



Trinity™

Owner's Manual

Combination Sauna



Operating instructions for your Trinity™ Combination Sauna

Guidelines and helpful tips

Congratulations on your purchase of your Trinity™ Combination Sauna. We are confident that you will enjoy the many benefits for years to come.

Carefully read this manual before using your Trinity™ for the first time. We recommend keeping this manual for review and future reference.



Finnmark Designs

Ultimate Sauna Experience

Welcome to the Finnmark family!

By owning a **Trinity™**, you're taking a powerful step for your health—and you can enjoy the ultimate relaxation in your home whenever you want.

Each sauna is made with the highest-grade materials—including 100% hand-selected Western Red Canadian Cedar—and is built to be easy to use, with low radiation for the whole sauna and the highest safety standards in the industry.

With your Trinity™, you also enjoy such excellent features as our Spectrum Plus™ heaters (which are backed by a lifetime warranty), responsibly and sustainably certified Western Canadian Cedar wood, medical grade LED therapy, Bluetooth® compatible audio components, Harvia™ traditional steam heater as well as additional features designed to enhance your lifestyle and wellness.

We are happy to have you join us and look forward to sharing in your experience as you take control of your health and support your relaxation with your Trinity™ combination sauna.

By making sauna use a regular part of your routine, you'll enjoy anti-aging, disease-preventing, and longevity benefits—all without leaving the comfort of your home.

Enjoy!

Your Finnmark Designs Family

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The information contained in this manual is subject to change without notice.

A. Installation & Maintenance

1) How to choose a location

When choosing a location for your Trinity™ keep these two things in mind: One, your sauna should be placed on a solid surface. Two, your sauna must be placed in a dry area.

Here are the installation requirements for your new sauna.

1. Your sauna should not be built into any structure. It is a self-contained and freestanding unit.
2. To allow easy access to the main power cord, ensure there's a minimum of 3-inches of clearance from the top wall and all sides of the unit.

Moisture may cause damages to the exterior of your sauna. Your basement, attic, garage, playroom, spare bedroom, new extension, and garden chalet are a few possible locations for your sauna. Finnmark Designs Thermal Plus™ beautiful wooden exterior should complement your house beautifully.

If you choose to place your sauna outdoors, you must use a cover (see page 25) or Finnmark Design's custom roof to protect your sauna. Don't place the sauna on a surface that easily gets wet or where snow commonly accumulates. Placing your sauna outside without a cover or roof will void your warranty.

2) Cleaning & maintenance

1. Before using your Sauna for the first time, use a damp cloth to clean the inside of the sauna. You can use a natural furniture polish or bees wax to clean the exterior.
2. To burn off any factory dust before using your sauna for the first time, turn the sauna on for the maximum time and temperature. For maximum performance of the heaters, cycle your **Trinity™** (turn on to max temperature and run for one hour) 2-3 times.
3. Remove any scratches and stains on the inside of the sauna using a fine grade sandpaper over the damaged area.
4. A customized **Trinity™ cover** is available as an accessory for all models. Use of this protective storage cover will not only preserve the natural beauty of the sauna but will also help in maintaining it for years of continuous enjoyment.
5. We recommend applying a heavy furniture polish or bees wax to the outside of the sauna before putting the (optional) cover on. The polish will create a barrier for better protection.

A. Installation & Maintenance

Step 1: Bottom and back panel

1. Find the bottom panel.

Turn the bottom panel upside-down and install the feet.



Turn the bottom panel back over and place it in position where the sauna will be assembled.



2. The front left of the sauna will have the hole on the floor to route your wiring for a traditional heater.

3. Place the back-right panel onto the bottom panel. Have someone hold the back panel upright so it does not fall over.



4. Place the right panel onto the bottom panel.



A. Installation & Maintenance

- Using a screwdriver, secure the back panel to the left side panel with the (4) provided screws.



Step 2: Bench supports and left panel.

- Set the left panel in place and secure the panel with the (4) additional screws.
- Place the bench support. **Plug in the heater cable from the bench support to the back wall. Plug the floor cable into the back wall.**
- Slide the top bench on the bench support.
- Slide the bottom bench on the lower bench support.



A. Installation & Maintenance

Step 3: Front Panel and Top Panel

1. Fold the glass door against the sauna. Lift the **left side** of the panel onto the sauna frame. Do not lift the top **right bar of the sauna**.

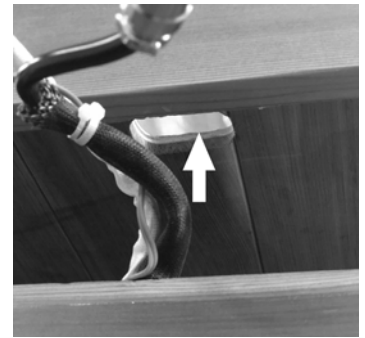


2. Use provided screws to secure the front panel to the left and right panel.

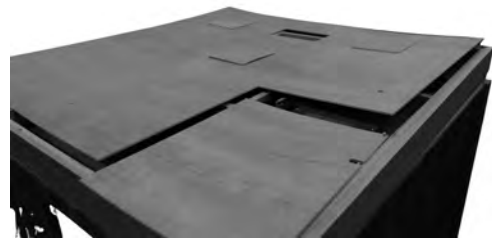
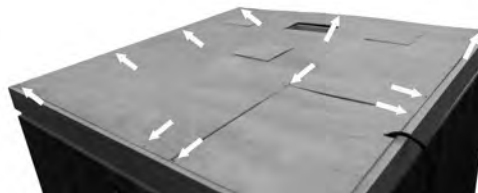


4. Use (6) screws to secure the front panel. Do not overtighten.

5. With two people, place the top panel over the sauna and feed the data wire through the hole on the top right of the sauna.



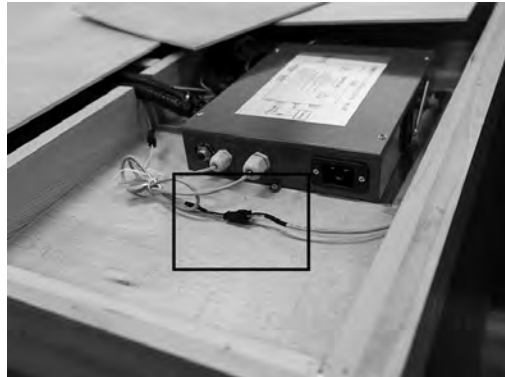
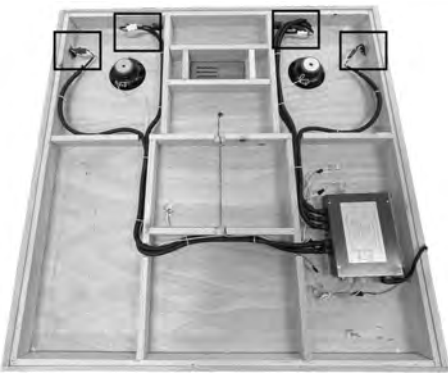
6. With the lid in place remove the screws on the dust panel to access the power supply and heater connections.



A. Installation & Maintenance

Step 4: Power supply and heater connections

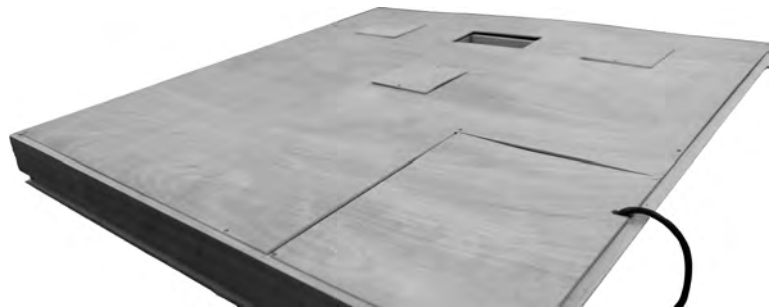
1. Connect all (5) heater connections in ceiling. (2 white) (2 Red) (1 Blue)
2. Connect data cable to power supply.
3. Connect power cable to power supply.



4. Replace the power supply cover screws.



5. Replace the top dust cover screws and feed the power cable through the hole.



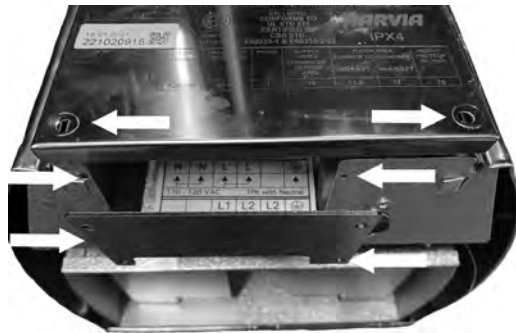
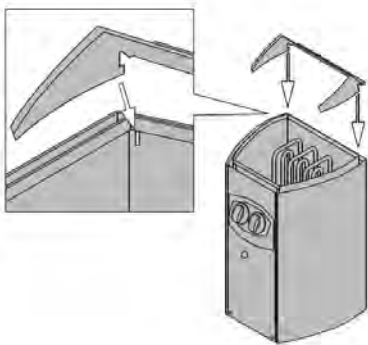
A. Installation & Maintenance

Step 5: Harvia Heater Installation

1. Find the Harvia mounting plate in the Harvia heater box.
2. Place the back plate on mounting block, use provided level and mark each hole.
3. Use provided (6) screws and mount the back plate using a drill.



4. Place the heater reflector on the Harvia heater using the side notches.
5. Place heater on floor and remove (2) front screws and (4) bottom panel screws.
6. **Provide Harvia heater installation manual to licensed electrician.**



A. Installation & Maintenance

Step 6: Door Handle

1. Use the provided screws (2) to mount the door handle to the door.



Step 7: Plug In the power cable for infrared heaters.

Your installation is complete!

The installation of your new **Trinity™ sauna** is now complete! Use a damp cloth to wipe out the sauna to remove any excess sawdust that may have settled on the wall, heaters, or floor.

B. Getting Started

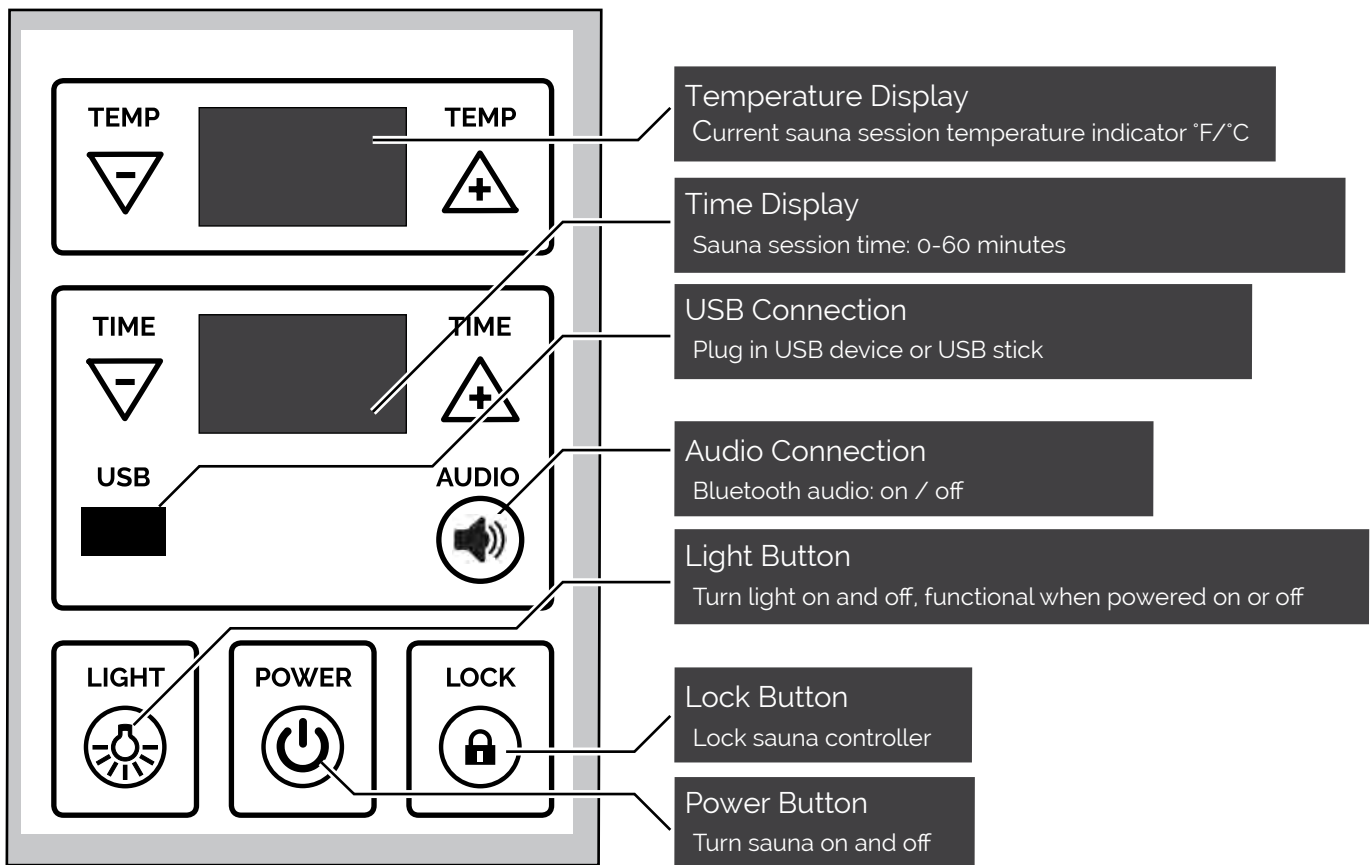
1) Preparing for your first infrared sauna home experience.....

1. Review all health and safety instructions. If you're in doubt about using your **sauna**, first consult with your physician.

2. The interior of the **Trinity™** is made of the finest Western Canadian Red Cedar.

The cedar is aromatic and adds to the enjoyment of your sauna session. If the fragrance of the fresh wood is too strong during the first few months, first wipe the wood with a damp cloth to minimize the aroma.

2) Digital control panel



B. Getting started

3) Powering on your sauna

1. Plug in the power cord to the electrical outlet. All lights on the LED Control Panel will flash once.
2. During Off mode, nothing will display.
3. We recommend turning the sauna on for the maximum time and temperature in order to burn off any factory dust before using your sauna for the first time. For maximum performance of the heaters, cycle your sauna (turn on to max temperature and run for one hour) 2-3 times.

4) Starting up your sauna

1. Tap and hold the Power button for approximately 5 seconds to start up your sauna.
2. The temperature display will indicate the current cabin temperature. If the ambient temperature within the cabin is below 90°F/30C°, the display will read "LO."
3. The time display will indicate the sauna session time. When the time button is tapped, it will change the time in five-minute increments. The maximum session time is 60 minutes.
4. The Light button will illuminate to indicate that the interior LED panel is turned on. To turn Off, simply tap Light again.



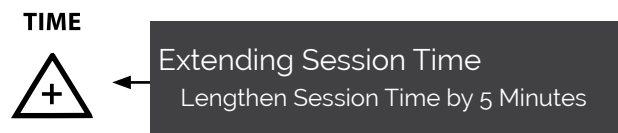
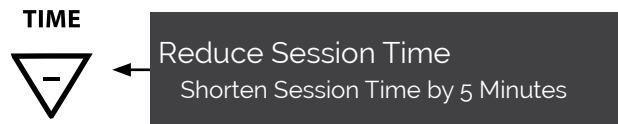
The controller is touch sensitive, so you must hold down the power button for 2-3 seconds.

B. Getting Started

5) Setting the sauna session time and temperature

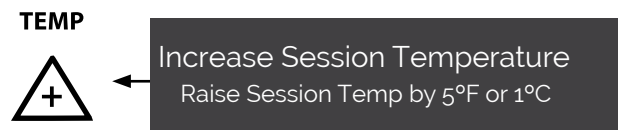
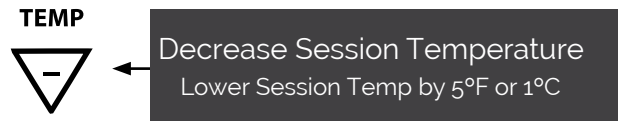
Session Time

1. Tap the Time+ or Time- buttons to adjust the sauna session time.
2. The session time will change in 5-minute increments and can be set between 5 and 60 minutes per session.



Session Temperature

1. Tap the Temp+ or Temp- button to adjust the sauna session temperature.
2. In Fahrenheit mode (°F), the temperature can be adjusted 5 degrees at a time.
Min. Temp: 90°F, Max Temp: 170°F
3. In Celsius mode (°C), the temperature can be adjusted 1 degree at a time.
Min. Temp: 30°C, Max Temp: 75°C



6) Changing between Fahrenheit and Celsius

1. Tap and hold the Power button for approximately 5 seconds to start up your sauna.
2. Tap the Temp- and Temp+ buttons **at the same time** and hold for approx. 5 seconds until the display reads "F-C".
3. Tap the Temp- and Temp+ buttons **at the same time** to change to the desired mode (°F or °C).
4. Tap the Temp- and Temp+ buttons **at the same time** and the display will read "OST".
5. Tap the Temp- and Temp+ buttons **at the same time** and the display will read "S-L".
6. Tap the Temp- and Temp+ buttons **at the same time** once more and the display will show the current temperature.

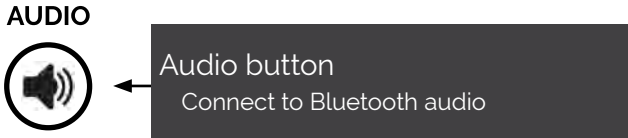
Note:

If the display shows "S" and the controller is beeping, simply repeat steps 2-5 and tap the Temp- and Temp+ buttons **at the same time** until the display reads "L". Then tap the Temp- and Temp+ buttons one last time.

B. Getting Started

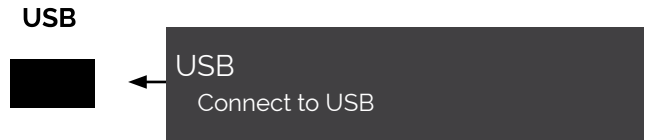
7) Using Bluetooth & USB

1. When the sauna is on, tap the audio button so the light is illuminated.
2. Open your Bluetooth settings on your device.



3. Select BT-SAUNA from the list of available connections.
4. Once connected press Temp + and Temp - to adjust the audio level. You can also use your device to adjust audio levels.

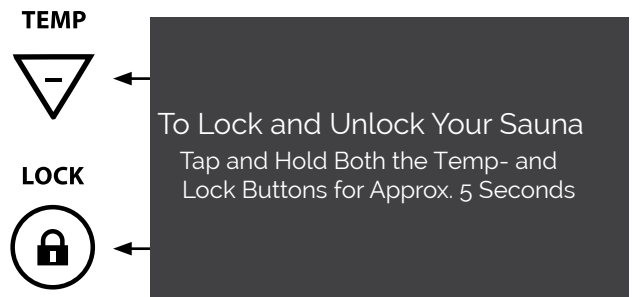
1. When the sauna is on, tap the audio button so the light is illuminated.
2. Place a high-quality USB audio device into the USB slot.



3. Once connected, the screen will display USB.
4. Press the Temp + and Temp - to adjust the audio level. You can also use your device to adjust audio levels.

8) Locking your sauna's control panel

1. Tap both the Lock and Temp- buttons at the same time and hold for approximately 5 seconds.
2. You will hear a beep and "LOCK" will appear on the upper right corner of the time display.
3. During Lock mode, all buttons will not be responsive in either On or Off modes and the Lock button will illuminate.
4. To release the Lock function, tap both the Lock and Temp- buttons at the same time and hold for approximately 5 seconds.



B. Getting started

9) Changing your sauna's settings during a session

1. If you want to adjust the temperature during a session, tap the Temp+ or Temp- buttons.
 - When your sauna session has 5 minutes left, the sauna will beep letting you know your session is almost over.
2. If you want to adjust the session time, simply tap the Time+ or Time- buttons.
3. If you want to turn Off the sauna in the middle of a session, tap and hold the Power button until your sauna turns Off.

B. Getting started

11) Error codes

EO EO: Temperature Sensor Disconnected. Reset sauna. Unplug and plug back in. Call customer support if needed.

E1 E1: Short circuit. Check all connections.

HH HH: Inside Sauna Temperature is over the limit (170°F/76°C).

HH error will be resolved automatically. During HH error, your sauna will automatically shut down and go into a cool-down period.

12) Customer service

Contact Information for Customer Service:

- Telephone No. : _____ **(800) 983-0067**
- Email : _____ **saunas@finnmarkdesigns.com**

C. Helpful tips for enjoying your sauna sessions

Your Trinity™ is equipped with Spectrum Plus™ infrared heaters. Infrared heat waves reach the body directly without having to heat the air inside the sauna.

Spectrum Plus™ infrared heaters are UL listed to ensure your safety using our sauna is top priority. These heaters will not degrade or fail prematurely like carbon heaters when introduced to a traditional heater's steam. Spectrum Plus™ infrared heaters were specifically manufactured for this purpose.

1) Preparing for your infrared session

- 1. Review all health and safety instructions.** If in doubt as to the advisability of using your sauna, consult with your physician.
- 2.** The interior of the **Trinity™** Sauna is made of the finest Western Canadian Red Cedar. It is aromatic and adds to the enjoyment of your sauna session. If the fragrance of the fresh wood is too strong during the first few months of use, first wipe the wood with a damp cloth to minimize the aroma.
- 3.** Always **drink plenty of water** before, during and after a session. Doing so will replenish fluids lost during perspiration.
- 4.** Do not eat anything at least an hour before your sauna session. It is better to **go in the sauna on an empty stomach**. You are more likely to feel uncomfortable sitting in a sauna with a full stomach.
- 5. Choosing to take a hot shower or bath prior to the sauna session will further promote perspiration.** However, dry off thoroughly before going into the sauna because excessive water will leave stains and might warp the wood.

- 6. Provide at least 2-3 towels.** One towel folded over several times for added cushioning on the bench. Another towel on the floor to absorb extra sweat. And a third towel to wipe off sweat.
- 7. Start up your sauna and select the desired session temperature and time** using the control panel (see page 6 and next page).
- 8. Allow approximately 15 to 20 minutes for the sauna to warm up** to a comfortable temperature before beginning a session (warm up time is subject to the air temperature and is different for each model).

Infrared Temperature (170°F)	Time
Trinity™ 4x4	50-60 Min
Trinity™ 5x7	50-60 Min
Coming Soon	TBD


***Please Note:** Your sauna's maximum temperature setting may not be achieved based on variations in ambient room temperature, air flow, placement of sauna, etc. If you are experiencing unusual warm-up times or if you have recently moved your sauna from one location to another, please call our technical support team for thermostat calibration help.*

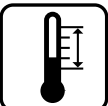
C. Helpful tips for enjoying your sauna sessions

2) Setting session time and temperature

Your body will probably need a few weeks to fully adapt to regular use of your Sauna.

Here are some average guidelines to set the time and temperature once you are used to the sessions:

1.  **Time:**
Noticeable results are usually obtained with sessions of at least 30 minutes. For therapeutic use, sessions of 45 minutes are advised.

2.  **Temperature:**
Many beginners need to start with a lower temperature and work their way up to a higher temperature. Some studies show therapeutic benefits at 163°. Influence Saunas get to 170°. If perspiration does not start after 10 to 15 minutes, this usually indicates that the temperature is set too low to obtain good results.

When using your Sauna for the first time:

- **Do not do more than three sessions a week during the first four weeks.** You can do daily sessions after six weeks, if desired.
- **If you do not feel comfortable or relaxed during a session, lower the temperature** and/or open the door of the cabin.

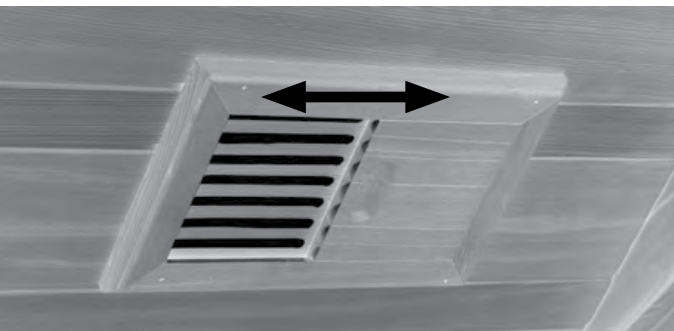
C. Helpful tips for enjoying your sauna sessions

3) Useful information and tips for during your sauna session

- 1. Make sure you have a towel on the floor and on the bench of the sauna to absorb perspiration.**

In order to maintain a clean and pleasant atmosphere inside your sauna, do not leave damp towels on the bench or floor. Remove them immediately after the session is over.

- 2.** Be sure to **towel off excess** sweat during your session to help the body perspire more freely.
- 3.** When the temperature reaches the level set on the control panel, the heaters will turn off and on periodically in order to maintain the desired temperature level inside of the sauna.
- 4.** The **ceiling vent on the top panel can be opened** at any time **to introduce fresh air** into the sauna.



- 5.** If you feel the need for more cooling, simply leave the door **open** until the air around you feels comfortable enough.

- 6. Do not put any lotions or oils on the body or face** prior to using the sauna. This may block the pores and hinder perspiration.

- 7. Essential oils** can help you to find more tranquility during your session.

- 8. To make the most out of your sauna session, work your muscles while in the sauna.** Stretch your arms, legs etc. to help relieve sore and tense muscles and massage the affected areas while in the sauna. If you wish to achieve a deep heating effect to a specific area, move it closer to a heater.

- 9. To relieve your ankles and feet more effectively, you must elevate them while inside the sauna.**

- 10. Shaving your face or legs** with a razor while profusely sweating in a sauna yields an incredibly smooth result without the use of gels or foams.

- 11.** Do not forget to **drink plenty of water** before, during and after sessions to replenish lost fluids through perspiration.

- 12.** After the session is over, **do not immediately jump into the shower.** Since your body was heated up during the session, it will continue to sweat even after the heaters are off. **Sit in the sauna with the door open and let your body cool off.** Once you feel comfortable enough, take a warm (or cool) shower to rinse the perspiration off your body.

