining part of the wire out of the bottom hole from step 1.

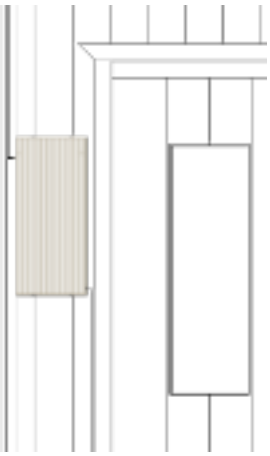
Strip and carefully connect both the 18/2 and the 18/4 cables to the front display panel. The 18/2 conductors connect to the sensor port (bipolar)

Two of the 18/4 conductors (usually red/ black) connect to the 24VAC ports on the controller (bipolar). The remaining two (usually white/grey) conductors on the 18/4 cable connect to the control port. Secure the nylon cable gland that both the 18/2 and 18/4 wires run through.



6 wooden electrical panel cover

Mount the supplied, wooden electrical panel cover to hide the 2-gang box from the inside of the sauna. Use two wood screws to secure the cover to the wall.



06

7 wire the TECK cable to the heater

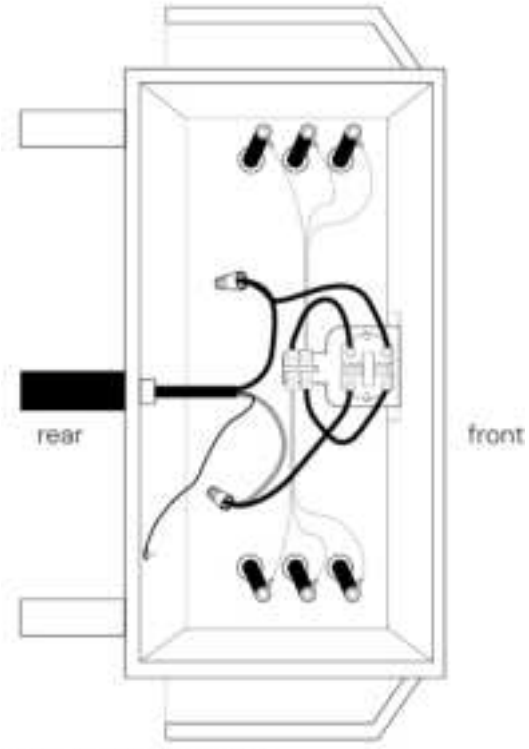
Remove the heater from the wall of the sauna (loft it up and it will slide off the two hooks it sits on. Flip the heater upside down and remove the 4x self-tapping screws from the bottom of the heater.

Use the center rear knockout and mount the supplied TECK connector. Then feed in one end of the supplied 18/2 TECK cable and secure the L1, L2, and GND wires. Use the supplied marrettes for the L1 and L2 connectors and for the GND, use the welded lug.

IMPORTANT

MAKE SURE THE MARRETTE CONNECTIONS FOR L1 AND L2 ARE VERY SECURE WHILE ENSURING THAT THE WIRES AREN'T TOUCHING THE WALLS OF THE ENCLOSURE WHEN YOU CLOSE THE BOX BACK UP.

Flip the heater to be right-side-up and feed the TECK cable through the hole on the center of the back of the wall through to the exterior.



bottom view of heater

MOUNTING ELECTRICAL HEATER

IF THE HEATER HAS NOT BEEN MOUNTED PRIOR TO ELECTRICAL INSTALLATION/WIRING, IT WILL HAVE TO BE MOUNTED BY THE ELECTRICIAN.

To mount your stove, fasten the two wall-mount brackets (taped to the stove for shipping) to the back wall of the sauna. The stove will slit into these.

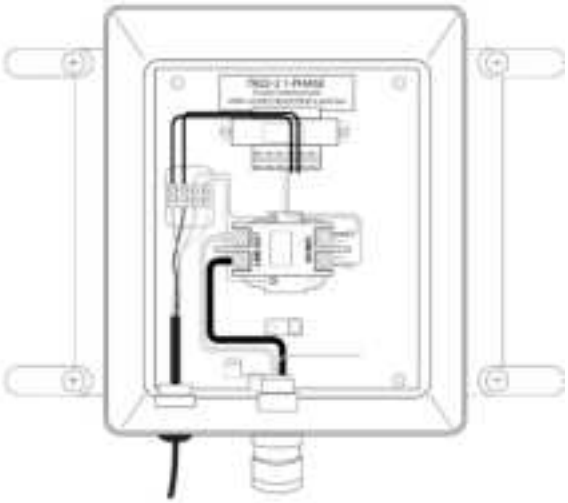
To determine the exact positioning for the brackets, position the stove such that the circular punch out on the bottom rear of the stove lines up with the upper hole on the back wall of the sauna. Use a level in the basket of the stove to ensure the stove is level before marking the bracket positioning with a pencil.

NOTE: Due to slight variations in the stoves and saunas, we recommend following the above method for positioning the brackets; however, they are generally screwed into the back wall approximately 23 3/4" above the floor and 10 3/8" apart.
NOTE: The cube sauna design, including the above-mentioned heater positioning has been approved by the Homecraft Heaters under their CSA certification (see final page of this package).

07

8 mount the junction box to rear wall

Ensure that all existing wiring is tight before closing the junction box.



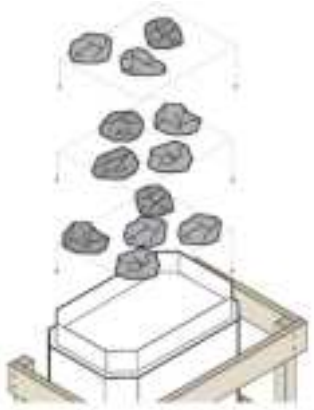
inside view of junction box

9 mount heater guard and add rocks

When installing the rocks, place the first layer scattered over the screen leaving approximately 50% of the screen exposed. Place each additional layer of rocks across the gaps so there will be good airflow. Stack the rocks loose and high NOT tight and low.

We send you more rocks than needed, please do not overload the screen. Keep in mind bad rock placement is the number one cause for the heater to malfunction.

Note: Rinse the rocks with water before installing onto the heater screen.



view of layered rock placement

IMPORTANT

BEFORE LEAVING THE SITE, THE ELECTRICIAN SHOULD RUN THE HEATER FOR A FULL CYCLE TO ENSURE THE SAUNA IS FUNCTIONING AS IT PROPERLY SHOULD.

- Once turned on, the unit should reach temperature (90C) within 15-20 minutes.
- Once the room reaches temperature, the heater should naturally cycle off for a few minutes
- After a few minutes the heater will cycle back on.

This cycle allows the heater to keep the sauna hot, without over-heating the heater components. If the unit doesn't reach temperature in the expected time, or if the heater "trips" (shuts off and won't turn back on), see the troubleshooting instructions below.

08

troubleshooting checklist

Troubleshooting must be completed by a certified electrician
and in accordance with the manufacturer's recommendations

INITIAL CHECKS

Is the incoming power actually 240VAC?
We've seen issues before where only ~190V is coming in (one of the legs is compromised) and this ends up giving enough power to sometimes show life on the front control power but not enough power to pull in the contractor).

Is the power leaving the transformer in the rear wall junction box 23VAC? (use a multimeter to check)

Check that all the 18AWG wires in the rear wall terminal block are secured.
Also check that the 18AWG wires in the front control panel are connected and secure.

TROUBLESHOOTING CHECKLIST

1

Do you see numbers/display on the front wall control panel?
YES: MOVE TO 2
NO: 24VAC isn't getting to the controller. Check the incoming power and make sure the 24VAC labeled 18AWG wires are properly seated/connected into the display and into the terminal blocks on the back wall junction box. Also, ensure that the low voltage wiring hasn't been punctured or damaged during the sauna assembly. For example, a screw through the 18/4 wire will short circuit the output side of the transformer.

2

When you hit ON, does the display show a temperature read out? (the current ambient temperature)
YES: MOVE TO 3
NO: It reads OPEN. The temperature sensor wires are disconnected (either where they go into the front wall display panel, or near the ceiling above the heater where they are soldered to the thermistor that's mounted to the wall. Check both for good connection.

3

When you hit ON/OFF do you hear a dull thud from the back wall junction box?
YES: MOVE TO 4
NO: The contractor isn't getting pulled in. It's very unlikely to have a faulty contractor, more likely that the "control wires" that go back to the contractor from the display control panel are not connected well or are damaged. With a multimeter, check the control wires at various points all the way back to the contractor to see if you're getting 24VAC.