D. Safety precautions

1) General safety precautions

1. Read Instructions

- Carefully read all safety and operating instructions before operating your sauna.
- Retain these safety and operating instructions for future reference.
- Do not smoke or light any fire inside your sauna.
- To reduce the risk of injury, do not allow small children to use the sauna unless they are closely supervised at all times.
- Do not use the sauna immediately after hard exercise. Wait at least 30 minutes to allow your body to cool down completely.
- Exercise care when entering or leaving the sauna.
- Never sleep inside the sauna while the unit is in full operation.

- Unplug the sauna from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid cleaners or aerosol cleansers inside the sauna.
- Do not use this product near water. For example, near a bathtub, in a wet basement, or near a swimming pool.
- Do not use attachments that are not recommended by the manufacturer, as they may cause a hazard.
- The sauna must be placed under an awning or overhang to prevent heavy rain falling directly onto the roof or outdoor cover.
- Do not stack or store any objects on top of or inside the sauna.
- Use precaution when using electronic devices.
- Do not install aftermarket devices.

2) Medical and health related precautions

- If you intend to use far infrared therapy for medical reasons, please consult your physician prior to using the sauna.
- Excessive temperatures have a high potential for causing fetal damage during the early months of pregnancy. Pregnant or possibly pregnant women should consult their physician prior to using the sauna.
- The use of alcohol, drugs, or medications prior to or during the sauna session may lead to unconsciousness.
- Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician prior to using the sauna.
- Persons using medications should consult a physician before using the sauna since some medications may induce drowsiness while others may affect heart rate, blood pressure, and circulation.

- At the first sign of a cold or flu, increasing your sauna sessions may be beneficial in boosting your immune system and decreasing the reproductive rate of the viruses. Consult your physician for the proper treatment and care for this, before you start using your sauna.

7. Hyperthermia Danger

Prolonged exposure to hot air will induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F/37°C. While hyperthermia has many health benefits, it is important not to allow your body's core temperature to rise above 103°F/39,4°C. Symptoms of excessive hyperthermia include dizziness, lethargy, drowsiness, and fainting. The effects of excessive hyperthermia may include failure to perceive heat, failure to recognize the need to exit, unawareness of impending hazard, fetal damage in pregnant women, physical inability to exit the sauna, and unconsciousness.

*These statements have not been evaluated by the Food and Drug Administration. These statements are for informational purposes only and are not intended as a substitute for medical counseling. This information is not intended to diagnose, treat, cure, or prevent any disease. The author and publisher shall have neither liability nor responsibility to any person or entity with respect to any loss, damage, or injury caused directly or indirectly by the information contained herein.

D. Safety Precautions

3) Power supply related precautions

- 1. Dry your hands before handling electrical controls.**
Never unplug the power cord or adjust the controls with wet hands or when you have wet bare feet. A danger of electrical shock exists.
- 2. Your sauna is intended for use with a 3-wire properly grounded power socket.** Do not defeat the safety purpose of the supplied line cord and plug.
- 3. This product should be operated only from the type of power source indicated on the marking label.** If you are not sure of the type of power supplied to your home, consult your local power company or electrician.
- 4. Power supply cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them.**
- 5. For added protection during a thunderstorm,** or when it is left unattended and unused for long periods of time, unplug it from the wall outlet.
- 6. Do not overload wall outlets and extension cords** as this can result in a risk of fire or electrical shock.
- 7. Always unplug this product from the wall outlet before servicing the product.**
- 8. Do not remove power supply covers.** No user-serviceable parts are located inside the power supply.
- 9. We strongly recommend the use of a GROUND FAULT CIRCUIT INTERRUPTER (GFCI) device** in any potentially wet locations.

2) Warranty precautions

- 1. When replacement parts are required, be sure to use replacement parts specified by the manufacturer** or have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electrical shock or other hazards and will void the manufacturer's warranty.
- 2. If the power supply cord becomes damaged,** it must immediately be replaced by the manufacturer or its agent or a similarly qualified person to avoid hazard.
- 3. Altering or tampering any electrical connections** on the power supply will void the manufacturer's warranty.
- 4. Do not attempt any repair without consulting the manufacturer first.** Unauthorized repair attempts will void the manufacturer's warranty.
- 5. Your sauna is made of the finest Canadian Cedar. All natural wood products have variations in the color, the grain, and irregularities, such as knots and fine cracks. These characteristics are part of the natural beauty of the wood and in no way should be considered defective.**
- 6. Upon completion of any service or repairs to this product** by a service technician, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

E. Troubleshooting Guide

Question	Answer
<p>Control panel is beeping and showing an error message.</p>	<ul style="list-style-type: none"> • The temperature sensor inside your control panel housing has been disconnected. Remove control panel and confirm the two pin connection is securely fastened.
<p>There is no heat coming from my front heaters.</p>	<ul style="list-style-type: none"> • First thing you want to do is check the white Molex connection inside the sauna. It's located at the top left of the sauna if you're sitting on the bench. You want to make sure that it is plugged in correctly. • Check heater power cable connections on the power supply.
<p>All other Sound System problems:</p>	<ul style="list-style-type: none"> • Unplug the sauna, wait 10 minutes, then plug back in.
<p>What are the electrical requirements for my new sauna?</p>	<ul style="list-style-type: none"> • Trinity™ = 15a 120v 1750 watts • Harvia™ Vega Compact = 20a 120v 1900 watts (need an electrician)
<p>My new sauna is completely dead.</p>	<ul style="list-style-type: none"> • Make sure the power cord is plugged into the sauna power supply and the other end is plugged into the wall socket. • Try pressing breaker button on the sauna power supply. • Unplug the sauna and plug something else, such as a lamp or radio, into the wall socket to verify there is power to that socket. If there is no power, check the house circuit breaker for that line.

E. Troubleshooting Guide

Question	Answer
<p>The controller display is faint or does not display correctly in some other way.</p>	<ul style="list-style-type: none"> • Try unplugging the sauna for about 5 minutes, then plug it back in. This should correct any display problems.
<p>The sound system works, but nothing lights up on the controller display. I unplugged the sauna for 5 minutes but it didn't help.</p>	<ul style="list-style-type: none"> • Check to see that the data cable is plugged in at both ends- the round metal connector plugs into the "DATA" port on the power supply.
<p>The sound system doesn't turn on.</p>	<ul style="list-style-type: none"> • If the problem persists, please contact customer service.
<p>The LED light panel in the ceiling turns on white, but none of the buttons on the remote control work.</p>	<ul style="list-style-type: none"> • Make sure the thin plastic tab is pulled out from the battery holder. • Make sure you are aiming the remote control at the center of the light panel, not at the sauna controller. • Replace the battery in the remote control.

E. Troubleshooting Guide

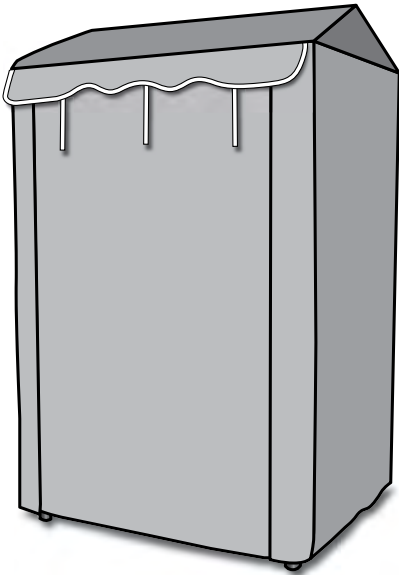
Question	Answer
Wrong A.C. Power cord	<ul style="list-style-type: none"> • Please confirm you are using the correct outlet to power your sauna.
House circuit breaker is tripping.	<ul style="list-style-type: none"> • Check that the amperage of the breaker corresponds with the amperage rating of your sauna. Make sure that the circuit is not overloaded by having too many appliances on one circuit. Please contact a local electrician.
Where is the serial number on my new sauna?	<ul style="list-style-type: none"> • Look for a manufacturer's label under the seat.

Please contact the manufacturer with any other questions regarding customer service or troubleshooting.

(800) 983-0067 | saunas@finnmarkdesigns.com

F. Outdoor Cover

A) Outdoor cover



Important:

1. The sauna must be placed under an awning or overhang to prevent rain falling directly onto the roof.
2. Sauna should be placed on sturdy, dry level ground when outdoors (not grass, gravel, dirt, etc.)
3. The **snap buttons** must be clipped on at all times.
4. The **zippers must be closed** when the sauna is not in use.
6. **Warm up times may vary** based on outdoor temperature.



Please follow these instructions step by step to install your outdoor cover.



G. Limited Warranty

Finmark Designs warrants the Sauna to be free of defects in material and workmanship.

Heaters - Spectrum+	Lifetime
Heaters - Carbon	10 years
Craftsmanship:	10 years
Electrical Components:	10 years
Audio Components:	10 years
Harvia Vega Compact:	2 Years (Residential)
Commercial Use:	5 Years

Company warrants to the user during the warranty period that the Sauna Cabin will maintain its structural integrity. The factory-installed components (i.e., heater controls, power supply, electrical wiring, and audio system) will be free from defects in material or workmanship. This limited warranty shall not apply to any display model unless expressly agreed by **Finmark Designs** in writing at the time of purchase or to any Sauna installed more than six months after the delivery date.

This warranty extends only to the original retail purchaser of the sauna and terminates upon transfer of ownership. It does not extend to commercial or institutional use or installation.

Freight charges to and from the customer are the responsibility of the customer (flat fee). This includes freight charges for parts shipped to enable the services of your sauna.

This warranty is void if the sauna has been subjected to alteration, misuse, abuse, accident, natural disaster or non-factory authorized modification or repair. This warranty is also void if the sauna has been operated or **maintained** in deviation to the published instructions. The warranty extends only to the manufacturing defects and does not cover any damages resulting from mishandling of the product by the owner. This warranty does not cover any normal wear and tear due to usage. This warranty also does not cover any damages caused by natural weather conditions even when the sauna is covered with the factory authorized outside cover. Broken glass and light bulb, whatever the cause, are not covered by this warranty.

Finmark Designs shall not be liable for the loss of use of the sauna or other incidental or consequential damages. Under no circumstances shall Influence Sauna or any of its representatives be held liable for injury to any person or damages to and properties. Some states allow limitations on how long specified warranty lasts. Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state. Specifications are subject to change without notice.



G. Limited Warranty

The warranty period begins on the date the unit is purchased by the user. This warranty may not be transferred, sold, donated, gifted or assigned to a third party except with the prior written consent of **Finnmark Designs**, in its sole and absolute discretion. Absent written consent, only the original purchaser can make claims hereunder. All warranty labor must be performed by **Finnmark Designs** or its designated representative using authorized **Finnmark Designs** parts. No agent, dealer, distributor, service company or other party is authorized to change, modify, or extend the terms of this limited warranty in any manner whatsoever. Any warranty so provided shall be solely their separate obligation. As used in this warranty, "commercial use" shall mean any use that involves a fee, rate, charge, or other consideration, any use directly or indirectly in connection with a business, going concern, or undertaking intended for profit or pecuniary gain, and any non-residential use, "residential use" shall mean when purchased for use by a single-family for internal household purposes, and "user" shall mean the original purchaser.

The limited warranty does not cover defects, damage, or failure ("Damage") caused by the delivery service providers or common carrier, the installer, user, or other persons and animals, including without limitation, termites and other wood-destroying insects or rodents. The limited warranty excludes Damage resulting from transportation, careless handling, improper location, storage, or relocation, as well as from cleaning, painting, staining or other use of abrasive or improper chemicals. The limited warranty also excludes Damage arising from user's or a third party's negligence; modification of any type for any reason (including modification to meet local codes); improper installation (including installation not in accordance with instructions and specifications provided with the unit); connections supplied by the installer of the equipment, an electrician or a third party; improper voltage supply; unauthorized electrical modification; misuse; improper use; abuse; incorrect operation, lack of proper routine or preventive maintenance; unauthorized repair by a third-party; normal wear and tear; fire, and acts of God such as lightning, floods, earthquakes, etc. Outdoor-Use Sauna warranties do not include damage arising from a failure (i) to maintain the Sauna on a flat, level, hardtop surface with adequate drainage and (ii) to keep the exterior free and clear from plants, trees, grasses, soil, and snow deposits.



G. Limited Warranty

For your record, please complete the following information.
You will need to refer to this information when calling customer service:

Date of Purchase: _____

Date of Delivery: _____

Model Number: _____

Serial Number: _____

Dealer Information (Name & Telephone): _____

Phone #: (800) 983-0067

Email: saunas@finnmarkdesigns.com

finnmarkdesigns.com

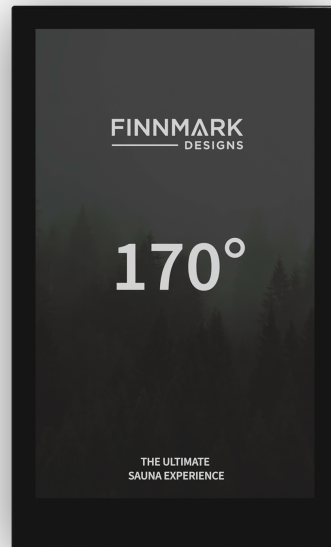


(800) 983-0067 | finnmarkdesigns.com



Operation Manual

V2 LCD Controller with WiFi



Operating instructions for your V2 Touchscreen Controller

Guidelines and helpful tips

Congratulations on your purchase of your Finnmark Designs LCD touchscreen controller. We are confident that you will enjoy the many benefits of infrared therapy for years to come.

Carefully read this manual before using your controller for the first time. We recommend keeping this manual for review and future reference.

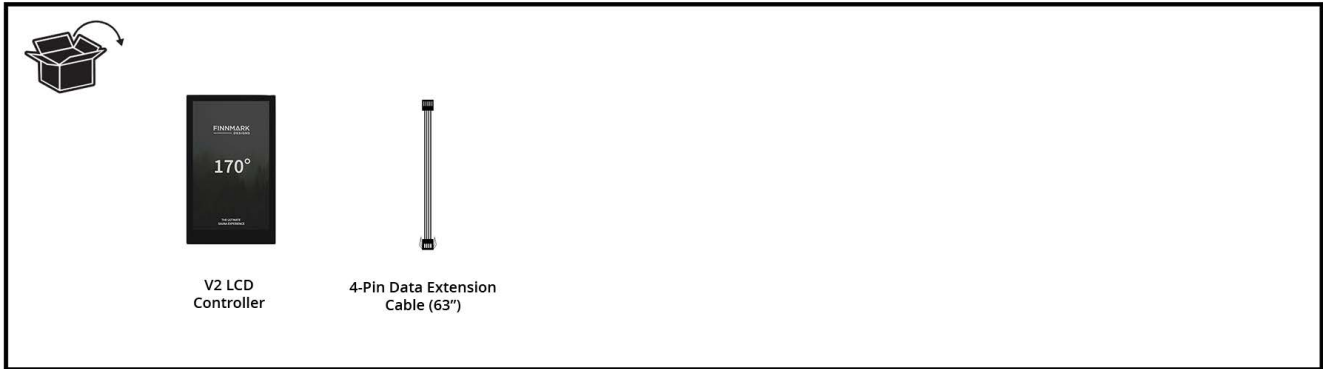
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A	Included & Dimensions	3
B	Infrared Sauna Spacing	4
C	Combination Sauna Spacing	5
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E	Controller Operation	7
F	Helpful tips for enjoying your sauna sessions	14
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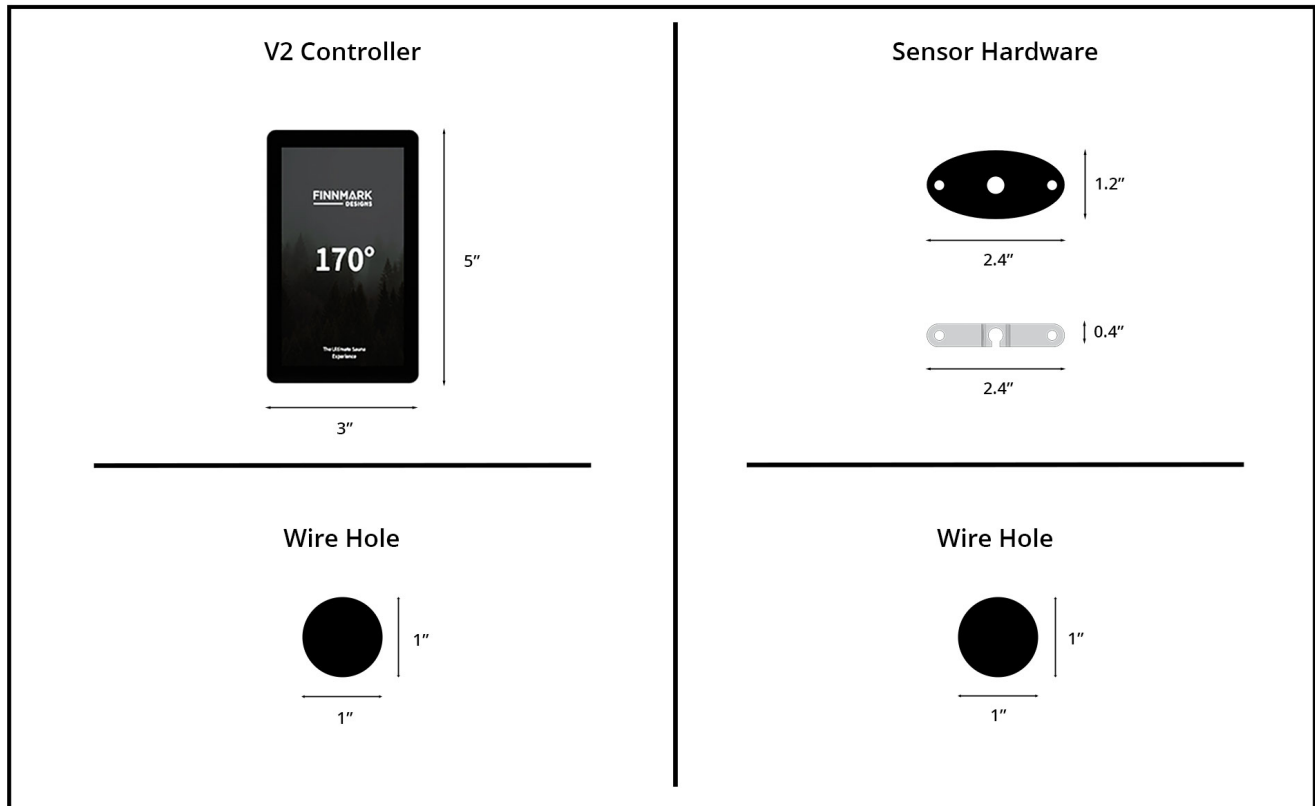
The information contained in this manual is subject to change without notice.

A. Included & Dimensions

1) What's Included

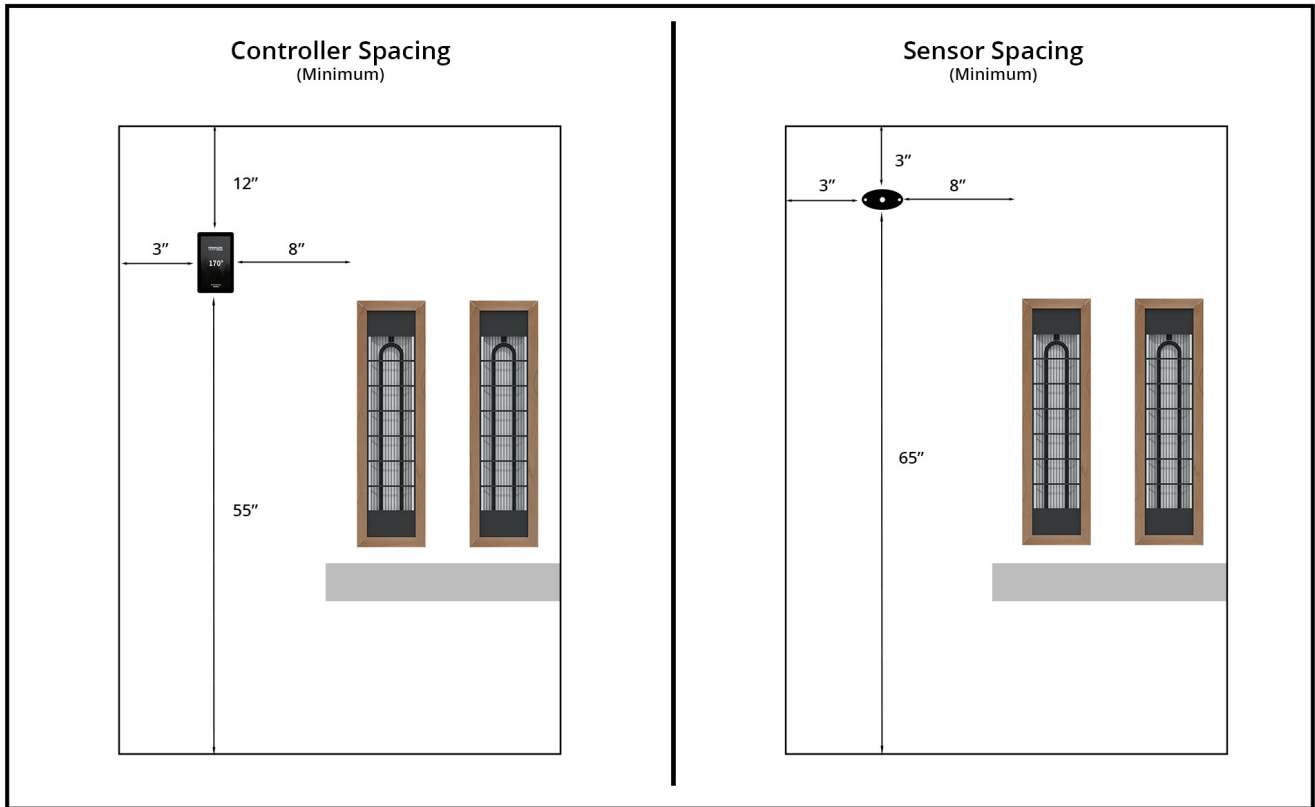


2) Dimensions



B. Infrared Sauna Spacing

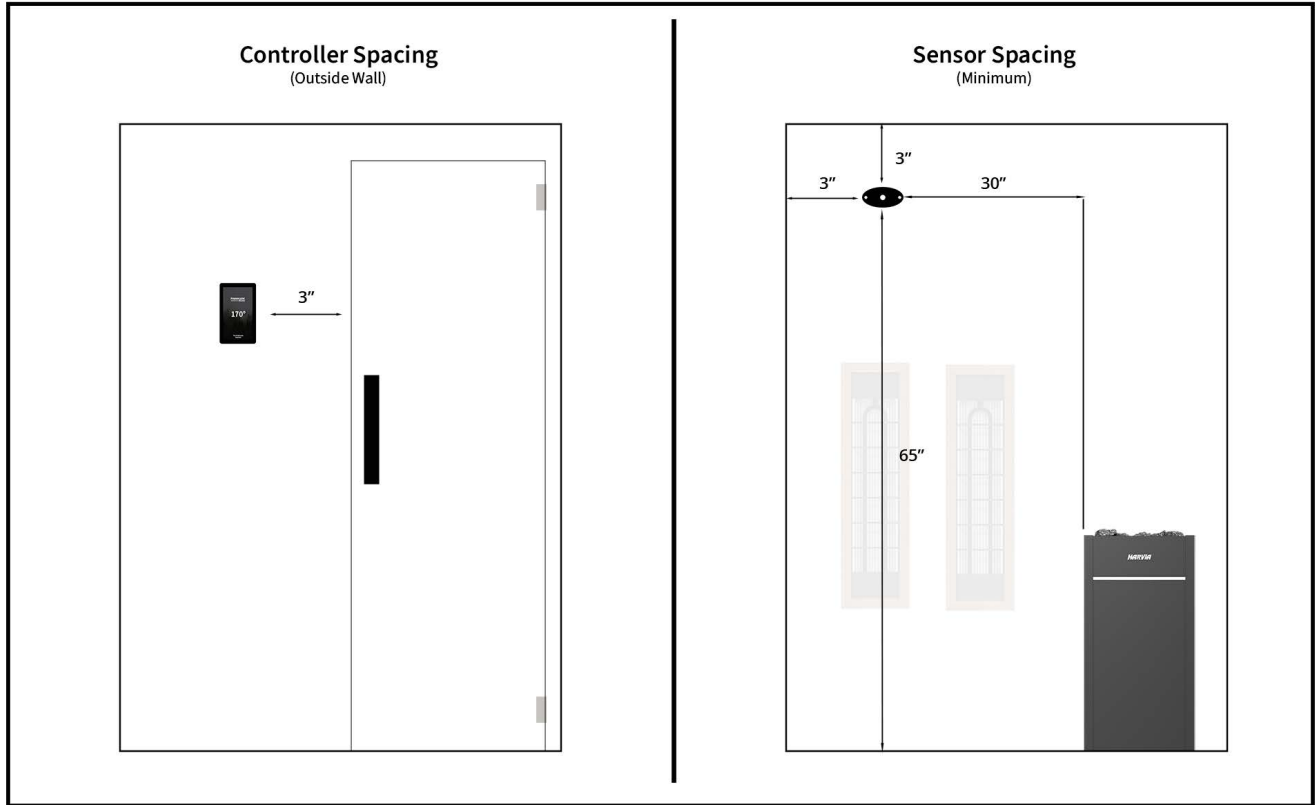
1) Infrared Spacing



Follow this sauna spacing guide if you are only using Spectrum Plus™ or Spectrum Carbon™ Infrared sauna heaters for your custom infrared sauna.

C. Combination Sauna Spacing

1) Combination Spacing



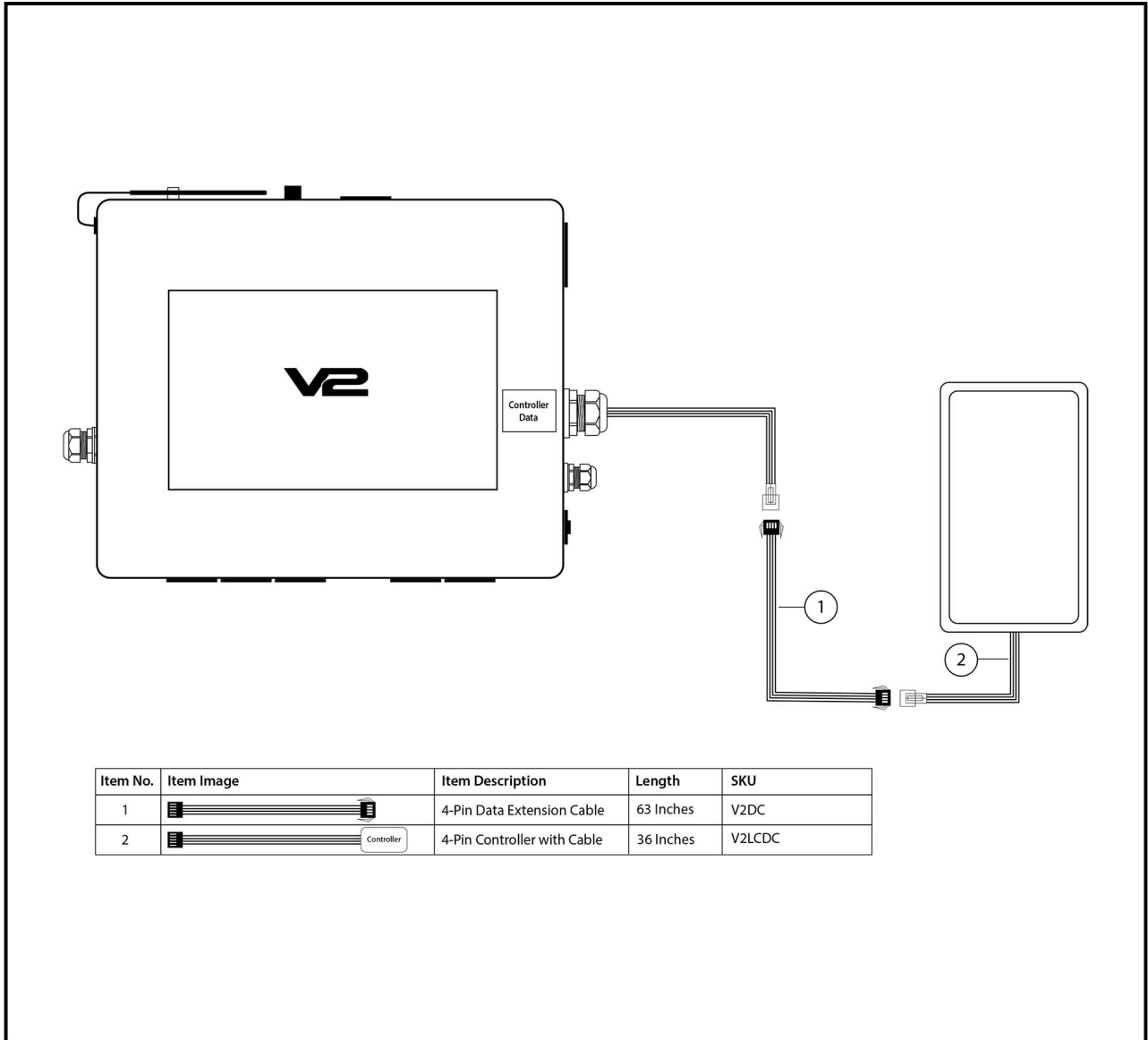
Follow this sauna spacing guide if you are using Spectrum Plus™ infrared sauna heaters combined with a traditional steam heater.

Controller must be mounted on the exterior of the sauna for all saunas built inside a building.

Controller must be covered if installed outdoors.

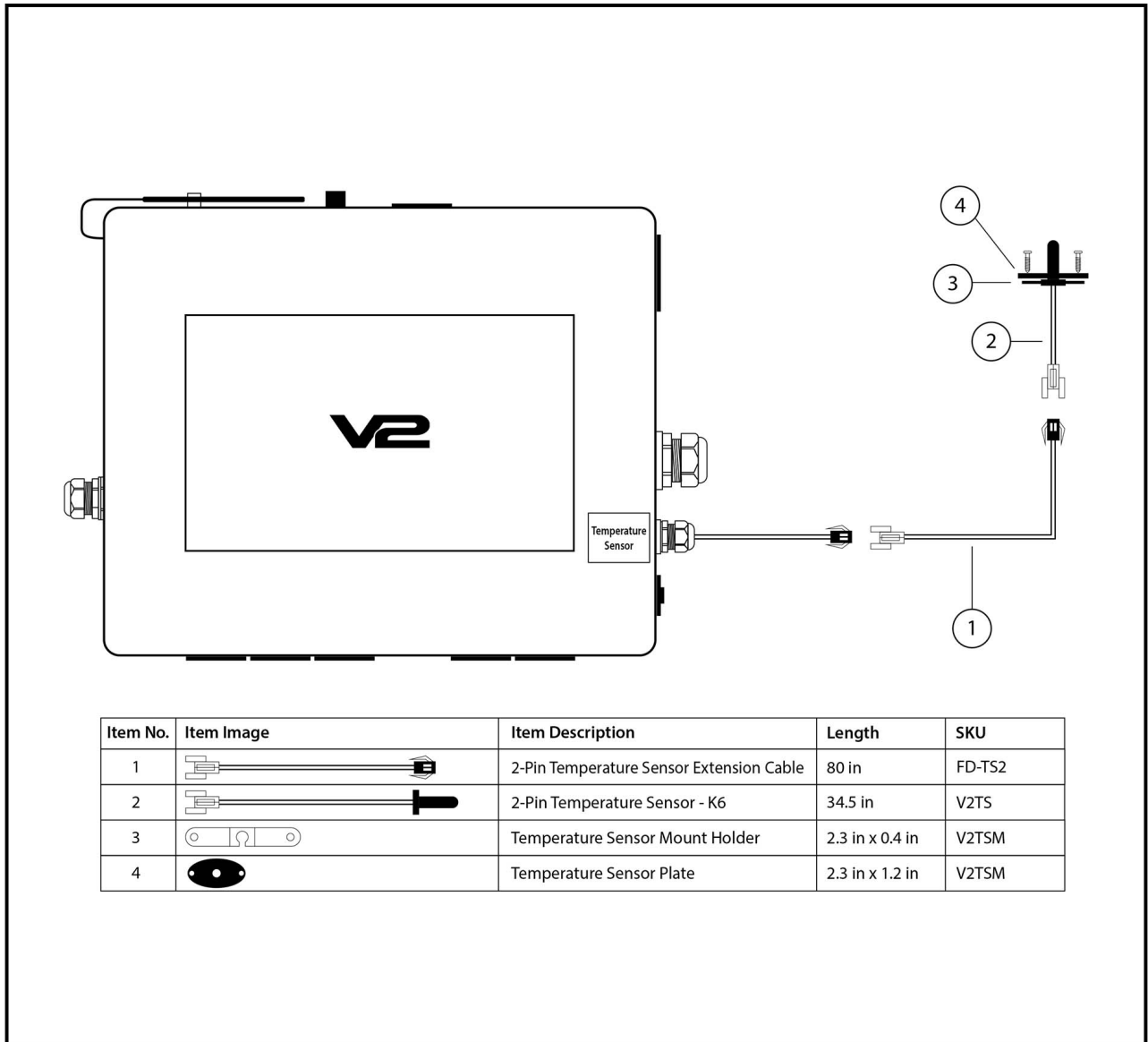
D. Wiring Guides

1) Controller Wiring



D. Wiring Guides

1) Temperature Sensor Wiring

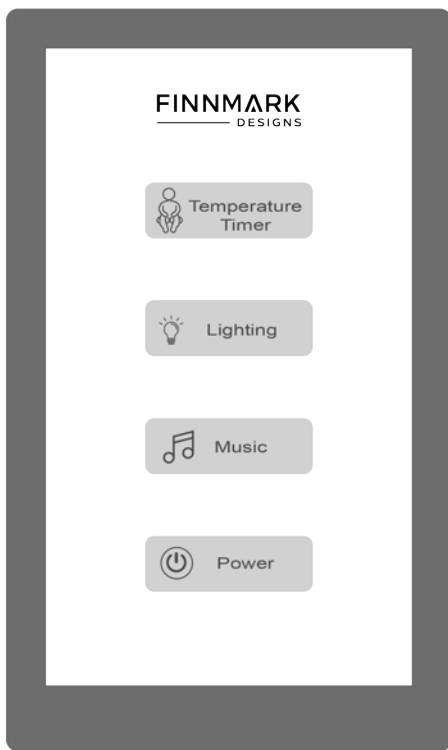


E. Controller Operation

1) Preparing for your first infrared sauna home experience

1. Review all health and safety instructions. If you're in doubt about using your infrared sauna, first consult with your physician.

2) LCD control panel



Temperature | Timer
Set time and temperature

Lighting
Adjust lighting

Music Bluetooth
Connect sauna to bluetooth

Power Button
Turn sauna off

E. Controller Operation

3) Powering on your sauna

1. Plug in the power cord to the electrical outlet. All lights on the LED Control Panel will flash once.
2. During Off mode, nothing will display.
3. We recommend turning the sauna on for the maximum time and temperature in order to burn off any factory dust before using your sauna for the first time. For maximum performance of the heaters, cycle your sauna (turn on to max temperature and run for one hour) 2-3 times.

4) Starting up your sauna

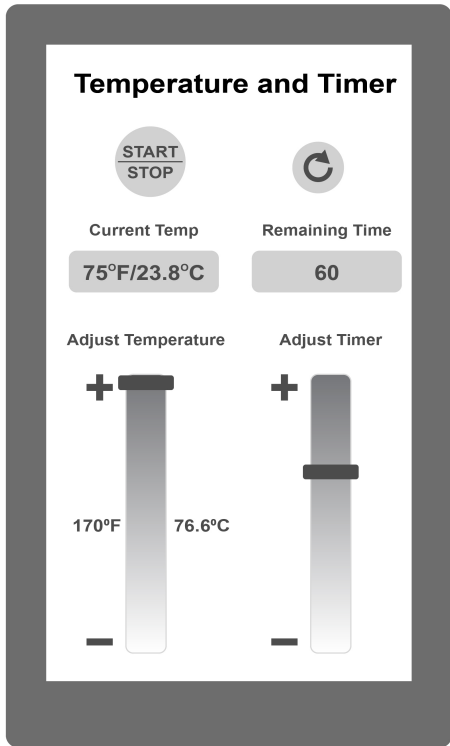
- A. Hold your index finger on the bottom left side of the LCD screen until the controller turns itself on.



The controller is touch sensitive, so you must hold down the power button for 2-seconds.

E. Controller Operation

5) Setting the sauna session time and temperature



Start / Stop
Start and stop heat and timer

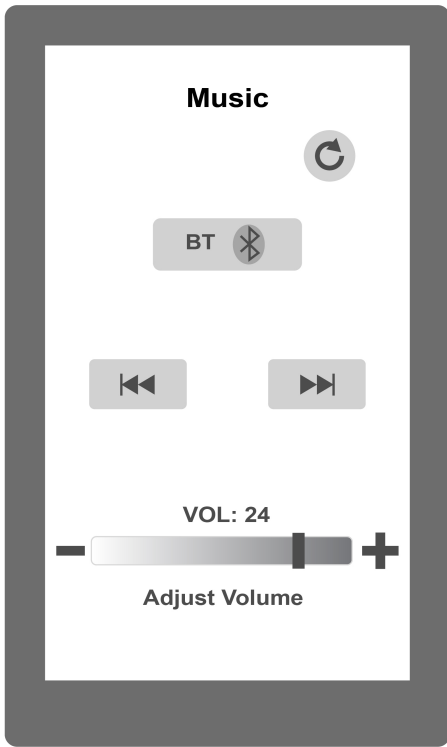
Return to Home
Go back to home screen

Adjust Temperature
Use slider or + - buttons

Adjust Timer
Use slider or + - buttons

E. Controller Operation

6) Using Bluetooth



Return to home
Return to home screen

Pair your bluetooth device
Press to pair your device

Select track
Previous and next trackk

Adjust volume
Increase or decrease volume

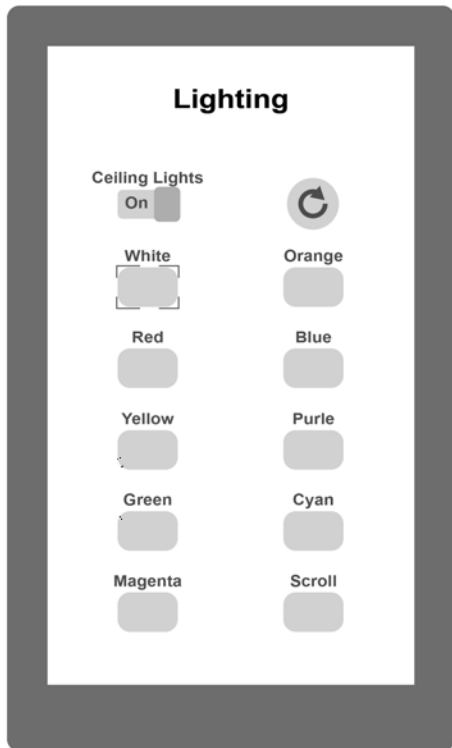
Your Bluetooth device should see BT-SAUNA after you select the BT button on the controller.

NOTE: Due to safety regulations, only one Bluetooth device can be connected to your saunas controller.

You must disconnect one device to use the other.

E. Controller Operation

7) Controlling the multi-color and Red light



Power ceiling lights
Select slider to turn lights on /off

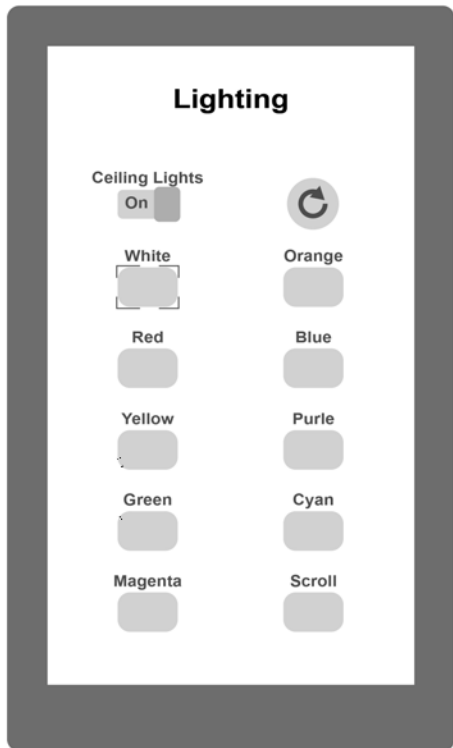
Return to home
Return to home screen

Select color
Select desired color

Scroll
Use finger to scroll different colors

E. Controller Operation

7) Controlling the multi-color and Red light



Power ceiling lights
Select slider to turn lights on /off

Return to home
Return to home screen

Select color
Select desired color

Scroll
Use finger to scroll different colors

E. Controller Operation

9) Error codes

EO EO: Temperature Sensor Disconnected. Reset sauna. Unplug and plug back in. Call customer support if needed.

E1 E1: Short circuit. Check all connections.

HH HH: Inside Sauna Temperature is over the limit (170°F/76°C).

HH error will be resolved automatically. During HH error, your sauna will automatically shut down and go into a cool-down period.

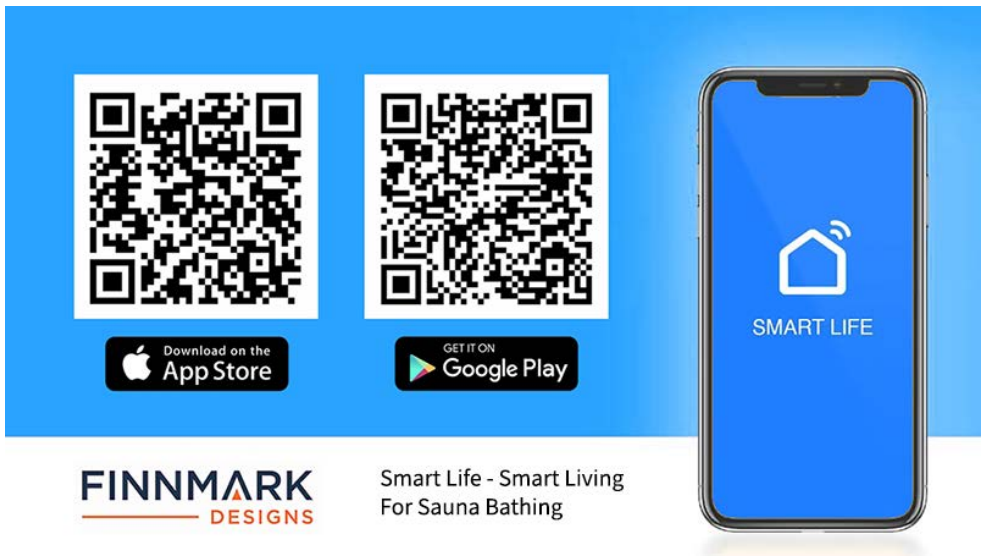
Customer service

Contact Information for Customer Service:

• Telephone No. : _____ **(800) 983-0067**
• Email : _____ **support@finnmarkdesigns.com**

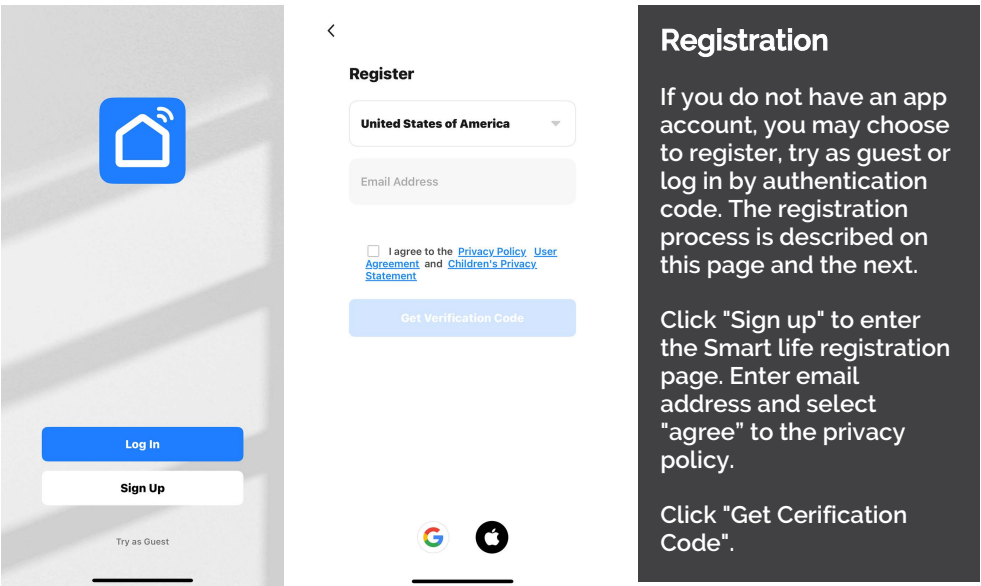
E. WiFi Operation

10) Download Smart Life App



A promotional banner for the Smart Life app. It features two QR codes on the left, one for the App Store and one for Google Play. Below each QR code is a corresponding download button. To the right is a smartphone displaying the Smart Life app interface, which includes a house icon with a Wi-Fi signal and the text "SMART LIFE". At the bottom left is the FINNMARK DESIGNS logo, and at the bottom center is the text "Smart Life - Smart Living For Sauna Bathing".

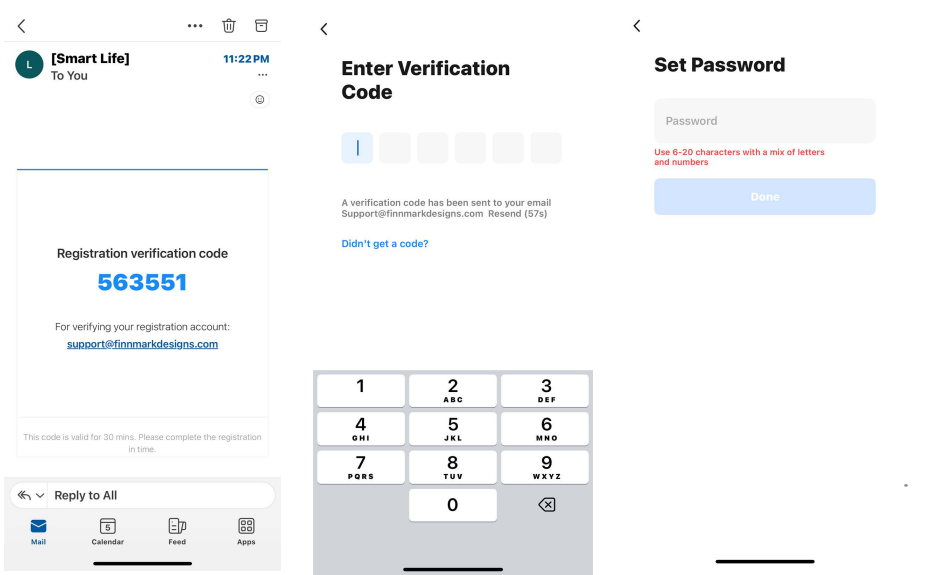
11) Registration



The registration process is shown in three parts. On the left is a vertical screenshot of the app's login screen, featuring a house icon with a Wi-Fi signal, a "Log In" button, a "Sign Up" button, and a "Try as Guest" link. In the middle is a screenshot of the registration form, titled "Register". It includes a dropdown menu for "United States of America", an "Email Address" input field, a checkbox for "I agree to the Privacy Policy, User Agreement and Children's Privacy Statement", and a "Get Verification Code" button. On the right is a dark grey text box with the following instructions: "Registration", "If you do not have an app account, you may choose to register, try as guest or log in by authentication code. The registration process is described on this page and the next.", "Click 'Sign up' to enter the Smart life registration page. Enter email address and select 'agree' to the privacy policy.", and "Click 'Get Cerification Code'".

E. WiFi Operation

12) Verification Code / Password



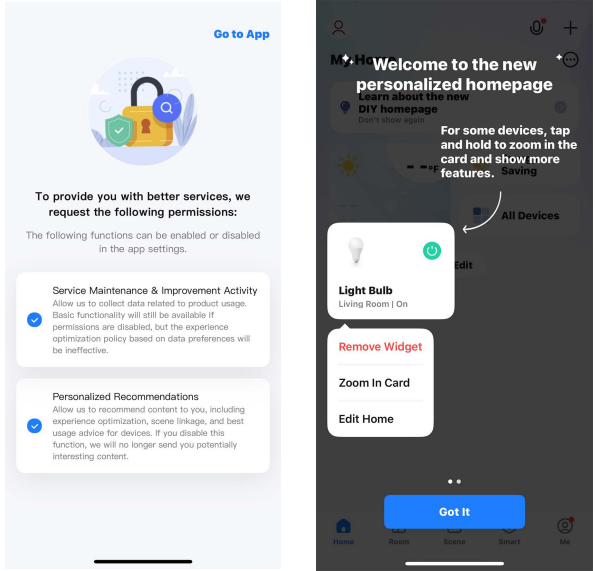
Verification Code / Password

Open the email account you registered with, then open the email sent from Smart Life. Copy the verification code.

Return to the smart life app and paste your verification code.

Set your account password and select "Done".

13) Permissions / Welcome



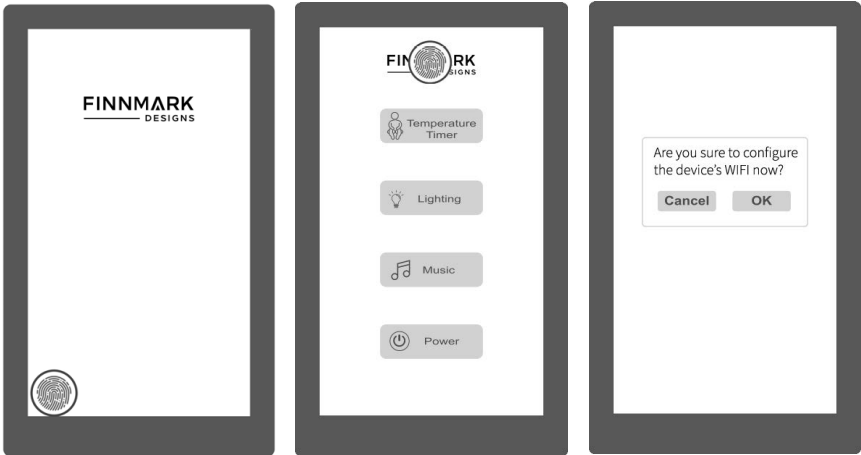
Permissions / Welcome

Select permissions and clickk "Go to App" located top right.

Select "Got Itt" on next screen.

E. WiFi Operation

14) Turn On Controller / Confirm WiFi



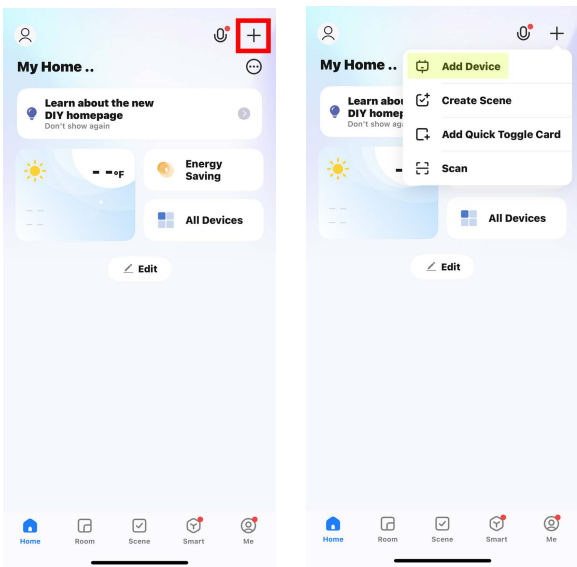
Turn On Controller / Confirm WiFi

Press and hold finger on bottom left of controller to turn on.