4

Is there any heat being produced in the sauna after a minute?
YES: THAT'S GREAT! YOU'RE GOOD TO GO
NO:

A. The heater wiring might be loose or not connected properly. Dismount the heater guard, remove the rocks and flip over the heater to inspect the wiring and ensure a good connection between L1, L2 and GND.
B. When your sauna heater is overworked the high-limit switch will automatically shut the heater down as a safety measure.

On the bottom of every Homecraft Sauna heater you will find a CSA approved sticker with our heater information. In the very middle of the aluminum sticker is a hole where the high limit switch is located.

Steps to reset the heater:

1. Insert a safe (wooden) object in the hole and push to re engage the high limit
2. You should hear the sounds of the switch re-engaging
3. Go to your control panel and turn the sauna heater on once again

Over-heating at the base will most commonly be caused by the following reasons:

1. There needs to be two un blocked vent holes on the rear wall near the base of the heater
2. Remove a few rocks to allow more air flow through the system
3. Ensure the temp. sensor is mounted in the correct place, max 2" from the ceiling

If the high limit switch continues to trip in your sauna, then there is most likely an issue with your installation. Please advise us at orders@nootkasaunas.com and we will help determine the source of the problem.

Homecraft Saunas

Revive

6kw, 7.5kw, 9kw
240v
208v

INSTALLATION MANUAL

Table of Contents

NOTE: THESE HEATERS ARE ETL APPROVED FOR PERMANENT INSTALLATIONS AND ELECTRICAL CONNECTIONS. BUILT WITH SPLASH PROOF CONSTRUCTION, THE CONDUCTING PARTS ARE PROTECTED AGAINST WATER. ALL WIRING MUST BE PERFORMED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES.

SAFETY & WARNINGS

1. See applicable warnings provided on the sauna heater for reference
2. The sauna heater must have rocks placed correctly as per manufacturer's instructions. The Heater is never to be run without rocks
3. Make sure enclosed elements are covered with stones, and the stones have sufficient spacing for air movement
4. This Sauna Heater must be secured, with the provided safety brackets, to the floor and back wall for safe use.
5. Sauna doors must always open outwards, should never have a latch or lock that could cause entrapment Homecraft Doors use a safe roller latch
6. Never touch a heater that is turned on
7. Do not leave small children in the sauna room alone
8. If you have pre-existing health conditions please consult your doctor before using the sauna
9. No receptacle shall be installed inside a sauna room

Prolonged use in a Sauna room could result in Hyperthermia. Symptoms include but are not exclusive to:

- Failure to perceive heat
- Failure to recognize the need to exit the room
- Unawareness of impending hazard
- Fetal damage in pregnant women
- Physical inability to exit the room or unconsciousness

Warning:

- The use of alcohol, drugs, or medication is capable of greatly increasing the risk of fatal hyperthermia
- The safety to combustibles for the Revive Slim Sauna heater (4kw, 5kw, 6kw) is 3.5" inches to combustible materials.
- Always check to ensure the sauna heater is turned off after use. Yearly maintenance and cleaning, regular inspection of the sauna rocks is important
- This Homecraft appliance may not be used by persons with reduced physical, sensory or mental capabilities, or by persons lacking experience and knowledge regarding its operation
- Ensure the correct, suitable breaker panel with a correct circuit breaker shall be provided at installation
- Do not use a GFCI Breaker for sauna heater unless local electrical codes apply

CAUTION: If the manually resettable temperature-limiting control trips frequently, a qualified service-person shall be contacted

ATTENTION: Si le limiteur de temperature a réenclenchement manuel se dé clenche souvent, appelez un réparateur qualifié.

CAUTION: Avoid a Fire, do not place combustible materials on the sauna heater

ATTENTION: Evitez les incendies, ne places aucune matière combustible sur le chauffe-sauna.

CAUTION: Do not operate without rocks-use only safe, igneous rocks on the heater

ATTENTION: Ne pas faire fonctionner sans pierres. N'utiliser que des pierres ignées.

CAUTION: Do not install shows heads or water spray devices above the sauna heater

ATTENTION: Ne pas installer de pommes de douche ni d'autres dispositifs d'arrosage au-dessus du chauffe-sauna.

CAUTION: For supply connections, use 14 AWG or larger wires suitable for at least 105°C ."

ATTENTION:"Pour les connexions d'alimentation, utilisez 14 AWG ou des fils plus grands adaptés pour au moins 105°C."

Heater Specifications

240v Electrical Specifications

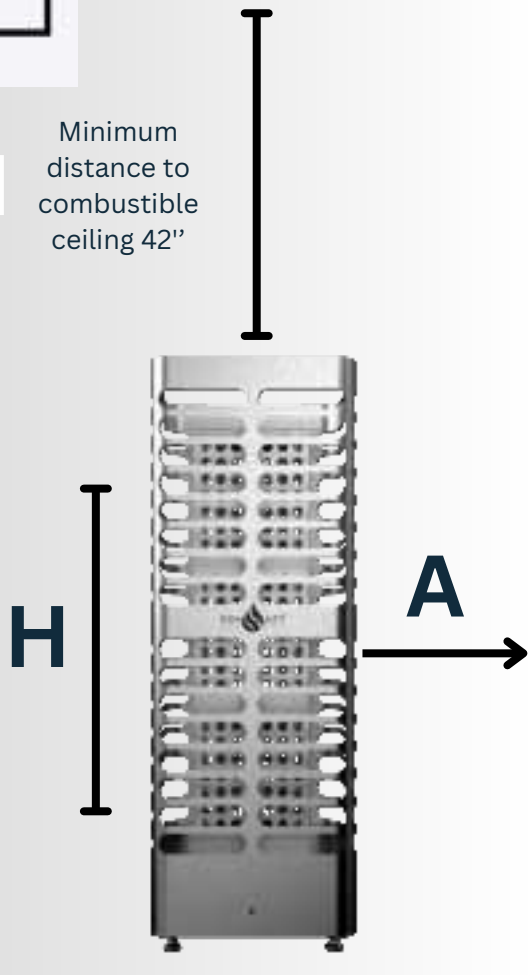
Revive 240v 1phase	Output 240v	Room Cubic Mt Cubic Ft	Amps	Circuit Breker	Wire Size
Revive 6kw	6000w	7.1 -8.5 250-300	25	40	8
Revive 7.5kw	7500w	8.5-10.5 300-370	31.3	40	8
Revive 9 kw	9000w	10.2-12.7 360-450	37.5	50	8

208v Electrical Specifications

Revive 208v 3phase	Output 208v	Room Cubic Mt Cubic Ft	Amps	Circuit Breker	Wire Size
Revive 7.5kw	7500w	8.5-10.5 300-370	20.9	30	8
Revive 9 kw	9000w	10.2-12.7 360-450	25	40	8

Safety Distances to Combustibles materials

Safety to Combustibles	A	Minimum Distance to ceiling	Height	Heater Size
Revive 6kw	3.5"	42"	36"	14" x 14" x 36"
Revive 7.5kw	3.5"	42"	36"	14" x 14" x 36"
Revive 9kw	3.5"	42"	36"	14" x 14" x 36"



GENERAL SAUNA OPERATION & MAINTENANCE

GENERAL SAUNA OPERATION & MAINTENANCE

- IT IS IMPORTANT TO HAVE A YEARLY ROUTINE OF CLEANING AND REARRANGING THE SAUNA STONES TO REMOVE OLD AND WEATHERED STONES REPLACING THEM WITH NEW STONES.
- HOMECRAFT SAUNA SEALANT IS A PROTECTIVE, WATER BASED, PRODUCT THAT SHOULD BE APPLIED TO THE SAUNA ROOM EVERY 2-3 YEARS FOR MAINTAINING WOOD QUALITY
- SAUNA ROOM INFORMATION:

SAUNA ROOM INFORMATION
1.2. THE WALLS AND CEILING OF A SAUNA ROOM SHOULD BE THERMALLY WELL INSULATED. ALL SURFACES THAT STORE HEAT, SUCH AS TILED AND PLASTERED SURFACES MUST BE INSULATED. IT IS RECOMMENDED TO USE PROPER WOOD PANEL CLADDING INSIDE THE SAUNA ROOM. IF THERE ARE HEAT STORAGE ELEMENTS IN THE SAUNA ROOM, SUCH AS DECORATIVE STONE, GLASS ETC., NOTE THAT THESE ELEMENTS MAY EXTEND THE PRE-HEATING PERIOD EVEN THOUGH THE SAUNA ROOM IS OTHERWISE WELL INSULATED (SEE PAGE 6, SECTION 2.7 PREPARING FOR SAUNA HEATER INSTALLATION).