Press and hold the Finnmark Design's logo to activate the WiFi screen.

Select "OK" to configure WiFi.

15) Add Device



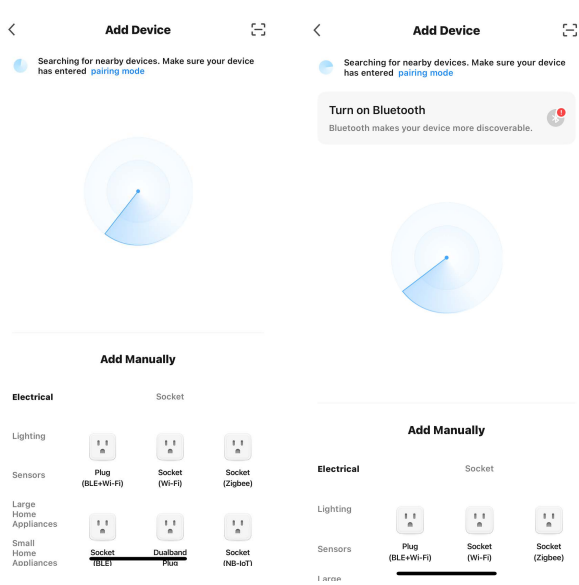
Add Device

Select the "+" symbol on the top right of the screen.

Select "Add Device" on the call out window.

E. WiFi Operation

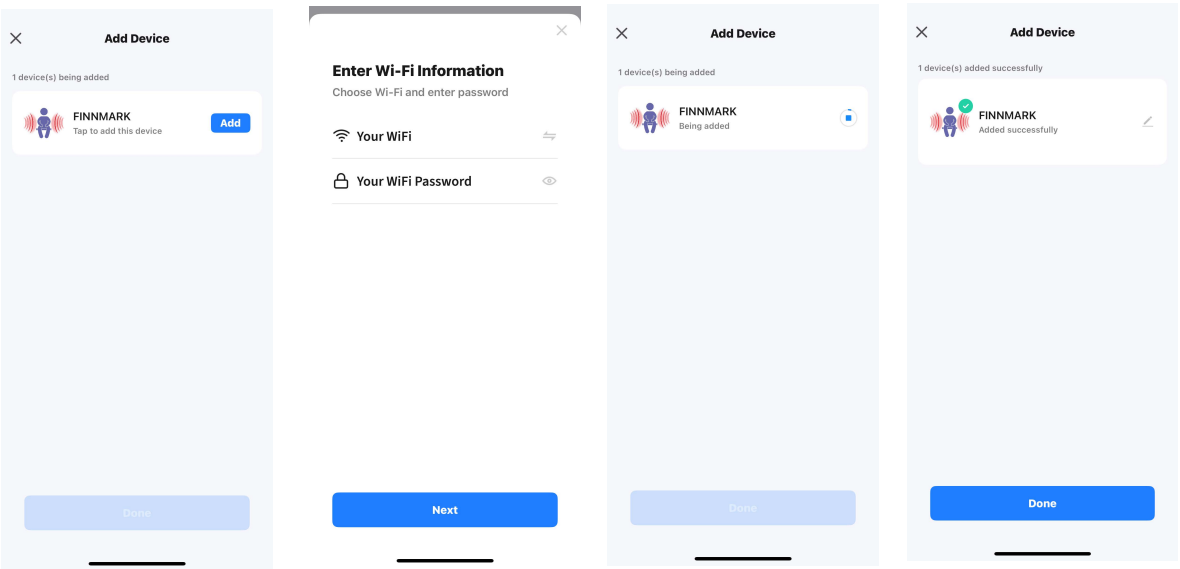
16) Add Device / Bluetooth



Add Device / Bluetooth
 You must have BLUETOOTH turned ON with your device.



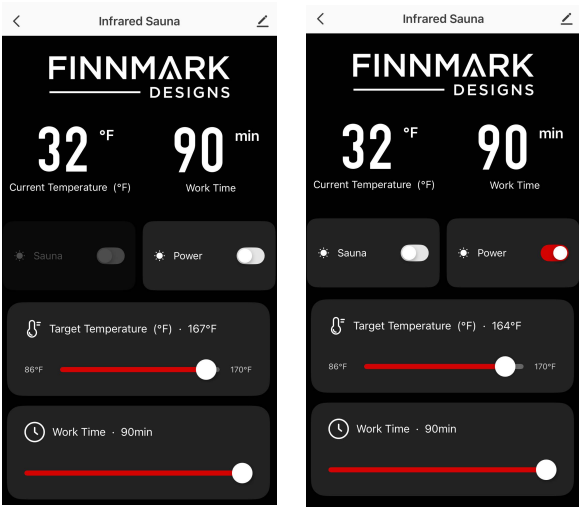
17) Add Device



Add Device
 Select "Add".
 Enter your WiFi name and WiFi password.
 Select "Next" button.
 The Finnmark App will begin to download.
 Download time depends on current internet speed.
 Select "Done" when App is finished downloading.

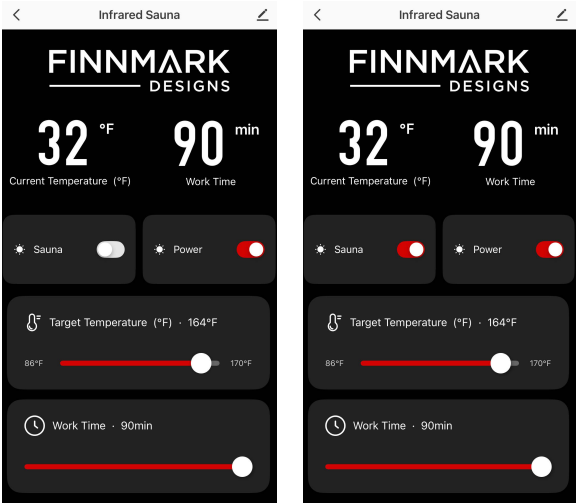
E. WiFi Operation

18) Turn On Controller



Turn On Controller
 Select "Power" to turn on the controller within the sauna.
NOTE: This only turns on the controller, not sauna's heaters.

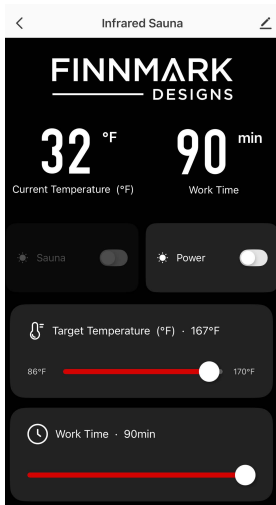
19) Turn On Sauna Heaters



Turn On Sauna Heaters
 Select "Sauna" to turn on the sauna's Heaters

E. WiFi Operation

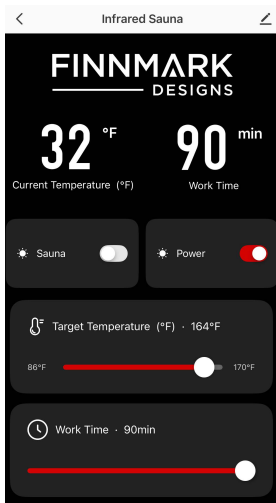
20) Set Target Temperature



Set Target Temperature

Use slider to set max temperature

21) Set Work Time

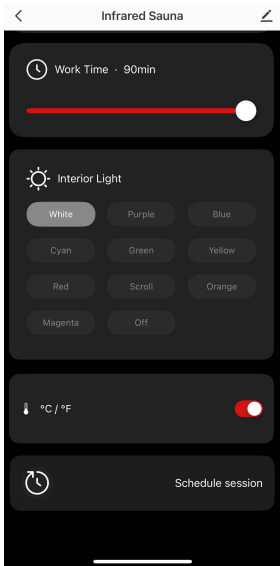


Set Work Time

Use slider to set max time for sauna session.

E. WiFi Operation

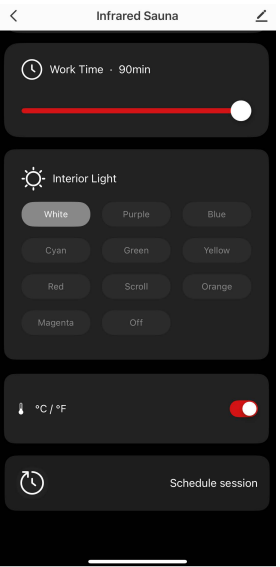
22) Lighting



Lighting Control
Select the color by pressing the desired button.

Select "Off" to turn sauna lighting off.

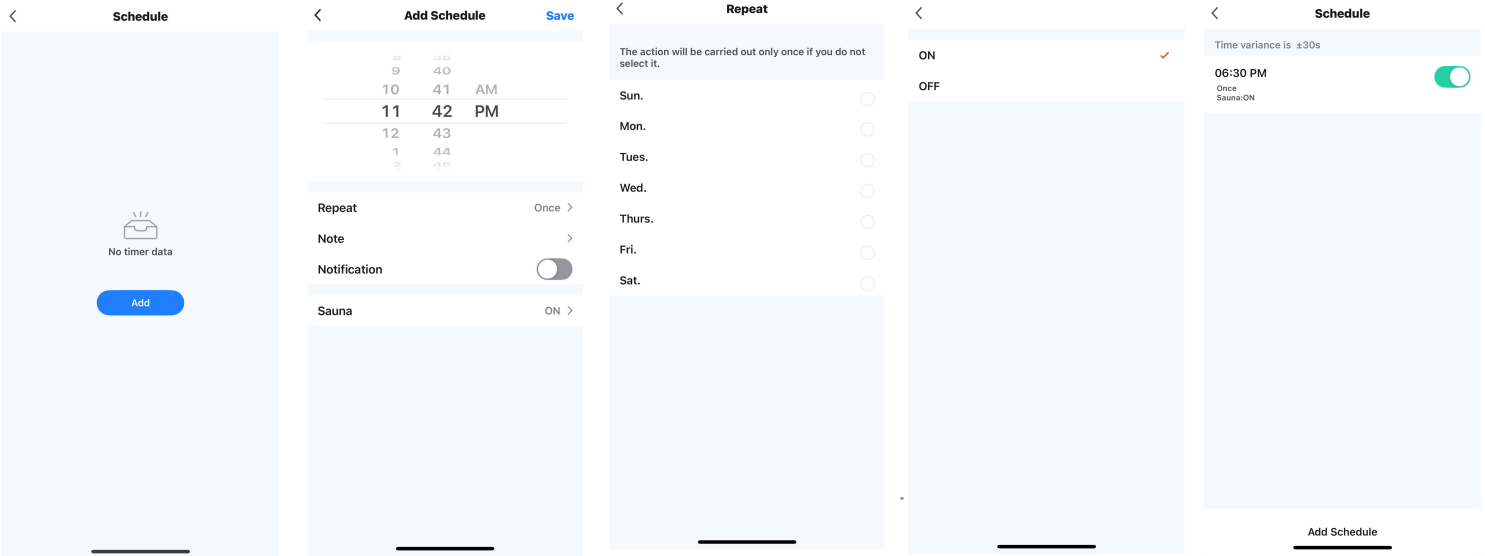
23) Set Sauna to Celsius or Fahrenheit



Set Sauna to Celsius or Fahrenheit
Toggle button to select desired temperature classification.

E. WiFi Operation

24) Scheduling Sauna Sessions



Schedule
 Select "Add" to schedule sauna session.

Add Schedule
 Select time you would like the sauna to turn on or off.

 Current timezone is automatically applied. If timezone is not correct, create an account with Smart Life to add current sauna location.

Repeat Schedule
 Select days you would like to repeat the schedule made.

 For single use, do not select repeat form the scheduling menu.

On / Off
 Select if you want the sauna to turn on or off for desired schedule.

 The sauna has a built in timer of 90 minutes. Set the schedule to off if your session will be less than 90 minutes.


Schedule Variants
 You can set multiple schedules and toggle them to be on or off.

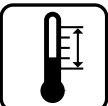
F. Helpful tips for enjoying your sauna sessions

2) Setting session time and temperature

Your body will probably need a few weeks to fully adapt to regular use of infrared sauna bathing.

Here are some average guidelines to set the time and temperature once you are used to the sessions:

1.  **Time:**
Noticeable results are usually obtained with sessions of at least 30 minutes. For therapeutic use, sessions of 45 minutes are advised.

2.  **Temperature:**
Many beginners need to start with a lower temperature and work their way up to a higher temperature. Some studies show therapeutic benefits at 163°. Finnmark Designs Saunas get to 170°. If perspiration does not start after 10 to 15 minutes, this usually indicates that the temperature is set too low to obtain good results.

When using infrared for the first time:

Do not do more than three sessions a week during the first four weeks. You can do daily sessions after six weeks, if desired.

If you do not feel comfortable or relaxed during a session, lower the temperature and/or open the door of the cabin.

Using the traditional heater:

Do not pour water on rocks until the heater has reached set temperature.

Start with a small amount of water and slowly pour to create steam. Do not over pour water. If water is accumulating on the floor, you are using too much water.

Read the traditional heater's operating instructions for proper usage.

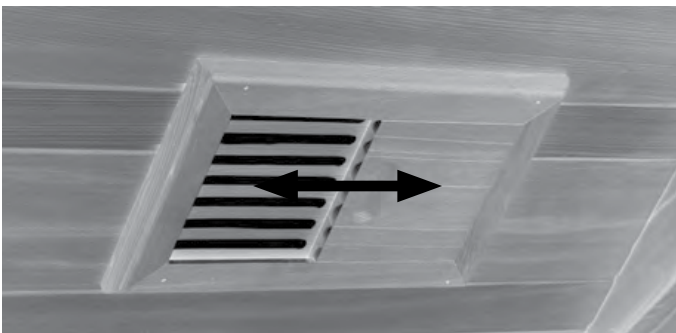
F. Helpful tips for enjoying your sauna sessions

3) Useful information and tips for during your sauna session

1. **Make sure you have a towel on the floor and on the bench of the sauna to absorb perspiration.**

In order to maintain a clean and pleasant atmosphere inside your sauna, do not leave damp towels on the bench or floor. Remove them immediately after the session is over.

2. Be sure to **towel off excess** sweat during your session to help the body perspire more freely.
3. When the temperature reaches the level set on the control panel, the heaters will turn off and on periodically in order to maintain the desired temperature level inside of the sauna.
4. The **ceiling vent on the top panel can be opened** at any time **to introduce fresh air** into the sauna.



5. **If you feel the need for more cooling, simply leave the door open** until the air around you feels comfortable enough.

6. **Do not put any lotions or oils on the body or face** prior to using the sauna. This may block the pores and hinder perspiration.

7. **Essential oils** can help you to find more tranquility during your session.

8. **To make the most out of your sauna session, work your muscles while in the sauna.** Stretch your arms, legs etc. to help relieve sore and tense muscles and massage the affected areas while in the sauna. If you wish to achieve a deep heating effect to a specific area, move it closer to a heater.

9. **To relieve your ankles and feet more effectively, you must elevate them while inside the sauna.**

10. **Shaving your face or legs** with a razor while profusely sweating in a sauna yields an incredibly smooth result without the use of gels or foams.

11. Do not forget to **drink plenty of water** before, during and after sessions to replenish lost fluids through perspiration.

12. After the session is over, **do not immediately jump into the shower.** Since your body was heated up during the session, it will continue to sweat even after the heaters are off. **Sit in the sauna with the door open and let your body cool off.** Once you feel comfortable enough, take a warm (or cool) shower to rinse the perspiration off your body.

G. Safety precautions

1) General safety precautions

1. Read Instructions

- Carefully read all safety and operating instructions before operating your sauna.
- Retain these safety and operating instructions for future reference.
- Do not smoke or light any fire inside your sauna.
- To reduce the risk of injury, do not allow small children to use the sauna unless they are closely supervised at all times.
- Do not use the sauna immediately after hard exercise. Wait at least 30 minutes to allow your body to cool down completely.
- Exercise care when entering or leaving the sauna.
- Never sleep inside the sauna while the unit is in full operation.

- Unplug the sauna from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid cleaners or aerosol cleansers inside the sauna.
- Do not use this product near water. For example, near a bathtub, in a wet basement, or near a swimming pool.
- Do not use attachments that are not recommended by the manufacturer, as they may cause a hazard.
- The sauna must be placed under an awning or overhang to prevent heavy rain falling directly onto the roof or outdoor cover.
- Do not stack or store any objects on top of or inside the sauna.
- Use precaution when using electronic devices.
- Do not install aftermarket devices.

2) Medical and health related precautions

- If you intend to use far infrared therapy for medical reasons, please consult your physician prior to using the sauna.
- Excessive temperatures have a high potential for causing fetal damage during the early months of pregnancy. Pregnant or possibly pregnant women should consult their physician prior to using the sauna.
- The use of alcohol, drugs, or medications prior to or during the sauna session may lead to unconsciousness.
- Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician prior to using the sauna.
- Persons using medications should consult a physician before using the sauna since some medications may induce drowsiness while others may affect heart rate, blood pressure, and circulation.

- At the first sign of a cold or flu, increasing your sauna sessions may be beneficial in boosting your immune system and decreasing the reproductive rate of the viruses. Consult your physician for the proper treatment and care for this, before you start using your sauna.

7. Hypothermia Danger

Prolonged exposure to hot air will induce hypothermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F/37°C. While hypothermia has many health benefits, it is important not to allow your body's core temperature to rise above 103°F/39.4°C. Symptoms of excessive hypothermia include dizziness, lethargy, drowsiness, and fainting. The effects of excessive hyperthermia may include failure to perceive heat, failure to recognize the need to exit, unawareness of impending hazard, fetal damage in pregnant women, physical inability to exit the sauna, and unconsciousness.

*These statements have not been evaluated by the Food and Drug Administration. These statements are for informational purposes only and are not intended as a substitute for medical counseling. This information is not intended to diagnose, treat, cure, or prevent any disease. The author and publisher shall have neither liability nor responsibility to any person or entity with respect to any loss, damage, or injury caused directly or indirectly by the information contained herein.

© Finnmark Designs

G. Safety Precautions

3) Power supply related precautions

1. Dry your hands before handling electrical controls.

Never unplug the power cord or adjust the controls with wet hands or when you have wet bare feet. A danger of electrical shock exists.

2. Your sauna is intended for use with a 3-wire properly grounded power socket. Do not defeat the safety purpose of the supplied line cord and plug.

3. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company or electrician.

4. Power supply cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them.

5. For added protection during a thunderstorm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet.

6. Do not overload wall outlets and extension cords as this can result in a risk of fire or electrical shock.

7. Always unplug this product from the wall outlet before servicing the product.

8. Do not remove power supply covers. No user-serviceable parts are located inside the power supply.

9. We strongly recommend the use of a GROUND FAULT CIRCUIT INTERRUPTER (GFCI) device in any potentially wet locations.

2) Warranty precautions

1. When replacement parts are required, be sure to use replacement parts specified by the manufacturer or have the same characteristics as the original parts.

Unauthorized substitutes may result in fire, electrical shock or other hazards and will void the manufacturer's warranty.

2. If the power supply cord becomes damaged, it must immediately be replaced by the manufacturer or its agent or a similarly qualified person to avoid hazard.

3. Altering or tampering any electrical connections on the power supply will void the manufacturer's warranty.

4. Do not attempt any repair without consulting the manufacturer first. Unauthorized repair attempts will void the manufacturer's warranty.

5. Your Finnmark Designs is made of the finest Canadian Cedar. **All natural wood products have variations in the color, the grain, and irregularities, such as knots and fine cracks.**

These characteristics are part of the natural beauty of the wood and in no way should be considered defective.

6. Upon completion of any service or repairs to this product by a service technician, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

H. Troubleshooting Guide

Question	Answer
<p>The controller screen is blank after I plugged in the power supply.</p>	<ul style="list-style-type: none"> Your new controller requires you to touch and hold the bottom left of the LCD screen to activate.
<p>After pressing and holding the screen, the controller still doesn't turn on.</p>	<ul style="list-style-type: none"> Check the data cable connections. Ensure the connections are firmly together and there are no broken pins. Check the power supply internal breaker. Loose = not tripped. Push in and reset if not loose. Check power outlet to ensure your power supply is receiving power. Remove the data cable from the controller for 5 minutes to manually reset.
<p>My Bluetooth device is not connecting.</p>	<ul style="list-style-type: none"> Remove sauna from all Bluetooth devices and try to connect again. Make sure your phone's operating system is up to date.
<p>The scroll feature on the lighting screen doesn't work.</p>	<ul style="list-style-type: none"> The scroll feature on the V2 LCD controller requires the Spectrum LED Plus lighting system.
<p>My LCD screen shut off during an infrared session.</p>	<ul style="list-style-type: none"> The LCD screen has an internal protection switch that automatically shuts off the controller if heat reaches higher than 198 degrees fahrenheit. Please follow installation guidelines and safe distances between your controller and any heating source.



I. Limited Warranty

Finnmark Designs warrants the Controller to be free of defects in material and workmanship.

.....
Residential	10 Years
.....
Commercial	5 Years
.....

Company warrants to the user during the warranty period that the Controller will maintain its structural integrity. The factory-installed electrical components will be free from defects in material or workmanship. This limited warranty shall not apply to any display model unless expressly agreed by Finnmark Designs in writing at the time of purchase or to any controller installed more than six months after the delivery date.

This warranty extends only to the original retail purchaser of the controller and terminates upon transfer of ownership. It does not extend to commercial or institutional use or installation.

Freight charges to and from the customer are the responsibility of the customer (flat fee). This includes freight charges for parts shipped to enable the services of your controller.

This warranty is void if the controller has been subjected to alteration, misuse, abuse, accident, natural disaster or non-factory authorized modification or repair. This warranty is also void if the controller has been operated or maintained in deviation to the published instructions. The warranty extends only to the manufacturing defects and does not cover any damages resulting from mishandling of the product by the owner. This warranty does not cover any normal wear and tear due to usage. This warranty also does not cover any damages caused by natural weather conditions even when the controller is fully covered outdoors.

Finnmark Designs shall not be liable for the loss of use of the controller or other incidental or consequential damages. Under no circumstances shall Finnmark Designs or any of its representatives be held liable for injury to any person or damages to and properties. Some states allow limitations on how long specified warranty lasts. Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state. Specifications are subject to change without notice.



I. Limited Warranty

The warranty period begins on the date the unit is purchased by the user. This warranty may not be transferred, sold, donated, gifted or assigned to a third party except with the prior written consent of Finnmark Designs, in its sole and absolute discretion. Absent written consent, only the original purchaser can make claims hereunder. All warranty labor must be performed by Finnmark Designs or its designated representative using authorized Finnmark Designs parts. No agent, dealer, distributor, service company or other party is authorized to change, modify, or extend the terms of this limited warranty in any manner whatsoever. Any warranty so provided shall be solely their separate obligation. As used in this warranty, "commercial use" shall mean any use that involves a fee, rate, charge, or other consideration, any use directly or indirectly in connection with a business, going concern, or undertaking intended for profit or pecuniary gain, and any non-residential use, "residential use" shall mean when purchased for use by a single-family for internal household purposes, and "user" shall mean the original purchaser.

The limited warranty does not cover defects, damage, or failure ("Damage") caused by the delivery service providers or common carrier, the installer, user, or other persons and animals, including without limitation, termites and other electronic-destroying insects or rodents. The limited warranty excludes Damage resulting from transportation, careless handling, improper location, storage, or relocation, as well as from cleaning, painting, staining or other use of abrasive or improper chemicals. The limited warranty also excludes Damage arising from user's or a third party's negligence; modification of any type for any reason (including modification to meet local codes); improper installation (including installation not in accordance with instructions and specifications provided with the unit); connections supplied by the installer of the equipment, an electrician or a third party; improper voltage supply; unauthorized electrical modification; misuse; improper use; abuse; incorrect operation, lack of proper routine or preventive maintenance; unauthorized repair by a third-party; normal wear and tear; fire, and acts of God such as lightning, floods, earthquakes, etc.

The limited warranty covers shipping fees for replacement components within 30 days of receiving the sauna. Shipping fees for replacement components after 30-days of sauna receipt are the responsibility of the customer.