HEATER GUARD
THE HOMECRAFT HEATER GUARD IS DESIGNED TO KEEP THE HEATER AT THE SAFELY TESTED SPACE FROM COMBUSTIBLE MATERIALS. THE HEATER GUARD IS INSTALLED SIMPLY BY ATTACHING THE BRACKETS TO THE SAUNA. A HEATER GUARD MUST BE INSTALLED ON EVERY UNIT FOR SAFETY PURPOSES. EACH GUARD MUST BE INSTALLED WITH THE SUPPLIED SCREWS. NEVER REMOVE THE HEATER GUARD.

VENTILATION:
PROPER VENTING AND POSITIONING OF SAUNA VENTS WILL PREVENT NUISANCE TRIPPING OF THE HIGH LIMIT TEMPERATURE SWITCH AND WILL ALSO RESULT IN A MORE COMFORTABLE SAUNA EXPERIENCE. IDEALLY, INTAKE AND EXHAUST VENTS ARE PLACED ON OPPOSITE WALLS. IT IS NOT RECOMMENDED TO USE ANY POWERED INTAKE / EXHAUST FANS. REPLENISHING OXYGEN WITH PROPER VENTILATION IS IMPORTANT FOR THE ENJOYMENT OF THE SAUNA EXPERIENCE.

HOMECRAFT VENTED DOORS COME WITH AN EXHAUST VENT INSTALLED WHEREAS THE HOMECRAFT WINDOW DOOR AND FULL WINDOW DOOR DO NOT HAVE A VENT INSTALLED IN THE DOOR. HOMECRAFT MANUFACTURED DOORS ARE INTENTIONALLY PROVIDED WITH A GAP FOR AIRFLOW UNDER THE DOOR.
SECURING THE SAUNA HEATER & BACK MOUNTING BRACKET:

SECURING THE SAUNA HEATER & BACK MOUNTING BRACKET:
HOMECRAFT HAS PROVIDED TO SAFETY BRACKETS WITH THE ADJUSTABLE SAUNA LEGS. PLACE THE BRACKET ONTO THE ADJUSTABLE SAUNA LEG AND INSERT THE ADJUSTABLE LEG INTO THE BASE. SECURE, WITH SCREWS, THE HEATER TO THE FLOOR.

ONCE LEGS ARE SECURED INTO THE HEATER AND HEATER IS LEVELLED, SECURE THE HEATER TO THE FLOOR USING SUITABLE FLOORING SCREW

Sauna Rocks

Quality rocks meet the following requirements:

- Please be aware that the inner components of the sauna can be sharp and it is recommended to use gloves or sufficient precautions while loading the sauna rocks
- Ensure that there is sufficient airflow between the rocks to allow heat to escape the air-flow system avoiding unwanted high-limit issues.
- Sauna rocks should withstand heat and heat variation caused by vaporization of the water thrown on the stones.
- Rocks should be rinsed before use in order to avoid odour and dust.
- Sauna rocks should be reviewed after 12 months of use. Removing worn or broken stones and replacing with new sauna stones
- Sauna rocks should be large enough, measuring about 2-5 inches to allow good ventilation between the stones. This extends the useful life of the heating elements.
- Sauna rocks should be piled sparsely in order to enhance ventilation between the stones. Do not bend the heating elements together or against the frame.
- Using rocks not sourced or provided by Homecraft Saunas will void the warranty of the Sauna heater
- Larger rocks should be placed on the bottom of the heater while saving the smaller rocks for the top 9 inches of the heater
- Rocks should be placed until they sit to the top of the heater ensuring that the element protector is fully covered or encased with rocks.

The warranty does not cover defects resulting from poor ventilation caused by small and tightly packed stones. Structural clay tiles are not allowed. They may cause damage to the sauna heater that will not be covered by the warranty.
Do not use soapstone as sauna rocks. Any damages resulting from this will not be covered by the stove warranty.
Do not use lava stone as sauna rocks. Any damages resulting from this will not be covered by the stove warranty.

DO NOT UNDER ANY CIRCUMSTANCES USE HEATER WITHOUT STONES.

Preparing for Install

Check the following before installing the sauna heater.

- Please ensure that the heater is the recommended heater for the size of the sauna room and that your heater will be safely placed within the proper distances to combustibles
- A sauna room that is uninsulated or has masonry stone walls will extend the preheating time for the sauna heater. Each square meter of plastered ceiling or wall surface adds 1.2 m3 to the sauna room's volume.
- Ensure that the suitable electrical specifications have been met that match your specific sauna heater.

Installation of Sauna Heater

- Follow the safety clearance specifications on page 6 when installing the sauna heater.
- The sauna heater is a floor-standing model. The base or floor must be solid, because the sauna heater, with rocks can weigh up to 180-200 pounds.
- The sauna heater is levelled by the adjustable legs to ensure the heater is always level.
- The sauna heater needs to be fixed directly onto the floor, wall or to the sauna bench module by using suitable anchors provided by Homecraft.
- Walls or ceilings must not be clad with fibre reinforced plaster board or other light-weight cladding, because they may cause a fire hazard.
- If the sauna heater will not heat up, please check that:
- The power is on
- The main fuses of the sauna heater are intact
- If there any error messages on the sauna control panel. In case of an error message on the control panel
- Please refer to the control panel instructions.

Heating the Sauna

Before turning the sauna heater on, make sure the sauna room is safe & suitable for taking a sauna. When heated for the first time, the sauna heater may emit some odours. It is recommended to run the brand new sauna heater for 1-2 hours to cure the sauna heater.

The Homecraft Revive Sauna heater has an upper temperature limit of 90 degrees Celsius (194 Fahrenheit) and can be run for cycles of up to 60 minutes.

Manual Safety Switch (High-limit switch)

All Homecraft Sauna Heaters have a thermal safety switch to prevent overheating. If the sauna heater switches off due to an abnormal operating condition let the heater cool down then reset the safety switch by inserting a non-metallic object into the small hole on the font of the heater.

** If the "reset safety switch" trips frequently, please contact either a qualified serviceperson or contact Homecraft directly.

** Si le limiteur de temperature a reenclenchement manuel se déclenche souvent, appelez un réparateur qualifie.

Installing the sauna control

Installing the temperature Sensor

Step 1: Attach the Temperature Sensor, with the supplied connectors, to the 3658mm (12 Ft) length of 18/2 wire. If you require a longer distance between the sensor and the Digital Sauna Control buy a new continuous length of 18/2 wire and attach the sensor to it. Do not slice into the wire supplied.

Step 2: Be sure to run the 18/2 wire inside the insulated stud space in the sauna wall.

Step 3: Be sure to leave a little slack in the 18/2 wire in the stud wall. Strip about 152mm (6") from the outer casing of the 18/2 pair, leaving the protective casing on the individual leads. This will make it easier to attach the 18/2 wires to the sensor leads, and gives more flexibility when pushing any excess wire back into the wall.

Step 4: The sensor wire should come out of the wall into the sauna room through a 5/8" diameter hole so the sensor is positioned over the heater according to the heater instructions (see figure 1)

Step 5: Do not hide or bury the sensor behind a cover other than the one supplied by Homecraft. Incorrect installation of the sensor will negatively impact the heater operation, cause nuisance high limit tripping (safety device in the heater), and compromise personal and fire safety.

Sensor Cover Installation

Step 1: Homecraft has supplied #6 wood screws and a flat washer; fasten the sensor to the sauna wall over the sauna heater in the prescribed position 64mm (2 1/2") below the ceiling.

Step 2: Fasten the sensor cover to the wall using the 4 supplied #6 wood screws, covering the sensor and taking care not to nick or cut the wires leading to the sensor. Be sure to remove the protective plastic film from the stainless steel sensor cover shown on page 8. The sensor cover is designed to allow for adequate airflow and protects it from any damage or tampering.