I. Limited Warranty

For your record, please complete the following information.
You will need to refer to this information when calling customer service:

Date of Purchase: _____

Date of Delivery: _____

Model Number: _____

Serial Number: _____

Dealer Information (Name & Telephone): _____

Phone : (800) 983-0067

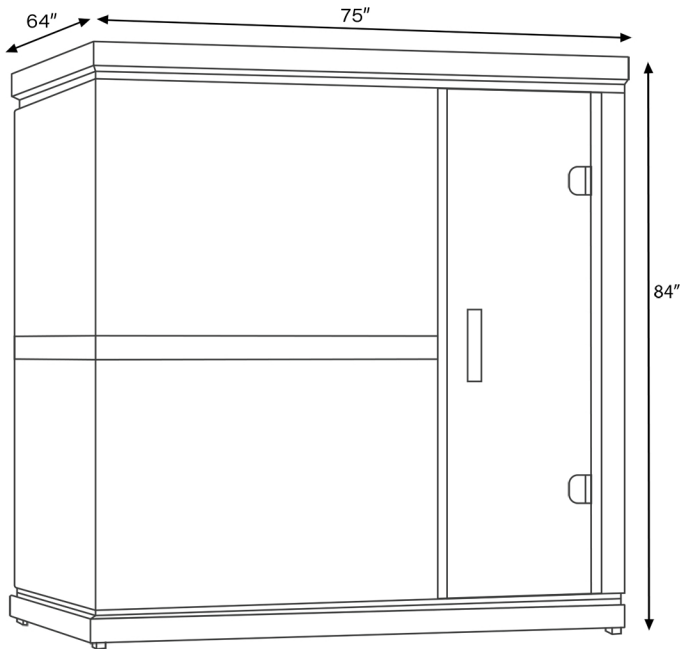
Email:

support@FinnmarkDesigns.com

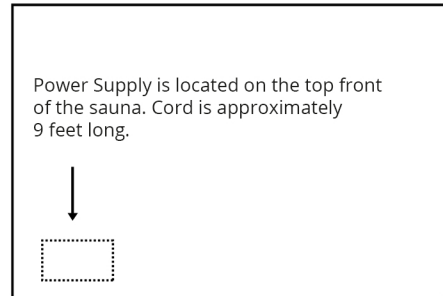
FinnmarkDesigns.com



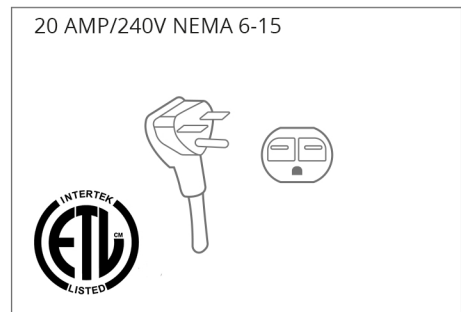
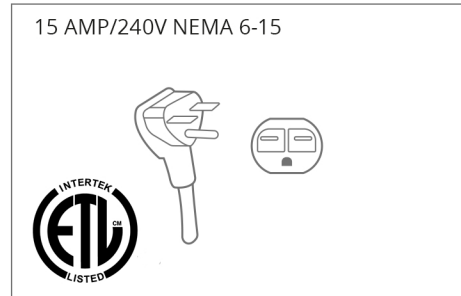
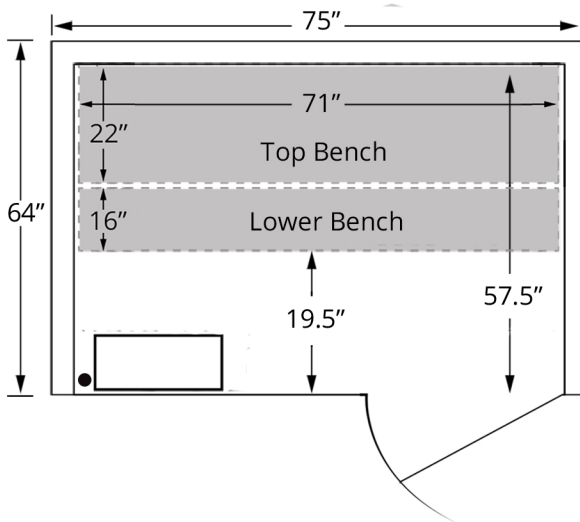
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Back



Top View



SPECIFICATIONS

CONSTRUCTION

Canadian Grade "A" Clear Western Thermal Plus™ European Aspen Tongue & Groove Construction Insulated Walls 8mm Tempered Glass

EXTERIOR

Width: 75"
Sides: 64"
Height: 84"

INTERIOR

Width: 71"
Depth: 57.5"
Height: 75"
Top Bench: 71" x 22"
Lower Bench: 71" x 16"

INFRARED HEATERS

Spectrum Plus™
UL Listed Heater
Low EMF/ELF
Power: 240V / 2800w / 15A

TRADITIONAL HEATER

Harvia KIP45B
ETL Listed Heater
Power: 240V/1PH/20A



Tempe, AZ

EMI Log

Customer: Finnmark Designs			Project Number: PR108242		
Test Item: Infrared Heaters			Log Start Date: 12/5/2019		
Model P/N: Spectrum +			Standard: Customer Email		
S/N:			Test: RF/Magnetic Field Survey (ICNIRP Occupational 2010 Test Limit)		
Temp: 22.1°C			Humidity: 44%		
Date	Start Time	Finish Time	NOTES	Result	Init
			Spectrum +		
12/5/19	1230		Ambient Position 1 (cables) Bandwidth @ 100Hz	Pass	JG
			Measured EMF: 0.5304mG @ 59.81Hz		
			Heater On Position 1 (cables) Bandwidth @ 100Hz	Pass	JG
			Measured EMF: 0.7328mG @ 60.06Hz		
			Heater On Position 1 (cables) Bandwidth @ 200Hz	Pass	JG
			Measured EMF: 0.7875mG @ 60.06Hz		
			Heater On Position 1 (cables) Bandwidth @ 3800Hz	Pass	JG
			Measured EMF: below 0.1mG		
			Heater On Position 2 Bandwidth @ 100Hz	Pass	JG
			Measured EMF: 0.6998mG @ 59.81Hz		
			Heater On Position 2 Bandwidth @ 200Hz	Pass	JG
			Measured EMF: 0.6881mG @ 60.06Hz		
			Heater On Position 2 Bandwidth @ 3800Hz	Pass	JG
			Measured EMF: below 0.1mG		
			Heater On Position 3 Bandwidth @ 100Hz	Pass	JG
			Measured EMF: ≈1mG @ ≈60Hz		
			Heater On Position 3 Bandwidth @ 200Hz	Pass	JG
			Measured EMF: 1.1708mG @ 60.06Hz		
12/5/19		1530	Heater On Position 3 Bandwidth @ 3800Hz	Pass	JG
			Measured EMF: below 0.1mG		

Test Personnel:

Customer Witness:



Tempe, AZ

EMI Log

Customer: Finnmark Designs			Project Number: PR108242		
Test Item: Infrared Heaters			Log Start Date: 12/6/2019		
Model P/N: Spectrum Carbon			Standard: Customer Email		
S/N:			Test: RF/Magnetic Field Survey (ICNIRP Occupational 2010 Test Limit)		
Temp: 20.4°C			Humidity: 45%		
Date	Start Time	Finish Time	NOTES	Result	Init
			Spectrum Carbon		
12/6/19	0630		Ambient Position 1 (cables) Bandwidth @ 100Hz Measured EMF: 0.4002mG @ 60.06Hz	Pass	JG
			Heater On Position 1 (cables) Bandwidth @ 100Hz Measured EMF: 0.4379mG @ 60.06Hz	Pass	JG
			Heater On Position 1 (cables) Bandwidth @ 200Hz Measured EMF: 0.4371mG @ 60.06Hz	Pass	JG
			Heater On Position 1 (cables) Bandwidth @ 3800Hz Measured EMF: below 0.1mG	Pass	JG
			Heater On Position 2 Bandwidth @ 100Hz Measured EMF: 0.5893mG @ 60.06Hz	Pass	JG
			Heater On Position 2 Bandwidth @ 200Hz Measured EMF: 0.4120mG @ 60.06Hz	Pass	JG
			Heater On Position 2 Bandwidth @ 3800Hz Measured EMF: below 0.1mG	Pass	JG
			Heater On Position 3 Bandwidth @ 100Hz Measured EMF: 0.4075mG @ 60.06Hz	Pass	JG
			Heater On Position 3 Bandwidth @ 200Hz Measured EMF: 0.4083mG @ 60.06Hz	Pass	JG
12/6/19		0900	Heater On Position 3 Bandwidth @ 3800Hz Measured EMF: below 0.1mG	Pass	JG

Test Personnel:

Customer Witness:

The heaters were tested in a controlled environment using a Narda EHP-50F Electric & Magnetic RF Analyzer to conduct the required measurements.

The heaters were tested in 3 different resolution bandwidths (100Hz, 200Hz, 3800Hz). The multiple bandwidths allowed for a more accurate reading below 200Hz of the 60Hz (and harmonics) signal(s). The scans were 1-100Hz, 1-200Hz, and 200-4000Hz. Please note, that the minimum operating frequency of the EHP-50F is 1Hz, therefore any “measurements” that appear below 1Hz are invalid.

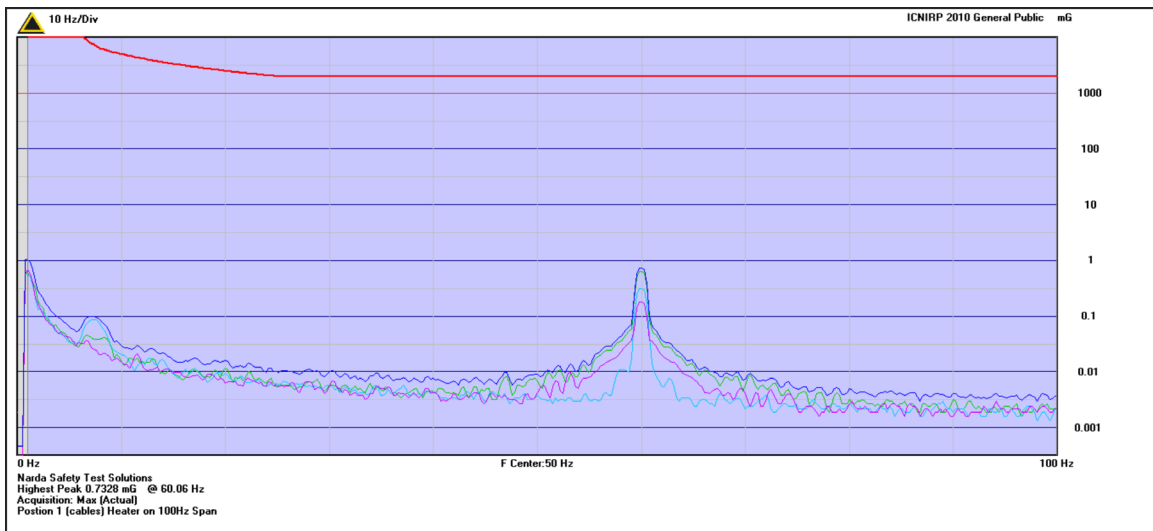
Each heater was measured at three different positions (see photos) for the frequency spans/scans listed above.

All measurements were plotted against the ICNIRP_Occupational_2010 Test Limit (see plots). The “highest” recorded measurement was Position 3 (200Hz Bandwidth) of the Spectrum + with a measured value of 1.1708mG.

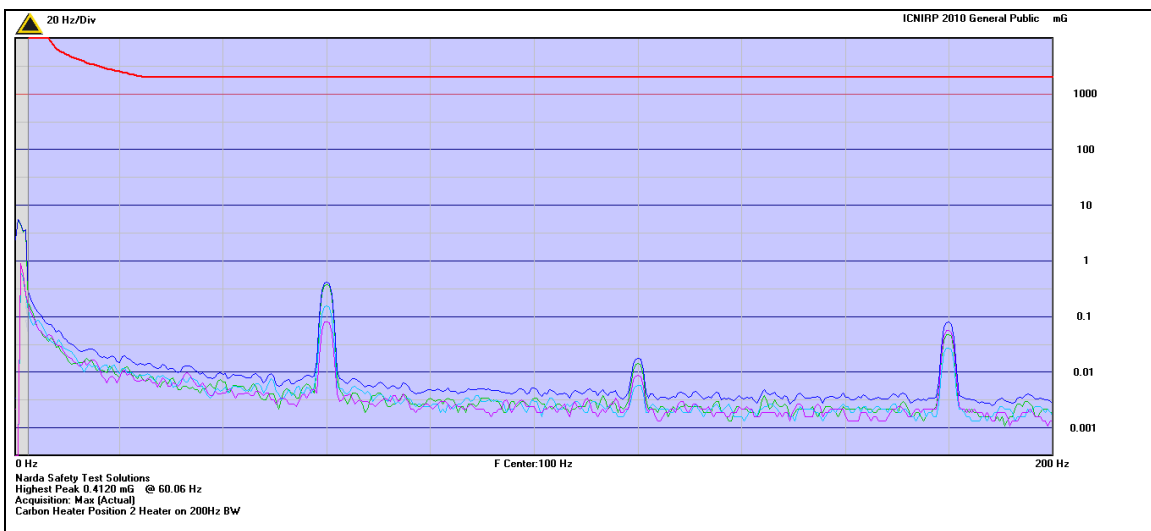
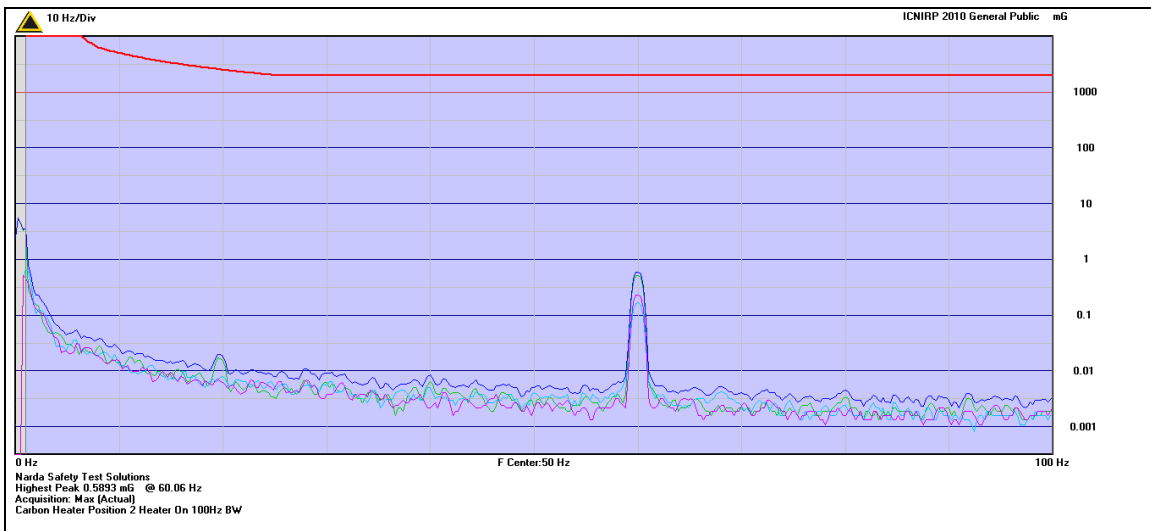
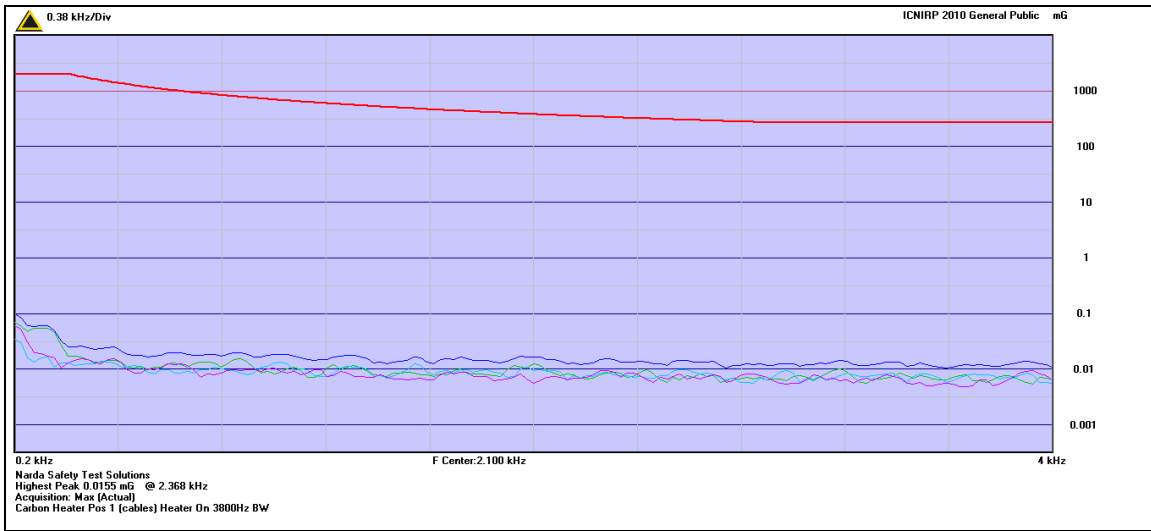
All of the measurements that were conducted/recorded were MAGNITUDES lower than the ICNIRP_Occupational_2010 Test Limit.

****Continued****

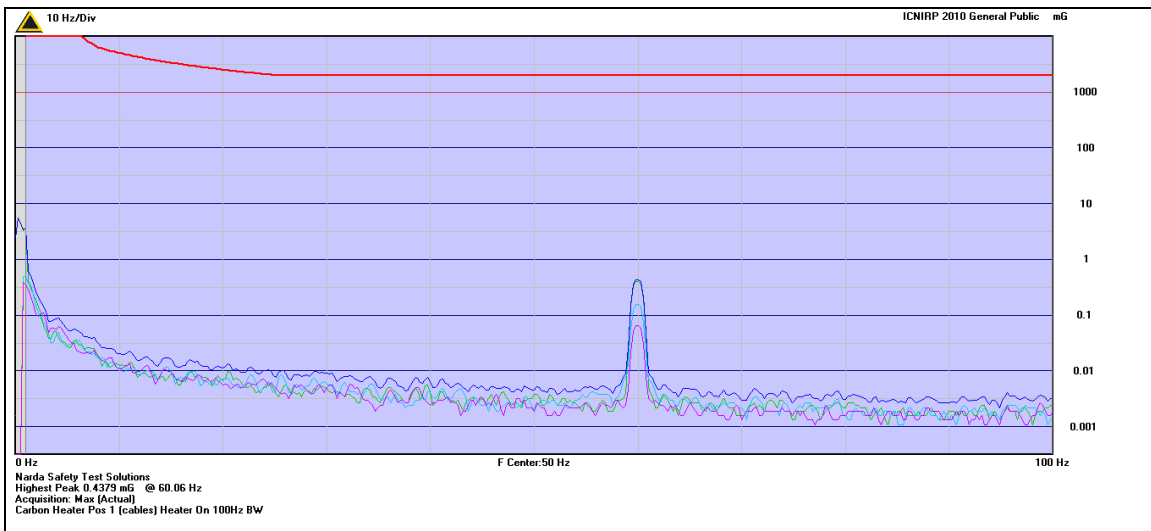
Customer: Finnmark Designs	Project Number: PR108242
Test Item: Infrared Heaters	Log Start Date: 12/5/2019
Model P/N: Spectrum +	Standard: Customer Email



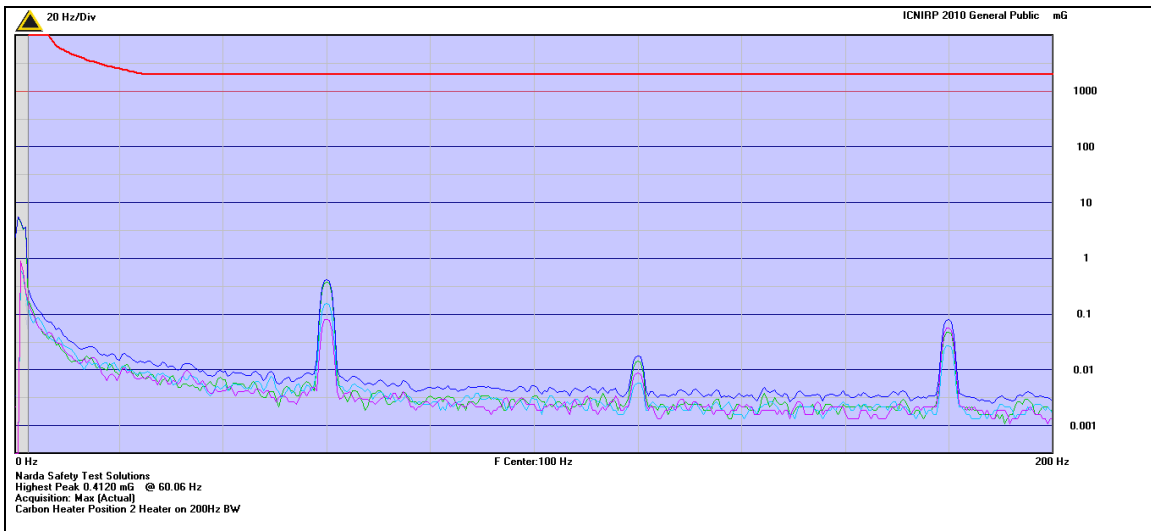
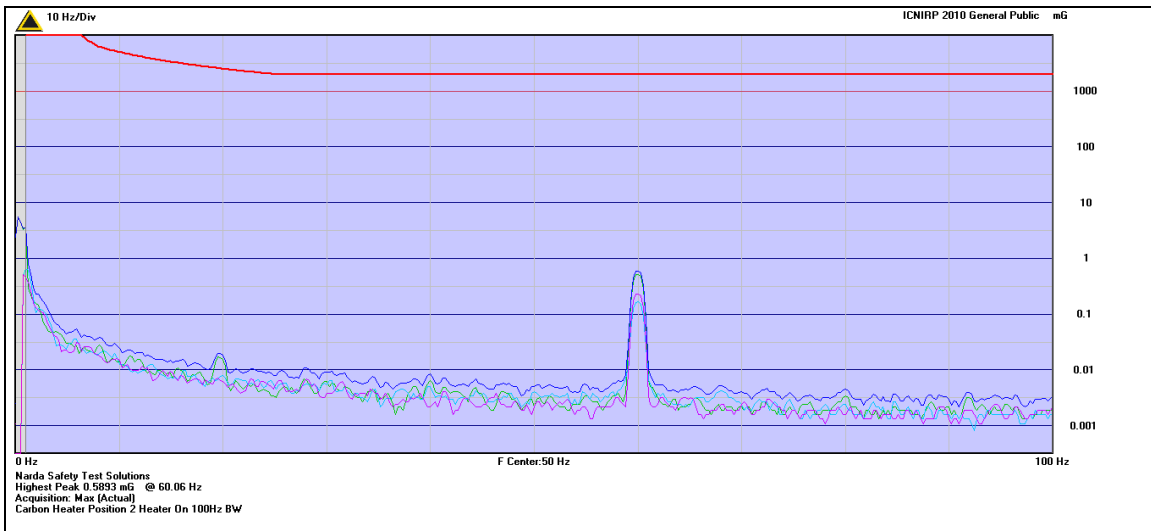
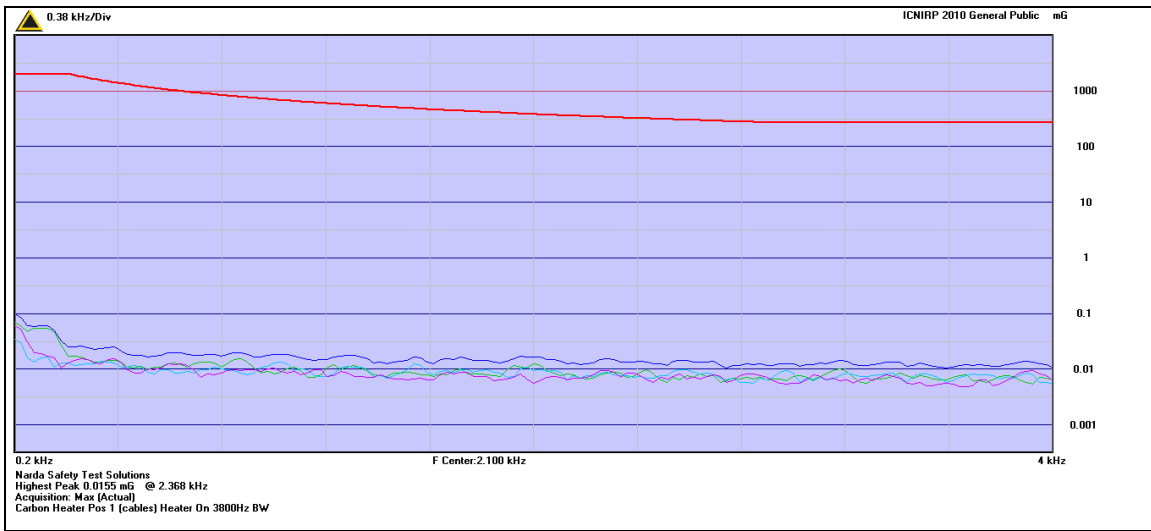
Continued



Customer: Finnmark Designs	Project Number: PR108242
Test Item: Infrared Heaters	Log Start Date: 12/5/2019
Model P/N: Spectrum Carbon	Standard: Customer Email



****Continued****





Our Warranty

Finnmark Designs warrants to the original purchaser (“you”) the following regarding your new sauna, when (a) is installed in accordance with installation instructions provided, (b) is properly and reasonably maintained, and (c) has not been subjected to damage, misuse, or abuse, and (d) is for residential use only.

We build saunas that **last longer than the competition.**

Using high quality materials coupled with state-of-the-art technology, our saunas outperform the competition.

Product Name	Indoor Residential	Outdoor Residential	Commercial	Price
Sauna Cabin (All Wood)	10 Years	5 Years	5 Years	Included
Non-Factory Installed Components	No Coverage	No Coverage	No Coverage	N/A
Controls and Power Supply	10 Years	5 Years	5 Years	Included
Spectrum Plus™ Heaters	Lifetime	Lifetime	Lifetime	Included
Spectrum Carbon Heaters	10 Years	10 Years	10 Years	Included
LED Lighting	10 Years	10 Years	10 Years	Included
Remotes	1 Year	1 Year	1 Year	Included
Cushion (Optional)	1 Year	1 Year	1 Year	Included
Outdoor Cover (Optional)	10 Years	10 Years	10 Years	Included

HARVIA

EN Owner's/Operator's Manual

Sauna heater installation, wiring, operating instructions, trouble shooting, maintenance and guarantee.

IMPORTANT! This manual must be left with owner, manager or operator of Sauna after it is used by electrician!