Corner and wall installations:

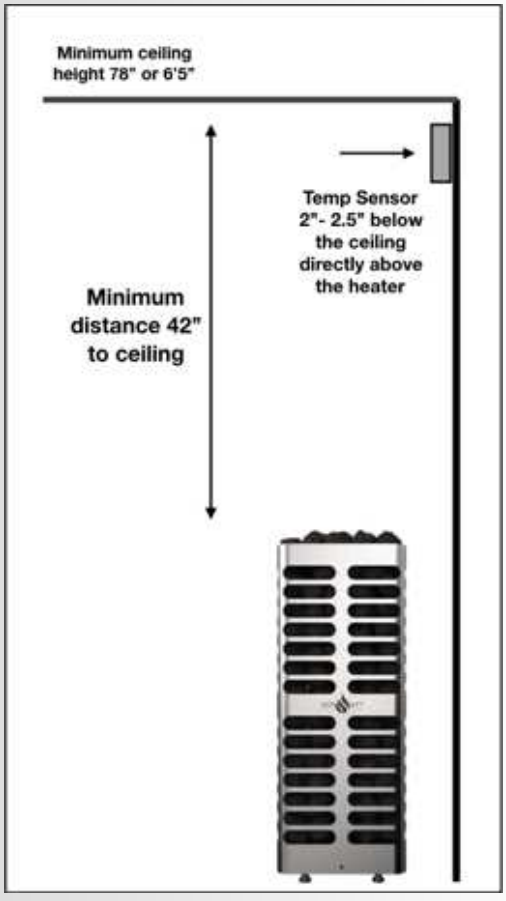
The Homecraft provided Temperature Sensor (thermistor) is installed 2'' - 2.5'' from the ceiling and should be installed in-line with the heater. Alternatively, the sensor can be installed on the ceiling above the centre of the heater

Middle installation: If the sauna heater is installed further than 3.5" off a wall or a corner, the installation method is always middle installation. The heater must be attached to the benches or to a similar structure using a wall support.

The heater must be secured to the floor or the sauna bench structure in order to keep the safety distances the same using the supplied support brackets

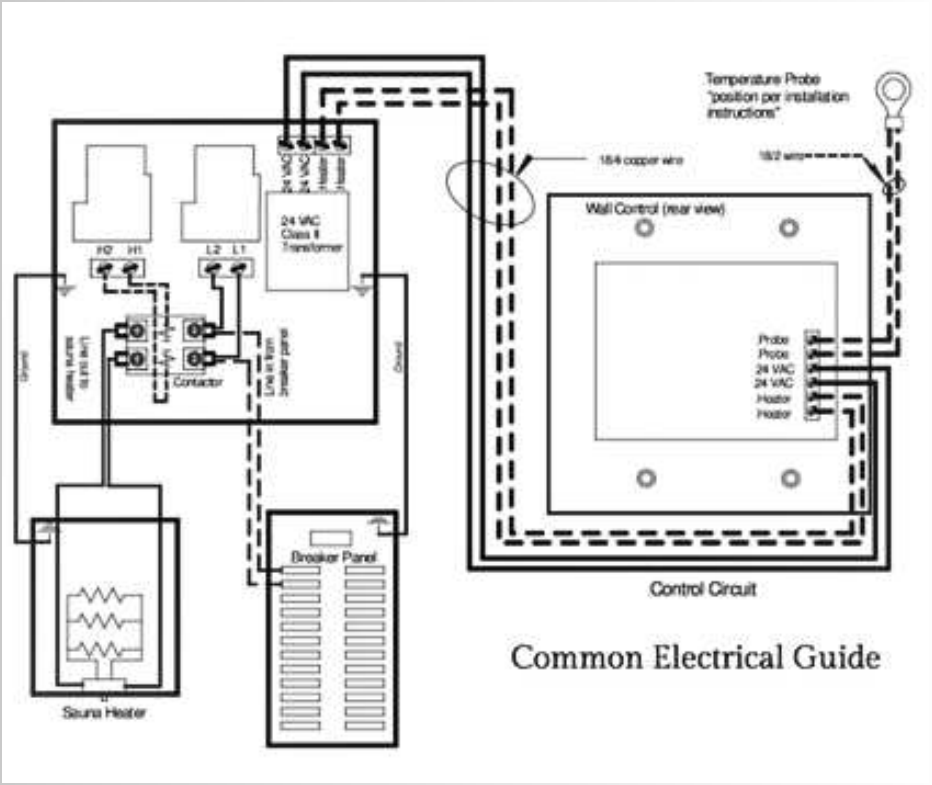
*** All Homecraft sauna heaters must be installed by a qualified electrician and in compliance with current / local regulations. All wiring to the sauna heater and accessories must be routed away from any direct heat radiating from the sauna heater. Install the control box on the outside of the sauna room in a location that is readily accessible for maintenance.

It is not recommended to install any electrical receptacles inside the sauna room.



Relay Control Box:

The "Relay Control Box" contains the 24volt Class 2 transformer and a magnetic contractor. The Relay Control Box can be surface mounted or flush wall mounted. This box needs to be mounted in a location that you can access should servicing be required. Note the 3658 mm (12 ft) of 18/4 wire is supplied with this control for connecting the Relay Control Box to the Digital Sauna Control so be sure to keep within this distance.



Digital Control for a Homecraft Sauna Heater

A Digital wall-mount Sauna Control panel is precise and offers features for the safe operation of your sauna heater. A normal sauna control is a Class 2 24volt circuit and does not require a GFI breaker. Be sure to check with your local inspection authority.

The Standard Homecraft sauna controls require a standard 2 gang electrical box. This box should be mounted on the outside wall of the sauna.

The typical sauna control consists of the following components:

- A "Relay Control Box" containing a 24volt Class 2 Transformer and relays, and a magnetic contactor that is prewired.
- A digital "Wall Control Panel" that mounts to a 2-gang electrical box (supplied by owner) by which you set your time and temperature C. A package containing wire, temperature sensor, temperature sensor cover, electrical connectors, and 4 faceplate screws required for installation.
- Please refer to the enclose wiring schematic which clearly shows the path of the wiring (Page 11)
- Connect the 18/4 wire to the appropriate connections in the Relay Control Box. Do not splice onto the 12 ft. length of 18/4 wire if more wire is needed.
- Be sure to connect coloured wires consistently between the Relay Control Box and the Digital Sauna Control as per the wiring diagram

CAUTION: Use only a contactor approved for 250,000 cycles
ATTENTION: Utiliser uniquement un contacteur approuve pour 250 000 cycles de fonctionnement

Warranty Terms:

- The buyer is obligated to read the user manual and follow the instructions and requirements presented. Damage to the product caused by not following the instructions or from improper sauna use, or tampering of the heater will void the warranty. If there are any defects on the sauna heater, where the manufacturer can be blamed, the buyer has the right to demand a replacement or repair of the product. All complaints must happen within the time period of the life of the warranty.
- Warranty applies only to electric heaters that have been used according to the instruction manual
- Warranty does not cover heating elements as they are considered a consumable part
- Warranty does not cover general wear that occurs from normal sauna use
- Warrant does not apply when:
- If Product has been damaged by carelessness.
- If Product has not been installed correctly.
- If Product has been modified or tampered with.

CONTACT US

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August 29, 2023

Homecraft Manufacturing

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V4N 4C6

Re: The R-Value of Nootka Saunas' Barrel Saunas and Use of HSH Heaters

To Whom It May Concern,

Homecraft Manufacturing is a Canadian sauna heater manufacturer responsible for the production of the HSH 7.5kW and 9kW electric sauna heaters. These heaters are tested & certified under CSA C22.2 NO. 164:18 (R2022).

The recommended sauna room volumes in our instruction manual are for sauna rooms with an R-Value of 12 or higher. We also offer a floor surface area recommendation for our heaters, but realize that this is an ambiguous number for a barrel shaped sauna. Sauna rooms that are built with a lower R-Value will need to adjust the size of the Sauna heater for best performance and safety.

HSH heaters have a bimetal thermal switch built into the heater, which ensures the sauna heater is automatically disconnected from power if the heater reaches 250 ° F or 121°C. This safety mechanism ensures our Sauna heaters will not overheat the sauna room.

We recognize that Nootka Saunas' barrel saunas have an R-Value less than 12. As the manufacturer of the Homecraft HSH series heaters, we have no concerns with Nootka Saunas using our 7.5kw and 9kW HSH heaters in their barrel saunas of volumes ranging from 5.0m^3 to 7.9m^3 and an R-Value below 12, provided all other mounting instructions, safe setbacks and clearances are followed.

Regards,

Kyle Wilson
Owner – Homecraft Manufacturing