MODEL

KIP-30-B1
KIP-45-B1
KIP-60-B1
KIP-80-B1

KIP-30-B3
KIP-45-B3
KIP-60-B3
KIP-80-B3

MODEL

KIP-30-W1
KIP-45-W1
KIP-60-W1
KIP-80-W1

MODEL

KIP-30-W3
KIP-45-W3
KIP-60-W3
KIP-80-W3

CONTROLS

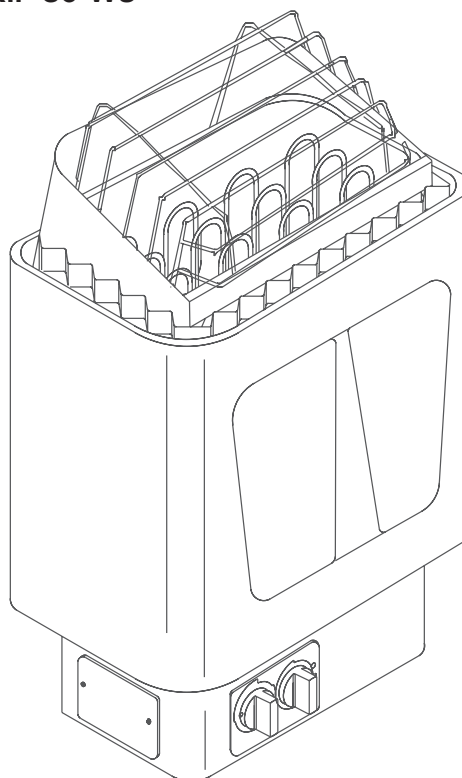
CG170-U1
CG170-U3
CX170-U1
CX170-U3

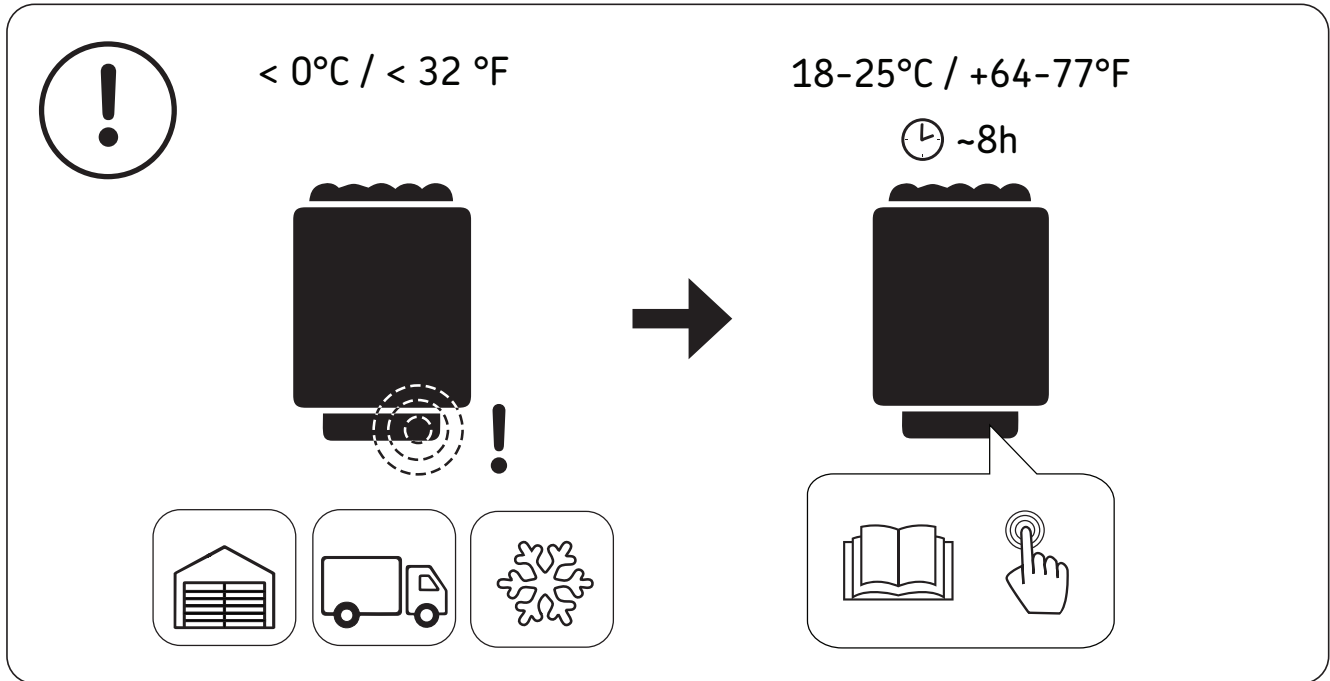


LISTED 6J21
SAUNA HEATER

Sauna Specialiste Inc.
1085 Desserte Nord Autoroute 440 Ouest
Laval, QC H7L 3W3
Toll free: 1 855-689-2422

Harvia US Inc.
3567 Jefferson St. N,
Lewisburg, WV 24901
+ 1 304-497-3991





! Overheat protector of the device can also go off at temperatures below -5°C / 23°F (storage, transport, environment). Before installation take the device to a warm environment. The overheat protector can be reset when the temperature of the device is approx 18°C / 64°F . The overheat protector must be reset before using the device. See the user manual > Resetting the Overheat Protector.

THE SAUNA ROOM SHALL BE PROVIDED WITH PROPER VENTILATION

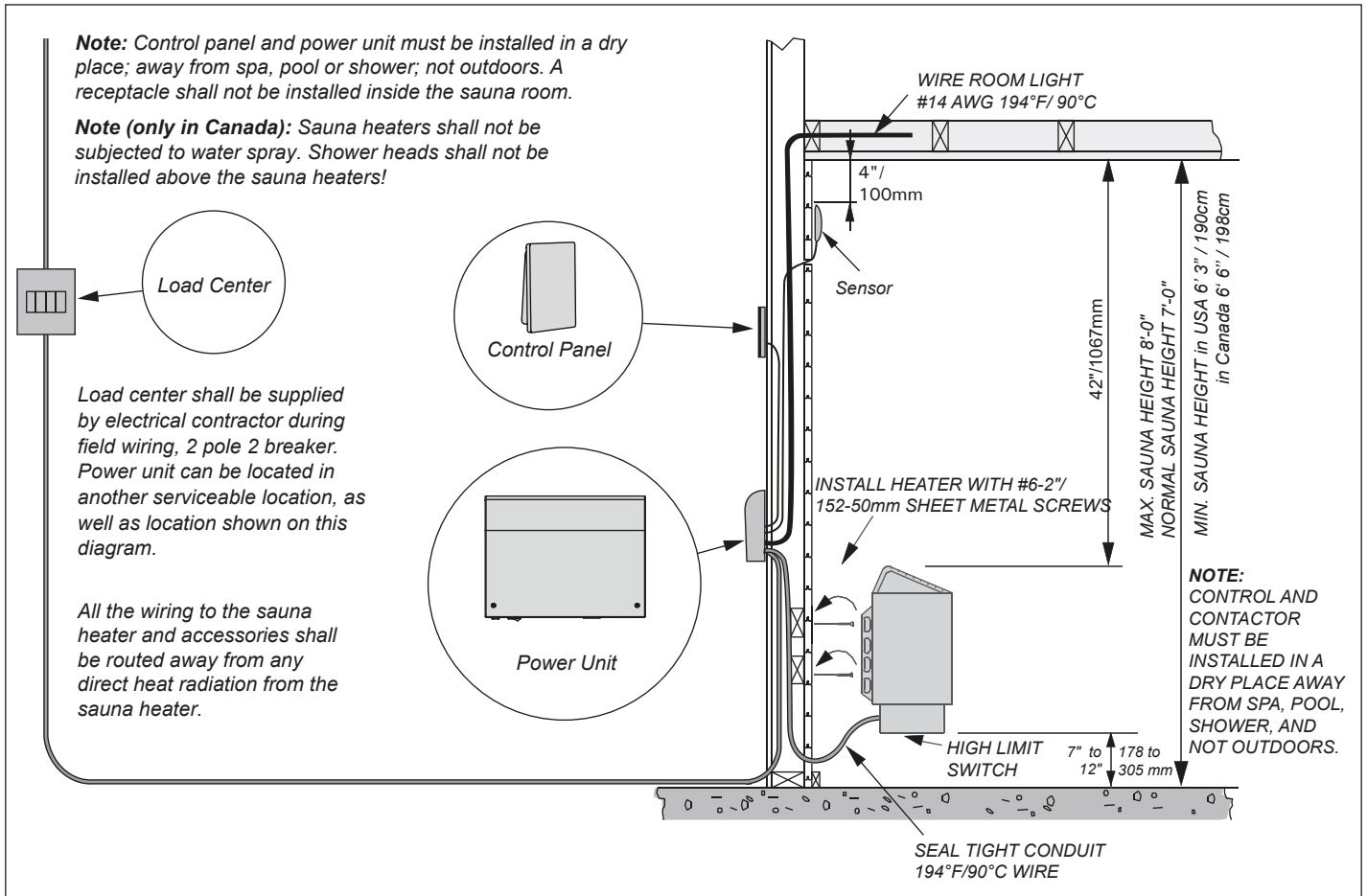


Figure 1. Digital Sauna Control CX170-U1 and CX170-U3

INSTALLATION OF WALL MODEL HEATER, CONTROL, CONTACTOR

1. Remove heater from carton and attach heater to wall with screws are supplied. If wall thickness is less than 3/4" (19 mm), use 2"x 4" (50 x 100 mm) backing behind heater. Observe proper clearances as per page 4 and table 1.

2. See applicable wiring diagram fig. 5-6 for heater model. Heater must be permanently installed (no pigtails or plug allowed) and wiring must be done by a licensed electrician, who must follow wiring diagram provided and adhere to local codes. Use proper A.W.G. rated wire size and use copper wire suitable for 194°F (90°C) within Sauna walls. Use grounding terminals provided in Sauna heater, control system, and contactor to properly ground the equipment as per NEC and local codes.

3. Inside the heater box there are two signs. Please place the metal "CAUTION" sign on the interior wall of the Sauna room directly above the heater in a visible place. Place the metal "WARNING" sign outside, on the door of the Sauna room. "MAINTENANCE INSTRUCTIONS" are at the end of this manual.

THE SAUNA ROOM SHALL BE PROVIDED WITH PROPER VENTILATION WALL-MOUNTED HEATERS-MINIMUM CLEARANCES, MIN-MAX SPACE, ADEQUATE VENTILATION

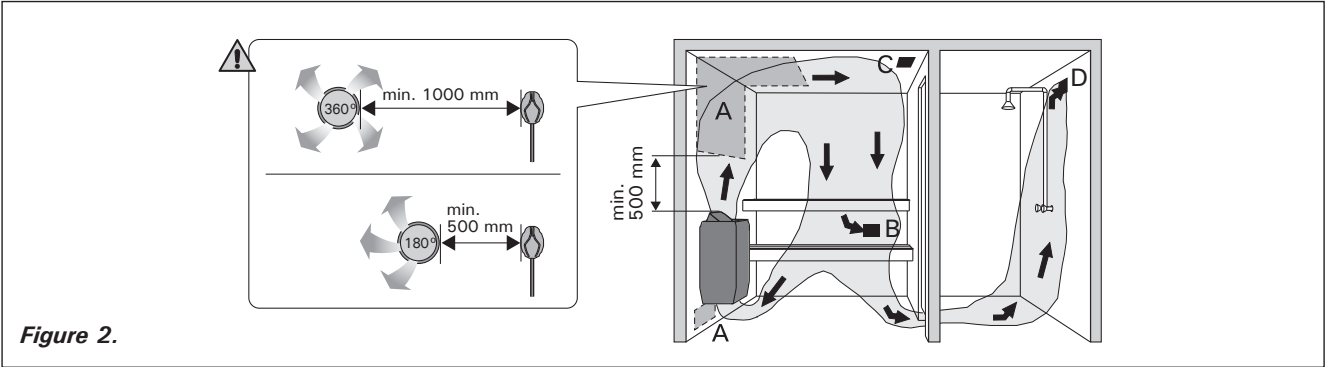


Figure 2.

SAUNA ROOM VENTILATION

The air in the sauna room should change six times per hour. Figure 2 illustrates different sauna room ventilation options.

NOTE! Do not place the supply air vent so that the air flow cools the temperature sensor

- A. Placement area for air supply vent (Ø 50 – 100 mm). If mechanical ventilation is used, air supply vent should be placed above the heater. If natural ventilation is used, air supply vent should be placed under or next to the heater. The diameter of the supply air pipe must be 50–100 mm.
- B. Exhaust air vent (Ø 100 – 200 mm). Place the exhaust air vent near the floor, as far away from the heater as possible. The diameter of the exhaust air pipe should be twice the diameter of the supply air pipe.
- C. Optional vent for drying (closed during heating and bathing). The sauna can also be dried by leaving the door open after bathing.
- D. If the exhaust air vent is in the washroom (Ø 100 – 200 mm), the gap underneath the sauna door must be at least 100 mm. Mechanical exhaust ventilation is mandatory.

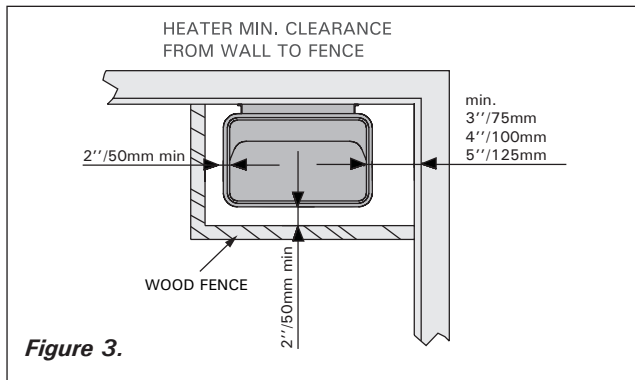


Figure 3.

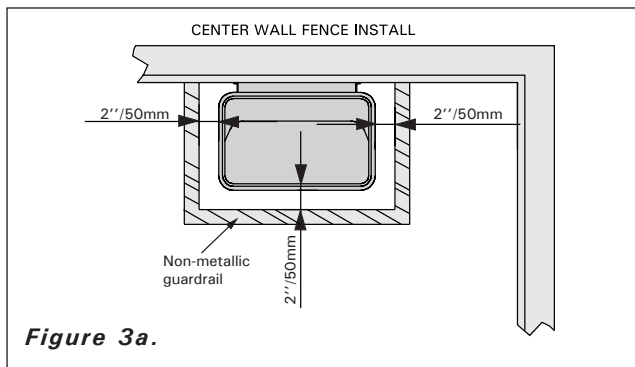


Figure 3a.

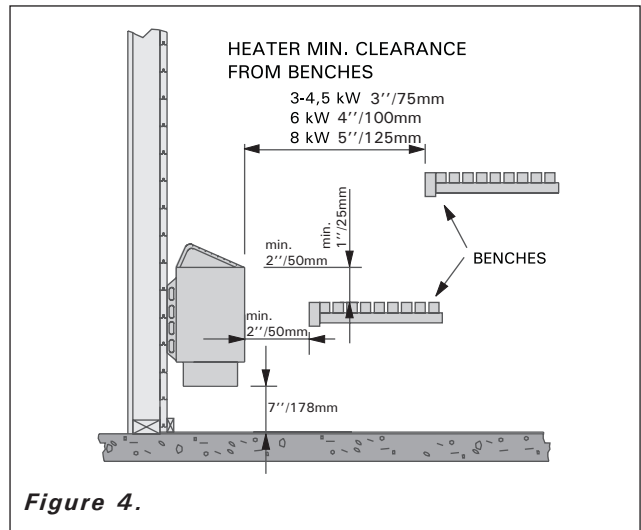


Figure 4.

MODEL	INPUT	MIN. HEIGHT	FLOOR AREA		SAUNA ROOM		MIN. SPACING FROM ADJACENT SURFACES, INCHES/MM
	kW		INCHES/MM	Min. Sq.Ft/ m ²	Max. Sq.Ft/ m ²	Min. Cu.Ft/ m ³	
KIP-30-B/W	3.0	USA: 75/1900 CANADA: 78/1980	10/1	20/2	84/2,4	130/3,7	3/75
KIP-45-B/W	4.5		16/1,5	30/2,8	100/2,8	210/6	3/75
KIP-60-B/W	6.0		28/2,6	40/3,7	170/4,8	300/8,5	4/100
KIP-80-B/W	8.0		40/3,7	65/6	250/7,1	425/12	5/125

Table 1.

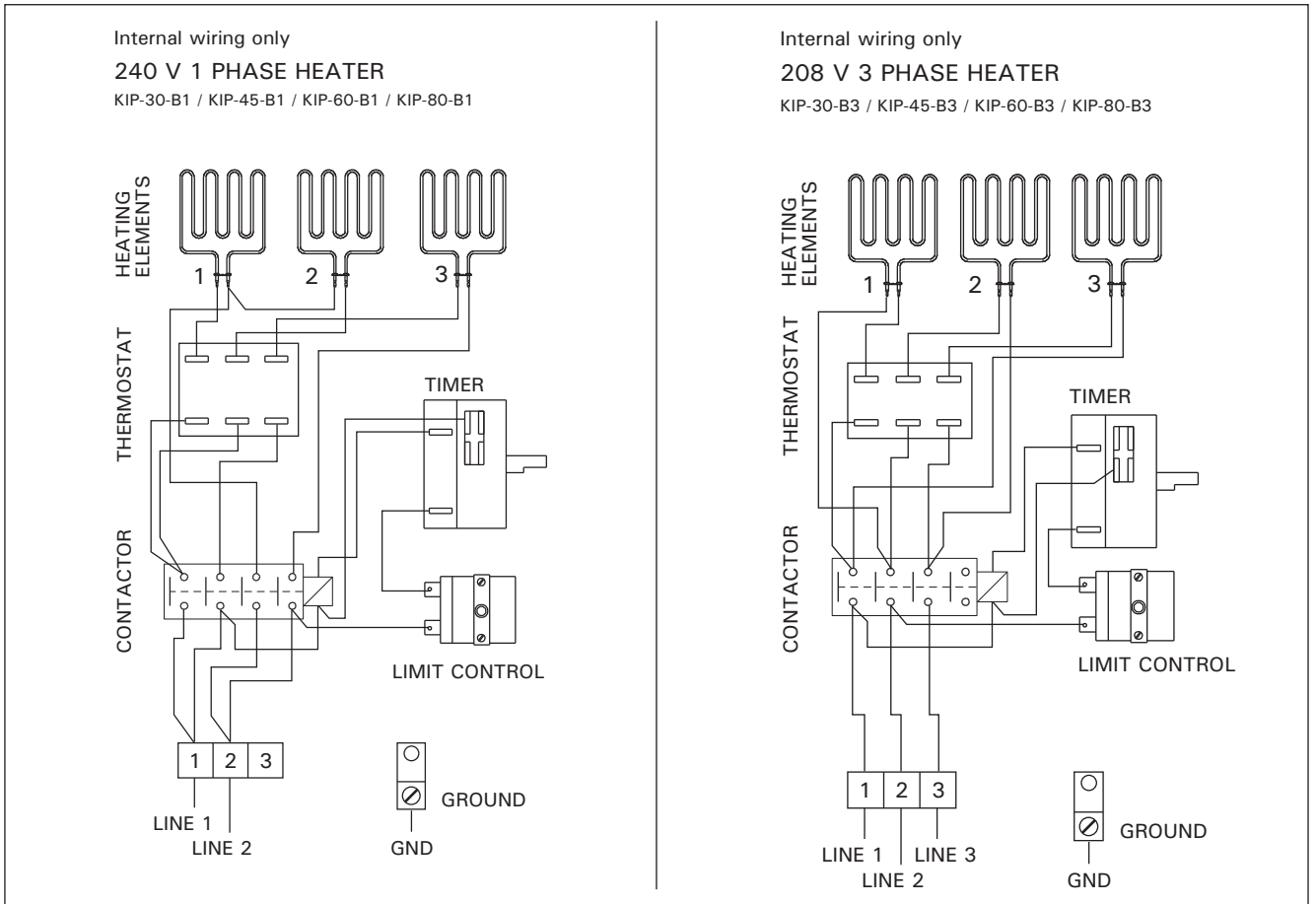


Figure 5.

SAUNA HEATER (240 V) WITH BUILT IN CONTROLS					
Model	kW	Amps	Voltage	Phase	Wire size
KIP-30-B1	3.0	12.5	240	1	#12/2
KIP-45-B1	4.5	18.8	240	1	#10/2
KIP-60-B1	6.0	25.0	240	1	#10/2
KIP-80-B1	8.0	33.3	240	1	#8/2

SAUNA HEATER (208 V) WITH BUILT IN CONTROLS					
Model	kW	Amps	Voltage	Phase	Wire size
KIP-30-B3	3.0	8.3	208	3	#14/3
KIP-45-B3	4.5	12.5	208	3	#14/3
KIP-60-B3	6.0	16.7	208	3	#12/3
KIP-80-B3	8.0	22.2	208	3	#10/3

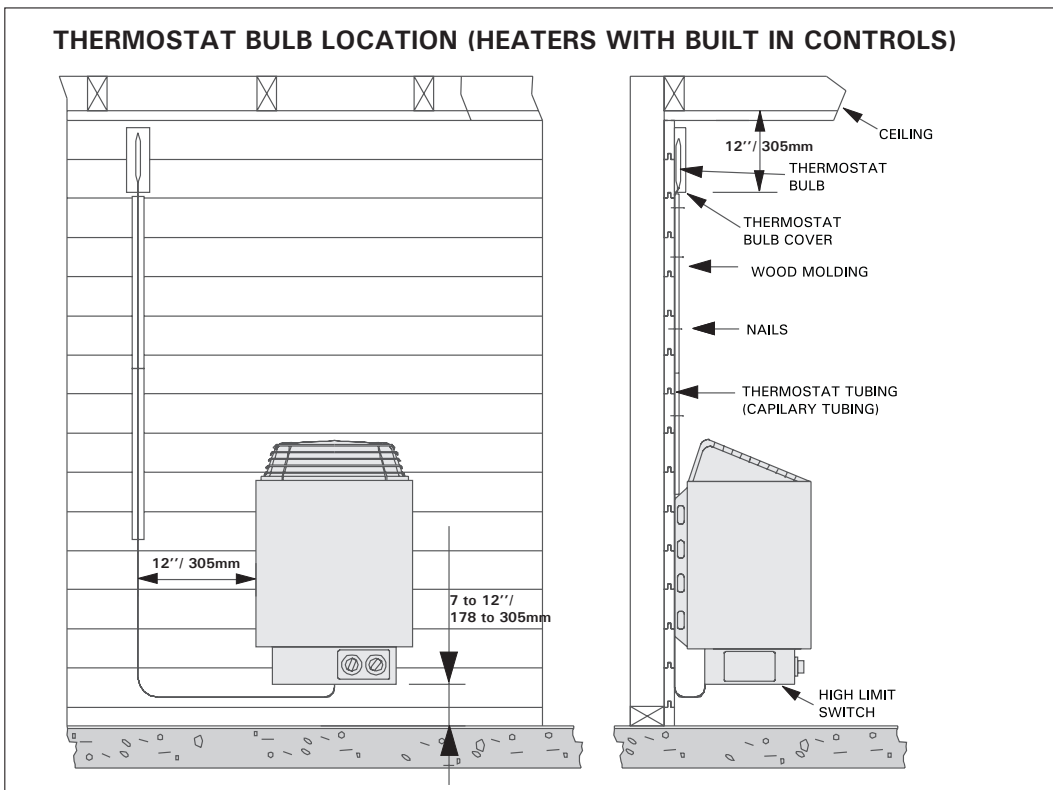


Figure 5a.

SAUNA HEATER WIRING AND HOOKUP

Important! Heaters with built in controls: Before hooking up electrical wires to junction box of heater, remove capillary tubing and bulb from junction box and bring up wall to left or right side of heater. Cover tubing with wooden molding provided, coil up excess tubing, and place under heater close to floor.

Refer to chart on page 5 for proper wire size and amperage. See page 4 for required clearances. Any wiring within internal Sauna walls and ceiling must be rated 194°F (90°C) and copper wire must be used. Run wire through seal tight flex conduit from wall to heater and connect to junction box at back of heater with 194°F (90°) connector. Connect to terminals 1 and 2 and connect ground wire to lug marked ground. (Cover plate under heater must be removed first.)

Note! If connection to heater will be made at a later time, bring flex into Sauna room 4–6" (100 – 150 mm) from floor, and leave 3' (900 mm) of flex for hookup (can be cut to right length later).

Before testing heater, fill rock cavity with igneous stones purchased from an official Harvia distributor and fasten metal rock guard at top of heater. (See general info concerning washing and placing of stones.)

Be sure to cover thermostat bulb with protective metal cover by threading bulb through holes in cover, and fasten bulb cover to wall with screws provided. Also, take care when nailing protective wood strips over capillary tubing, so that nails do not puncture tubing. If punctured, entire thermostat must be replaced.

Important! Heater must be connected to a standard 2-pole breaker, no GFI may be used. If this heater is connected to a GFI breaker, nuisance tripping may occur causing unnecessary and unintended wear on internal components. If connected to a GFI breaker, warranty on internal components will be voided.

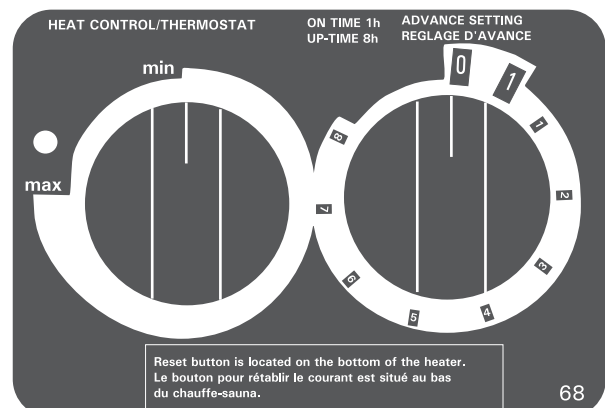
SAUNA TIMERS

Heaters have a 60 min. timer (0 to large 1 on the dial), and if you wish to use the full 60 min. cycle, turn the timer knob past the first 1 to number 2 or 3 on the dial. Then turn backward to the large 1 until a click is heard. Leave knob at the setting, and Sauna will operate for 1 hour before shutting off automatically.

Allow at least 30 minutes for room to heat up to an average Sauna temperature. Note!! If you set timer past first 1, timer will not come on until the time set has elapsed. The 60 min. timer is quiet. It does not tick.

Timers have an added feature--an 8 hour time clock (small 1 to 8 on the timer dial). If you wish to preset your Sauna heater to automatically turn on when you are away, you may preset up to 8 hours in advance of Sauna bathing.

For eg., if you set the timer knob at number 3 setting, the Sauna heater will turn on 3 hours later, and will be ready for useage in 3 1/2 hours (allowing for 1/2 hour heat up time). The heater will shut off automatically in another half hour, and if you wish to continue using Sauna, reset the 60 min. timer back up to the large 1.



Heaters have a heat control (thermostat) which must be set between minimum and maximum heating, or the timer will not cause the Sauna to heat. Put heat control setting to maximum, heat Sauna for 1/2 to 1 hour to observe adequate Sauna temperature. If room is too hot, adjust heat control knob back toward minimum setting, until desired temperature is reached.

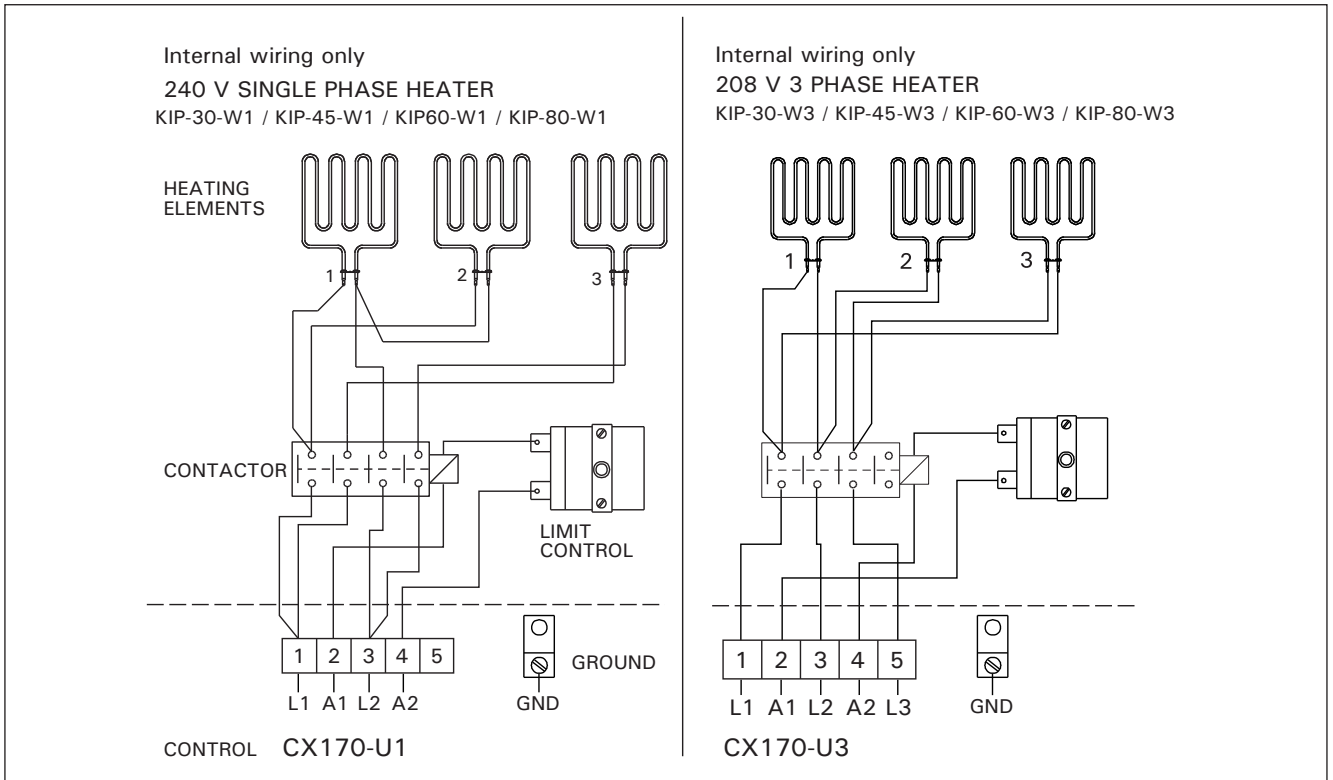


Figure 6. Wiring diagram

SAUNA HEATER (240 V) WITH CONTROL UNIT						
Model	kW	Amps	Voltage	Phase	Wire size	Control
KIP-30-W1	3.0	12.5	240	1	#12/2 + #14/2	CG170-U1/CX170-U1
KIP-45-W1	4.5	18.8	240	1	#10/2 + #14/2	CG170-U1/CX170-U1
KIP-60-W1	6.0	25.0	240	1	#10/2 + #14/2	CG170-U1/CX170-U1
KIP-80-W1	8.0	33.3	240	1	#8/2 + #14/2	CG170-U1-15/CX170-U1-15

SAUNA HEATER (208 V) WITH CONTROL UNIT CG170-U3/CX170-U3						
Model	kW	Amps	Voltage	Phase	Wire size	
KIP-30-W3	3.0	8.3	208	3	#14/3 + #14/2	
KIP-45-W3	4.5	12.5	208	3	#14/3 + #14/2	
KIP-60-W3	6.0	16.7	208	3	#12/3 + #14/2	
KIP-80-W3	8.0	22.2	208	3	#10/3 + #14/2	

SAUNA – GENERAL INFORMATION

Rock placement – do not operate heater without stones!

Sauna heater stones are significant in terms of the unit's safety. In order for the warranty to remain valid, the user is responsible for proper maintenance of the stone space in accordance with the specifications and instructions.

Use only the stones which are purchased from an official harvia distributor. Suitable sauna stone materials are peridotite, olivine diabase, olivine and vulcanite. Wash stones with water hose and place inside of heater box so that rocks are between and around heating elements. Do not force rocks between elements as this may cause damage.

Use smaller stones first, and continue to fill heater with larger stones until they are about 2" (50 mm) below rock guard.

The warranty does not cover any defects that have been caused by the use of decorative stones or by sauna stones not recommended by the manufacturer.

Stones should be placed loosely within heater so that there is good air circulation around and through them. Stones should completely cover the heating elements. Pouring water over exposed elements could cause heater damage!

TESTING OF SAUNA HEATER

1. After Sauna heater has been properly wired by a licensed electrician, according to appropriate wiring diagram and local codes, turn Sauna breaker on in the main breaker panel. (Note! Electrician must label "Sauna" breaker.)
2. Turn thermostatic (heat) control to on position (this is located either on your heater or on your remote wall control. If you have a wall control, the indicator light will come on to show that the Sauna is heating). Set timer to 10 or 15 minutes.
3. Within 5 minutes, you should be able to feel heat from heater elements when holding your hand over heater. **Do not touch hot elements or rocks!**
4. If Sauna does not heat, refer to troubleshooting information.
5. It is normal for smoke to appear during the first heating, as protective element coating needs to burn off. **Turn sauna on for 1 hour before using the first time, to eliminate smoking.**

TROUBLESHOOTING

A. If sauna does not operate after initial installation and wiring: See our trouble shooting guide and add

1. Check breaker to be sure that it is on. Also, breaker should be correct size.
2. Check circuit breaker in contactor to be sure that it has not been shorted out.
3. Be sure that thermostat and timer are both in on position.
4. Be sure that timer winds down. If timer has been shorted out, heater will not operate.

B. If sauna has been in operation, but heater ceases to operate: See our trouble shooting guide and add

1. Check breaker to make sure it is on.
2. Check timer to see if it winds down.

3. Check high limit reset button in heater (reset is under the heater (wall models) or on the back of the junction box (floor models)) to see if it has been released.
4. Call your electrician or service person for further help.

NOTE! A ground fault interrupter (GFI) should not be installed in and does not belong in a Sauna. If used, the breaker will trip, and damage could result. C. If sauna heater operates, but sauna room does not come up to sauna temperature (160–185 °F (70 – 85 °C) normal sauna temperature):

1. You must allow at least 30 minutes for Sauna heat-up time.
2. Is Sauna thermometer located 6" (150 mm) from ceiling, and is it above or close to Sauna heater? (This is proper location for Sauna temperature reading.) Thermometer readings vary with room heights and location. Eg. 180 °F (82 °C) above Sauna heater = 165 °F (74 °C) on opposite wall = 140 °F (60 °C) on upper bench level = 120 °F (49 °C) on lower bench level = 100 °F (38 °C) at floor level.
3. Check for proper wire size, amp size, and proper wiring (according to diagrams and information) also necessary copper wiring.
4. Check for placement of stones to make sure they are loosely spaced around elements, to insure good air flow. Stones packed too tightly will restrict air flow and reduce heating capacity.
5. Check for heat loss (around or under door, around ceiling light or fan – we do not recommend ceiling light and a fan does not belong in the Sauna.
6. Is room properly insulated?
7. Is ceiling higher than 7' (2100 mm)?
8. After checking all the above, remove rocks and check heater elements for holes or burned areas. (Only if heater has been in use for some time.)

CAUTION! ELECTRICIAN OR SERVICE PERSON!

1. **BEFORE SERVICING HEATER, CONTROL, CONTACTOR OR RESETTING HIGH LIMIT, TURN POWER OFF AT BREAKER!**
2. Open junction box to make sure wires are tightly secured with no loose connections. Heater wire and all connecting wires should be copper.
3. Check for burned spots or short in wiring of timer or thermostat.

Warranty on parts is void if installer/electrician fails to follow necessary wiring information provided or fails to follow code for proper wire size, amperage, etc.


HIGH LIMIT CONTROL



Before resetting high limit control, turn power off at breaker!

Each heater is equipped with a high limit control which is a safety device. If an abnormal heating condition should occur, the heater will automatically shut off, and it will not come on again until it cools.

To reset the high limit, locate the reset button (bottom front on wall models, behind junction box at back bottom of heater on floor models) and push upward until contactor kicks in. Be sure that a GFI has not been installed.

 **Overheat protector of the device can also go off at temperatures below -5 °C / 23 °F (storage, transport, environment). Before installation take the device to the warm environment. The overheat protector can be reset when the temperature of the device is approx 18 °C / 64 °F. The overheat protector must be reset before using the device.**

Receptacles OR PLUGS are not allowed in a Sauna room. If a speaker is installed in a Sauna room, it should not be installed higher than 3' (900 mm) from floor, away from the Sauna heater (consult manufacturer for ratings).

ROOM LIGHT should be a vapor proof, wall-mounted type, with rough-in box mounted flush with inside paneling. It should mount 6'6" from floor, not directly over Sauna heater, and not over upper benches; light bulb should not exceed 75 watts. **NOTE! Heat may cause accelerated wear on lighting, for longest lasting results, place lights low in room away from heater. Under benches is an ideal location.**

HEATER FENCE is necessary for safety and should be constructed of 1" x 2" (25 x 50 mm) or 2" x 2" (25 x 50 mm) softwood to match Sauna interior. See figures 2-4 for clearances from Sauna heater. Fence should attach to wall and should not be placed higher than top of heater below rock line.

ROOM CONSTRUCTION – GENERAL INFORMATION

A. FRAMING

- 2" x 4" (50 x 100 mm) any suitable wood material, 16" (406 mm) o.c.

B. CEILING HEIGHT

- no higher than 7'0" (2100 mm).

C. INSULATION

- Fiberglass or rock wool insulation with a minimum R11 insulating factor in all walls and ceiling. Paper-backed aluminum vapor barrier installed over insulation on all walls and ceiling with aluminum side facing into the sauna room.

D. DRYWALL

- See local codes. Is not required in most residences. See local codes commercial. If drywall is used, apply 1" x 2" (25 x 50 mm) nailers so that wall and ceiling boards can be attached to solid wood.

E. PANELING

- Use kiln-dried clear tongue & groove softwood, such as Spruce, Pine, Aspen, Alder, Cedar, or other suitable softwood material (with moisture content not exceeding 11%).

F. BENCHES

- Use matching wood or other suitable wood as described in section E. Minimize knots on seating area as knots can become very hot and may be uncomfortable for bathers. Fasten from bottom to prevent burning.

G. HEATER GUARDRAIL

- Use matching softwood.

H. DOOR

- Must open out and should not have a lock.

I. FLOORING

- concrete, ceramic tile, or heavyduty Vinyl.

J. VENTILATION

- should be provided by intake vent close to heater, 2" (50 mm) from floor, and out vent on opposite wall (if possible) 10" (250 mm) to 12" (300 mm) from floor. Vents should be adjustable and should allow air to change 5 times per hour. Sauna shall be provided with intended ventilations as required per the local code authorities.

K. LIGHT

- Wall-mounted, vapor-proof type lighting can be used at minimum 6" (150 mm) from ceiling, can be placed lower in room. Heat may accelerate wear on lighting, for longest lasting installation, place lights lower in the sauna away from heater (under benches is ideal).

L. ACCESSORIES

- bucket, ladle and thermometer are essential. Thermometer should be placed over the Sauna heater, 6" (150 mm) from ceiling, for correct temperature reading. Thermometers may require calibration before use for accurate readings. Other accessories such as hygrometer, sand timer, brushes, etc. are available.

M. MAINTENANCE INSTRUCTIONS

- are included at the end of this manual.

N. WARNING SIGNS

- are furnished with Sauna heater. The metal "CAUTION" sign should be fastened to wall, close to heater, in a visible place. The metal "WARNING" sign should be fastened outside, to the Sauna room door.

WARNINGS!

Do not smoke, use alcohol, or exercise in the sauna!

Do not exceed 30 min. in the sauna at one time, as excessive exposure can be harmful to health. The sauna should not be used as an endurance test!

Persons with poor health should consult their physicians before using the sauna!

Avoid fire, do not place any combustible material over the sauna heater (towels, bathing suits, wooden bucket or dipper)!

Use only clean tap water on the stones – do not use pool, spa, or well water, as chlorine gas can be produced and the heating elements can be damaged!

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98,6°F (37°C). The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting.

The effects of hyperthermia include:

- A) Failure to perceive heat**
- B) Failure to recognize the need to exit the room**
- C) Unawareness of impending hazard**
- D) Fatal damage in pregnant women**
- E) Physical inability to exit the room**
- F) Unconsciousness**

Warning – the use of alcohol, drugs or medication is capable of greatly increasing the risk of fatal hyperthermia!

MAINTENANCE INSTRUCTIONS

1. Use only clean water on Sauna stones. **Do not** use spa, pool, or well water as it will destroy your heater.
2. Clean water should always be used in Sauna buckets and water should be dumped out after every use. Scour buckets and dippers occasionally when film collects from usage. Use plastic bucket liner in bucket to prevent water leakage.
3. Scrub benches with a soft brush, using soap and water or a mild disinfectant, when needed – about once a week in commercial Saunas, or depending upon Sauna usage. For sanitation, each bather should sit or lie on a towel (this will prolong bench life).
4. Remove possible removable flooring and wash waterproof floor with disinfectant (e.g. Pine Sol) about once a week or as often as needed. Hose off removable flooring to clean.
5. To maintain beautiful appearance of Sauna heater, remove water stains by wiping with a damp cloth occasionally.
6. Sauna Heaters require no special maintenance when properly installed by a qualified electrical contractor. After 5 years of usage, the rocks may need replacing if they have crumbled or powdered.
7. We strongly recommend a floor that can be easily cleaned (concrete, ceramic tile, or a poured type of flooring). When this is provided, the Sauna can be easily cleaned and kept in a sanitary condition with little effort. A carpet is NOT recommended for a Sauna! A carpet becomes a perfect breeding ground for bacteria in the moist conditions of a Sauna; and a carpet promotes the spread of foot diseases such as athlete's foot. For the same reasons, wooden duckboard should not be used for flooring.

8. In new construction, a floor drain should also be provided, especially in commercial Saunas for sanitary cleaning and maintenance.
9. Seal wood around glass in door—inside and outside—with Harvia sauna sealer to prevent warpage.
10. When Sauna wood becomes stained from perspiration, the wood may be lightly sanded with fine sandpaper to restore beautiful appearance. We do not recommend stains or sealers as toxic vapors may appear when heated. However, 2 coats of Harvia sauna sealer may be used on the wood benches in a commercial Sauna, so that the wood may be more easily cleaned and kept sanitary – the wood will not absorb perspiration.
11. The Sauna room will heat faster if the higher vent is kept in a closed position when heating. The lower vent may always be kept in an open position.
12. Required warning signs should be posted according to the instructions.

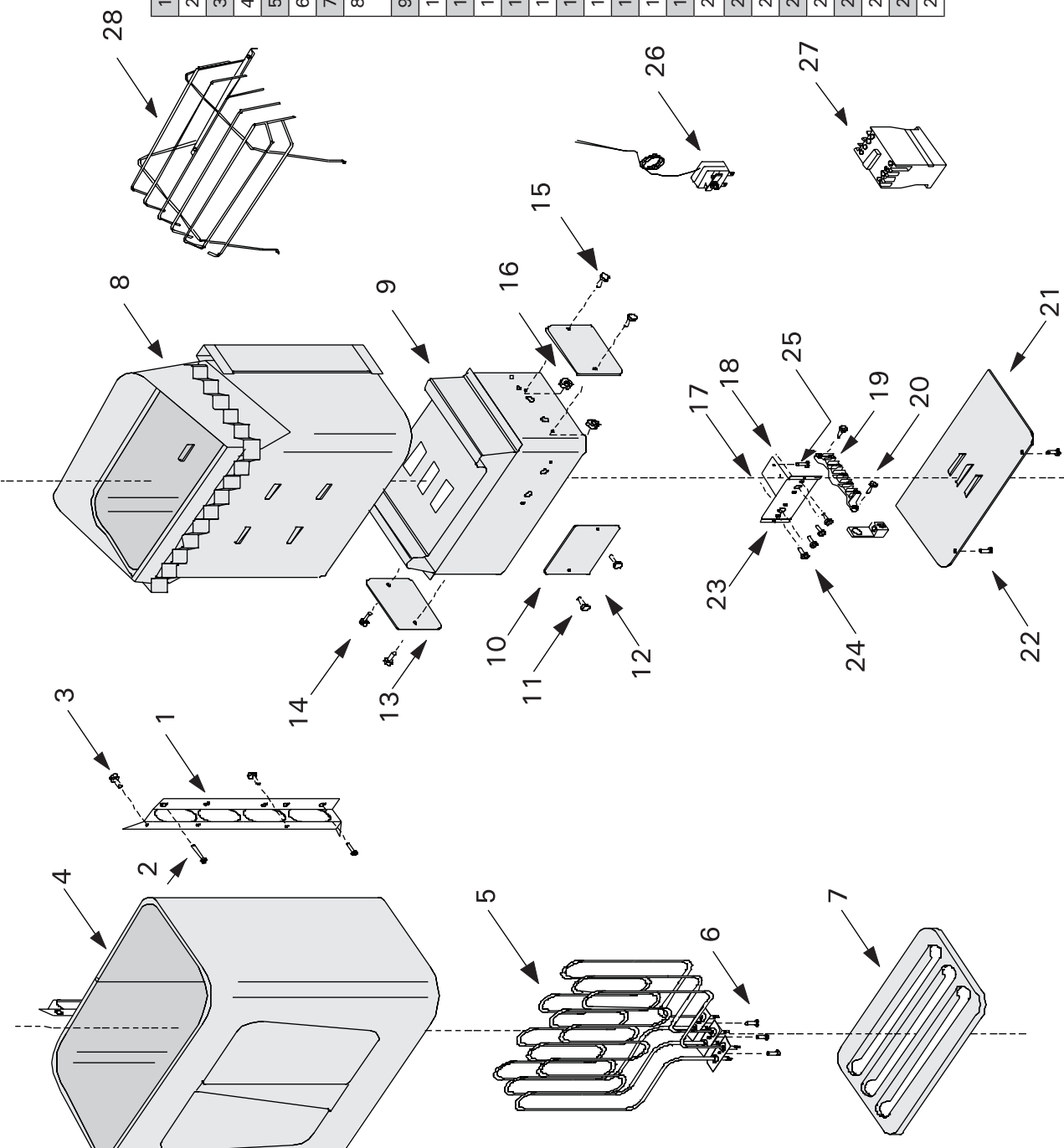
Owner of the sauna heater must make sure that sauna heater is turned off correctly every time after bathing.

Owner of the sauna heater must obey these maintenance instructions!

KIP-60-B1/KIP-60-B3

Sauna heaters type -W1, W3 without parts nr 12, 17 and 18

1.	Wall bracket
2.	Tapping screw
3.	Tapping screw
4.	Casing
5.	Heating element
6.	Slothead screw
7.	Bottom grille
8.	Stone compartment, assembled (frame)
9.	Electrical casing, assembled
10.	Plate
11.	Screw
12.	Tapping screw
13.	Rating plate
14.	Slothead screw
15.	Slothead screw
16.	Hexagon nut
17.	Thermostat
18.	Timer
19.	Terminal strip (USA)
20.	Strip fixing screw (USA)
21.	Base plate
22.	Screw
23.	Bracket
24.	Slothead screw
25.	Slothead screw
26.	Overheating limiter/switch
27.	Contact (USA)
28.	Protective grille



JH30B2401 - JH80W2083 H12/94
 JF30B2401 - JFIN802083 H12/94

GUARANTEE

This HARVIA SAUNA heater is guaranteed for one year from date of purchase, and includes all heater parts such as thermostat, controls, contactors, etc. Heating elements are consummable goods and are therefore only guaranteed upon first use.

This guarantee covers faults in manufacture and material only, and includes the exchange of new parts supplied by the manufacturer or importer, after the faulty part has been returned to same. The replacement of parts under warranty does not extend the warranty period beyond the original one year.

The guarantee does not cover defects caused by normal wear and tear, defects caused by improper installation, poor maintenance, or failure to follow the manufacturer’s instructions for installation, use and care, or alterations made to the Sauna product.

This guarantee is void if the heater is used improperly, pool, spa, or well water should not be poured over the Sauna stones, as chemicals are harmful to the heater; the Sauna room must

be heated for at least 30 minutes before water is poured over the stones; only one or two dippers full of water should be poured over the hot stones at one time. This guarantee will be void if a shower has been installed in the Sauna room.

This guarantee does not cover delivery costs of the faulty part or costs of the person carrying out the repair in the field. If the Sauna heater is returned to the manufacturer or the importer within five years after date of purchase, the importer will provide free labor for repair, but will charge for parts if date of purchase is past one year.

This guarantee will be void if installation and wiring is not carried out by a certified electrician or authorized and qualified service representative, who must sign below.

This guarantee will be void if information below is not filled out and returned to point of purchase via regular post or email within 15 days of purchase, and it applies only to original installation of product and to original purchaser.

HARVIA SAUNA HEATER _____

MODEL NUMBER _____

SERIAL NUMBER _____

DATE OF PURCHASE _____

ORIGINAL OWNER _____

ADDRESS _____

PURCHASED FROM _____

ELECTRICAL CONTRACTOR _____

COMPANY NAME AND ADDRESS _____

MUST SIGN HERE _____

ELECTRICIAN’S LICENSE NUMBER OR TAX NUMBER _____

DATE OF ELECTRICAL _____

WIRING & HOOKUP _____

HARVIA

FR Manuel de l'utilisateur/opérateur

Instructions d'installation, de câblage et d'utilisation, dépannage, entretien et garantie du poêle de sauna.

IMPORTANT ! Ce manuel doit être remis au propriétaire, au gérant ou à l'opérateur du sauna après avoir été utilisé par l'électricien !

MODÈLE

KIP-30-B1
KIP-45-B1
KIP-60-B1
KIP-80-B1

KIP-30-B3
KIP-45-B3
KIP-60-B3
KIP-80-B3

MODÈLE

KIP-30-W1
KIP-45-W1
KIP-60-W1
KIP-80-W1

MODÈLE

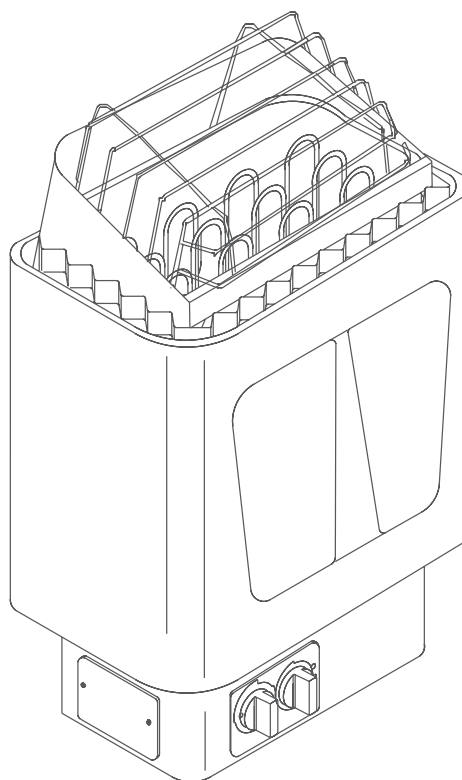
KIP-30-W3
KIP-45-W3
KIP-60-W3
KIP-80-W3

COMMANDES

CG170-U1
CG170-U3
CX170-U1
CX170-U3

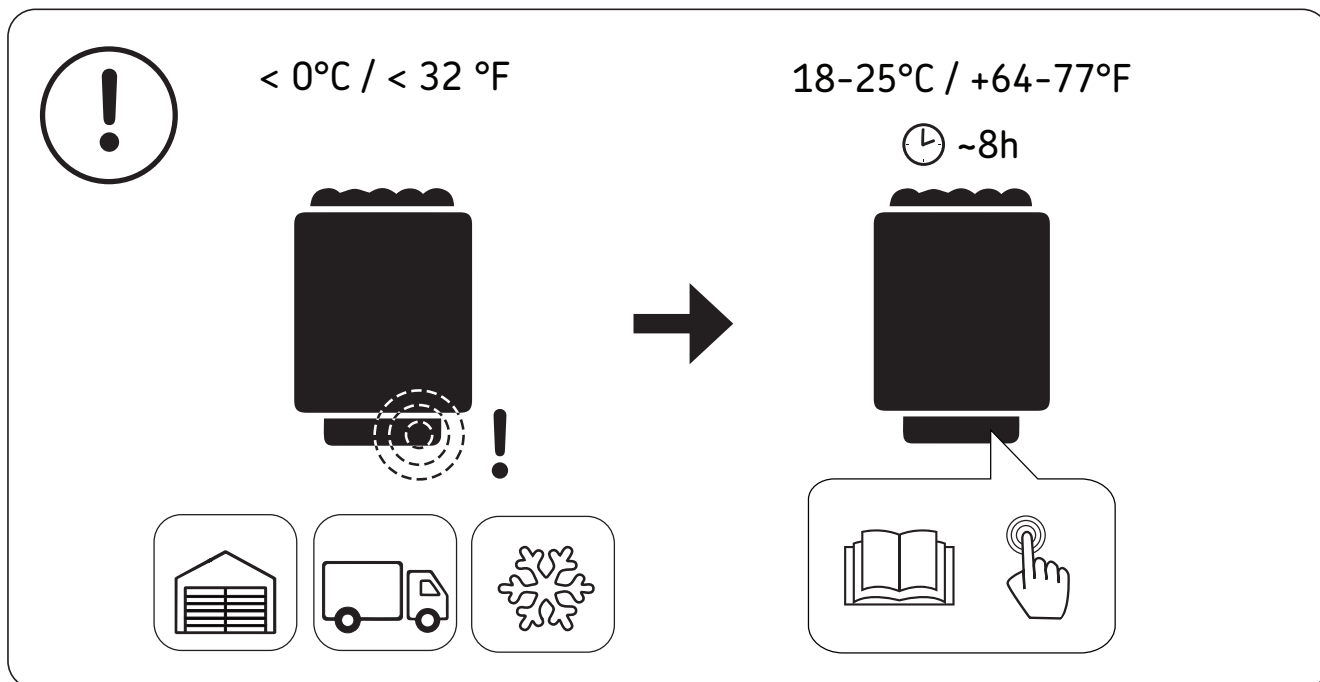


LISTED 6J21
SAUNA HEATER



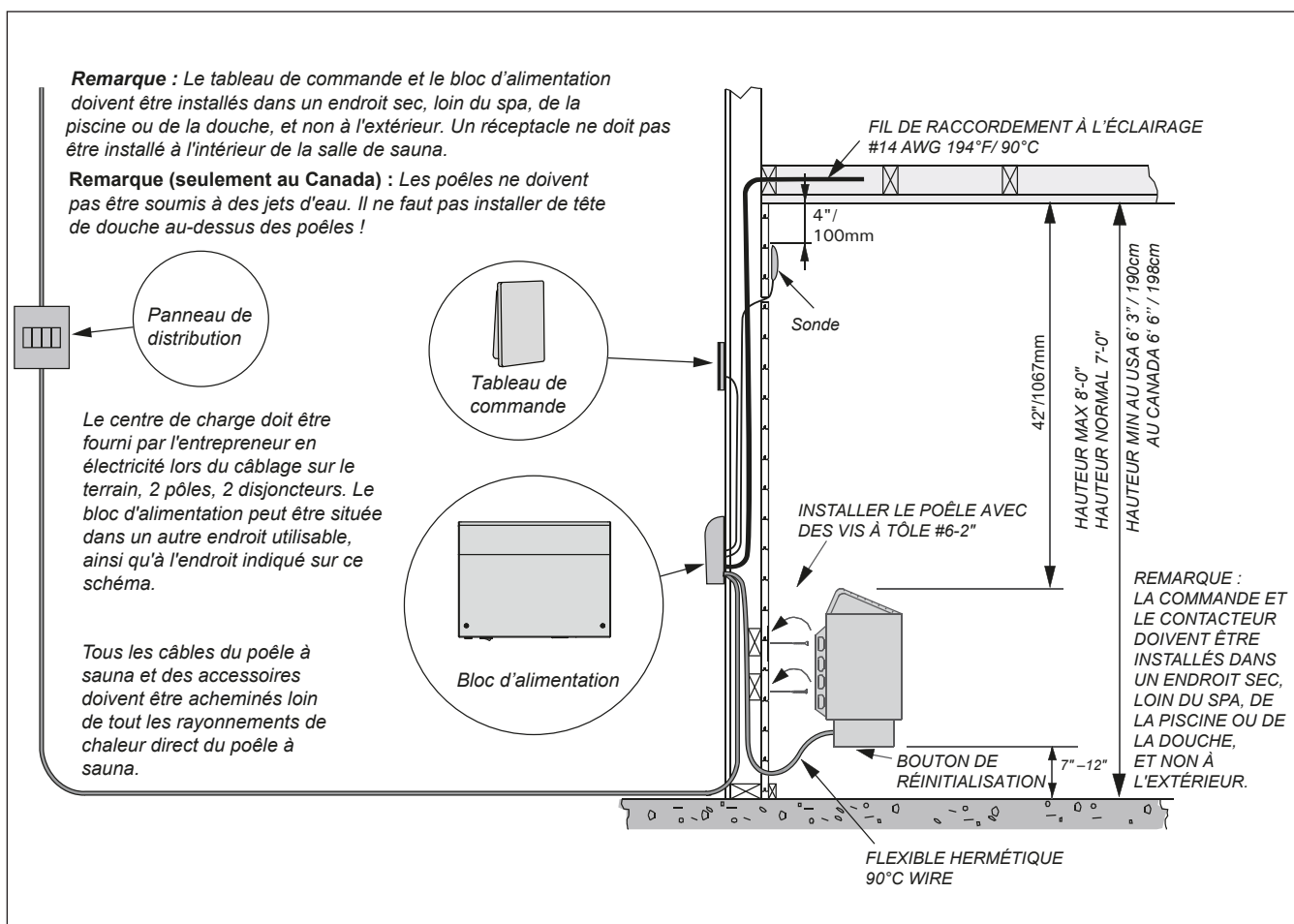
Sauna Specialiste Inc.
1085 Desserte Nord Autoroute 440 Ouest
Laval, QC H7L 3W3
Toll free: 1 855-689-2422

Harvia US Inc.
3567 Jefferson St. N,
Lewisburg, WV 24901
+ 1 304-497-3991



! La protection de surchauffe de l'appareil peut également se déclencher à des températures inférieures à -5°C / 23°F (stockage, transport, environnement). Avant l'installation, gardez l'appareil dans un environnement chaud. La protection de surchauffe peut être réinitialisée lorsque la température de l'appareil est d'environ 18°C / 64°F . La protection de surchauffe doit être réinitialisée avant d'utiliser l'appareil. Voir le manuel d'utilisation > Réinitialisation du protecteur de surchauffe.

LA CABINE DU SAUNA DOIT ÊTRE SUFFISAMMENT AÉRÉE



INSTALLATION DU POËLE MURAL, COMMANDE, CONTACTEUR

1. Sortez le poêle du carton et fixez-le à au mur avec les vis fournies. Si l'épaisseur du mur est inférieure à 3/4" (19 mm), utilisez un support de 2" x 4" (50 x 100 mm) derrière le poêle. Respectez les dégagements appropriés selon la page 16 et le tableau 1.

2. Voir le schéma de câblage correspondant au modèle de poêle, fig. 5-6. Le poêle doit être installé de façon permanente (sans spirale de raccord ni prise de courant mâle) et le câblage doit être effectué par un électricien agréé qui doit suivre le schéma de câblage fourni et respecter les codes locaux. Utilisez un fil de calibre A.W.G. approprié et un fil de cuivre adapté à une température de 90°C (194°F) dans les murs du sauna. Utilisez les bornes de terre prévues sur le poêle, le système de commande et le contacteur pour mettre l'équipement à la terre conformément au code national de l'électricité et aux codes locaux.

3. Deux panneaux se trouvent à l'intérieur du boîtier de l'appareil de chauffage. Placez le panneau métallique «ATTENTION» sur le mur intérieur de la cabine de sauna, directement au-dessus de l'appareil de chauffage, dans un endroit visible. Placez le panneau métallique «AVERTISSEMENT» à l'extérieur, sur la porte de la cabine de sauna. Les «INSTRUCTIONS D'ENTRETIEN» se trouvent à la fin de ce manuel.

LA SALLE DE SAUNA DOIT ÊTRE SUFFISAMMENT AÉRÉE. POÊLES MURAUX : DÉGAGEMENTS MINIMAUX, ESPACE MIN.-MAX., AÉRATION ADÉQUATE

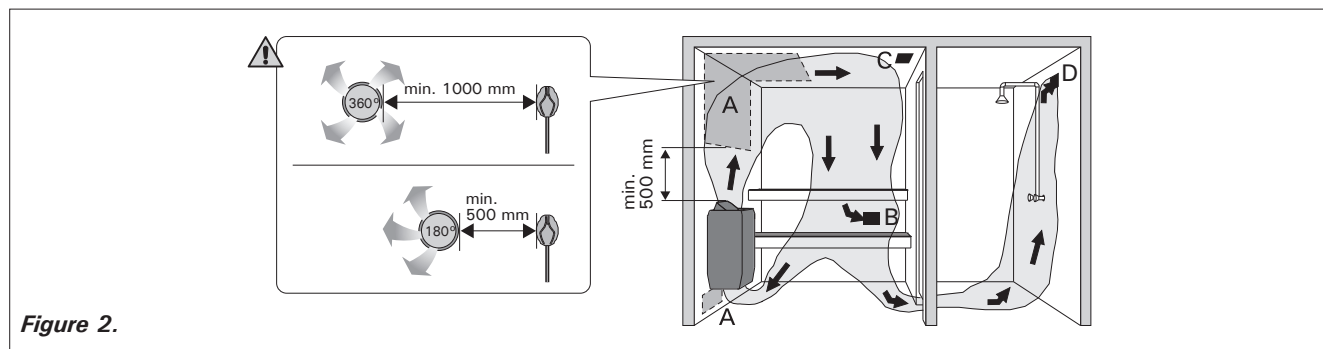


Figure 2.

VENTILATION DE LA CABINE DE SAUNA

L'air de la cabine de sauna doit se renouveler six fois par heure. La figure 4 présente différentes options de ventilation de la cabine de sauna.

Remarque ! Ne pas placer la bouche d'air de manière à ce que le flux d'air refroidisse le capteur de température !

- A. Zone d'installation de l'entrée d'air. En cas d'utilisation d'une ventilation mécanique, l'entrée d'air doit être placée au-dessus du poêle. En cas d'utilisation d'une ventilation naturelle, l'entrée d'air doit être placée en dessous ou à côté du poêle. Le diamètre du conduit d'arrivée d'air doit se situer entre 50 et 100 mm.
- B. Sortie d'air. Placer la sortie d'air près du sol, aussi loin que possible du poêle. Le diamètre du conduit de sortie d'air doit correspondre au double de celui du conduit d'arrivée d'air.
- C. Sortie d'air facultative pour le séchage (fermée pendant le chauffage et les séances de sauna). Le sauna peut également être séché en laissant la porte ouverte après la séance.
- D. Si la sortie d'air se trouve dans la salle adjacente, l'espace laissé sous la porte de la cabine doit être au moins égal à 100 mm. La ventilation mécanique est obligatoire.

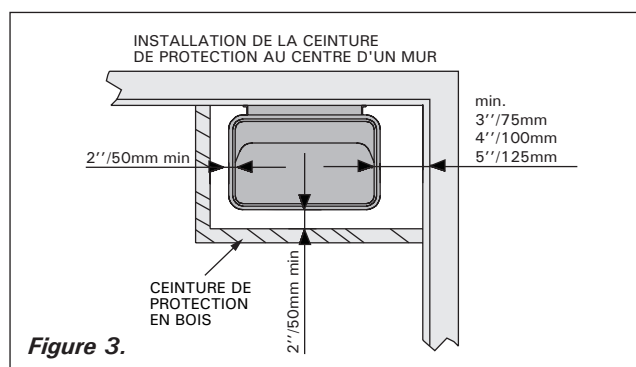


Figure 3.

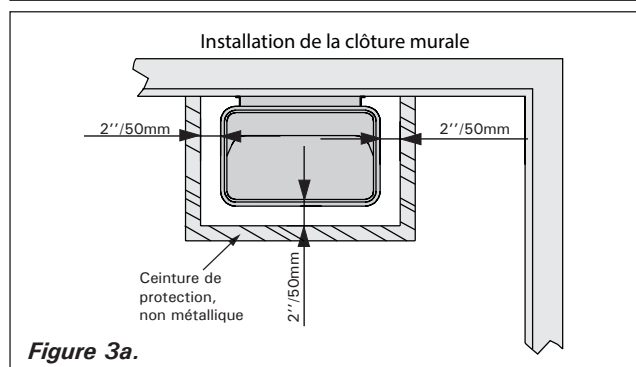


Figure 3a.

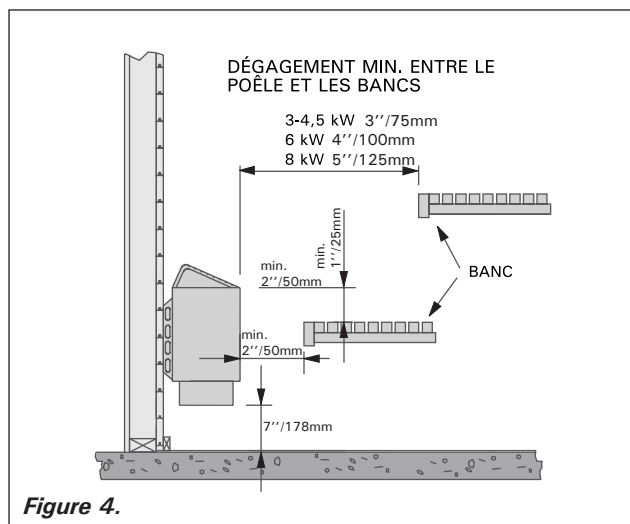


Figure 4.

MODÈLE	CONSUMMATION EN kW	HAUTEUR MIN. POUCES/MM	SURFACE AU SOL		SAUNA		DISTANCE MIN. DE LA SURFACE ADJACENTE EN POUCES/MM
			Min. Pieds carres/m ²	Max. Pieds carres/m ²	Min. Pieds cubes/m ³	Max. Pieds cubes/m ³	
KIP-30-B/W	3.0	USA: 75/1900 CANADA: 78/1980	10/1	20/2	84/2,4	130/3,7	3/75
KIP-45-B/W	4.5		16/1,5	30/2,8	100/2,8	210/6	3/75
KIP-60-B/W	6.0		28/2,6	40/3,7	170/4,8	300/8,5	4/100
KIP-80-B/W	8.0		40/3,7	65/6	250/7,1	425/12	5/125

Tableau 1.

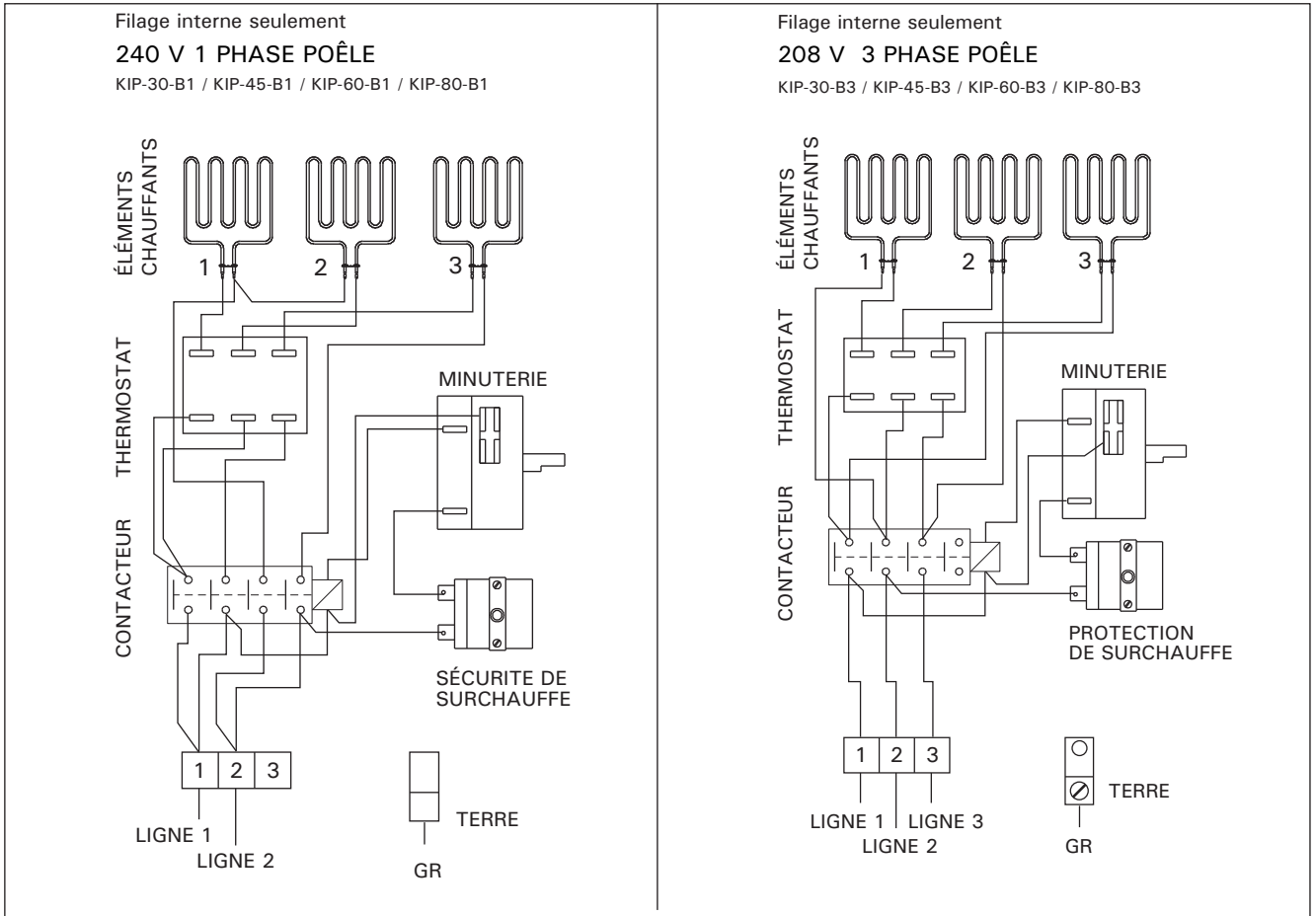


Figure 5.

POELÉ POUR SAUNA (240 V) AVEC COMMANDES INTÉGRÉES						POELÉ POUR SAUNA (208 V) AVEC COMMANDES INTÉGRÉES					
Modèle	kW	Ampères	Tension	PH	Calibre de fil	Modèle	kW	Ampères	Tension	PH	Calibre de fil
KIP-30-B1	3.0	12.5	240	1	#12/2	KIP-30-B3	3.0	8.3	208	3	#14/3
KIP-45-B1	4.5	18.8	240	1	#10/2	KIP-45-B3	4.5	12.5	208	3	#14/3
KIP-60-B1	6.0	25.0	240	1	#10/2	KIP-60-B3	6.0	16.7	208	3	#12/3
KIP-80-B1	8.0	33.3	240	1	#8/2	KIP-80-B3	8.0	22.2	208	3	#10/3

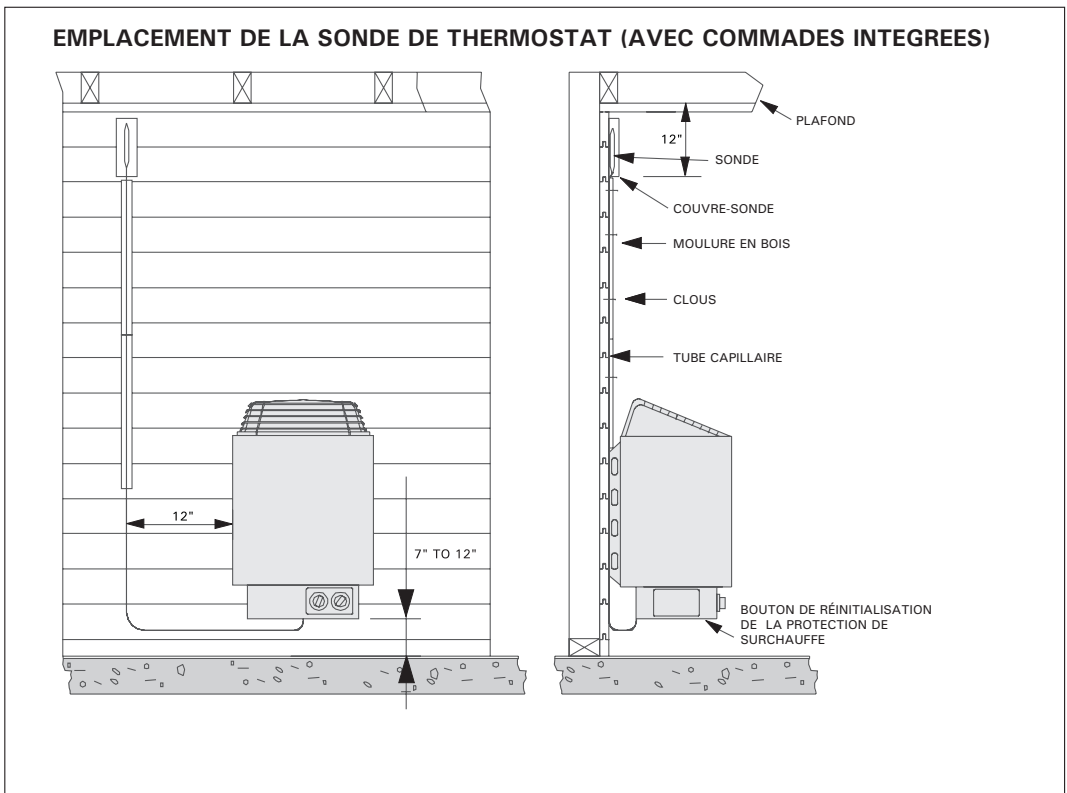


Figure 5a.

CÂBLAGE ET RACCORDEMENT DU POÊLE

Important ! Poêles avec commandes intégrées : Avant de raccorder les fils électriques dans la boîte de l'appareil, retirez le tube capillaire et la sonde de la boîte et montez-les sur le mur à gauche ou à droite de l'appareil. Recouvrez le tube avec la moulure en bois fournie, enroulez l'excédent de tube et placez-le sous l'appareil, près du sol.

Consultez les tableaux de la page 17 pour connaître la taille de fil et l'ampérage appropriés. Voir la page 16 pour les dégagements requis. Tout câblage à l'intérieur des murs et plafond du sauna doit être conçu pour une température de 90°C (194°F) et un fil de cuivre doit être utilisé. Faites passer le fil dans un conduit flexible hermétique à partir du mur au poêle et raccordez-le à la boîte à l'arrière du poêle avec un connecteur de 90°C (194°F). Raccordez les fils aux bornes 1 et 2 et le fil de terre aux bornier correspondant. (Il faut d'abord enlever la plaque de recouvrement sous le poêle).

Remarque ! Si vous prévoyez faire le raccordement du poêle dans le futur, amenez le câblage dans un conduit flexible hermétique dans le sauna à l'endroit prévu pour le poêle et laissez 3' (900 mm) pour le raccordement (il peut être coupé à la bonne longueur ultérieurement).

MINUTERIE

Les poêles ont une minuterie de 60 minutes (de 0 au grand 1 sur le cadran). Si vous souhaitez utiliser le cycle complet de 60 minutes, tournez le bouton de la minuterie au-delà du premier 1 jusqu'au numéro 2 ou 3 sur le cadran. Retournez ensuite au grand numéro 1 jusqu'à ce que vous entendiez un clic. Laissez le bouton sur ce réglage et le sauna fonctionnera pendant 60 minutes avant de s'éteindre automatiquement.

Prévoyez au moins 30 minutes pour que la pièce atteigne la température moyenne d'un sauna. **Remarque !** Si vous réglez la minuterie au delà du premier numéro 1, la minuterie ne se mettra pas en marche avant que le temps réglé soit écoulé. La minuterie de 60 minutes est silencieuse, elle ne fait pas tic-tac.

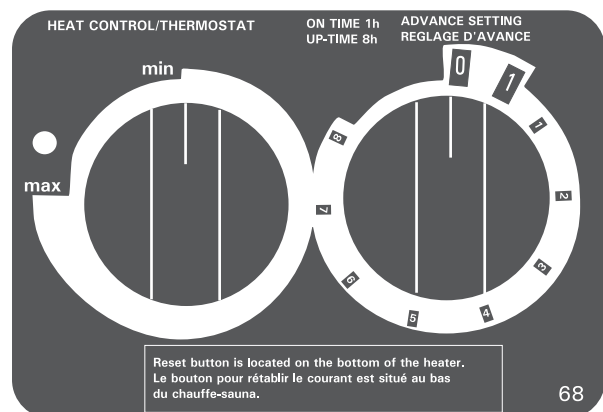
La minuterie a une fonction supplémentaire : une minuterie de délai allant jusqu'à 8 heures (petits chiffres 1 à 8 sur le cadran de la minuterie). Si vous souhaitez pré-régler le chauffage de votre sauna pour qu'il s'allume automatiquement en votre absence, vous pouvez le faire jusqu'à 8 heures à l'avance.

Par exemple, si vous réglez le bouton de la minuterie sur le réglage 3, le sauna s'allumera 3 heures plus tard et sera prêt au bout de 3 heures et demie (en tenant compte d'un temps de chauffage d'une demi-heure). Le chauffage s'éteint automatiquement au bout d'une demi-heure. Si vous souhaitez continuer à utiliser le sauna, remettez la minuterie de 60 minutes sur le grand numéro 1.

Avant faire le premier test, remplissez le bac de pierres avec des pierres ignées fournies d'un détaillant officiel Harvia. Fixez la grille de protection métallique sur le haut du poêle. (Voir les informations générales sur le lavage et le placement des pierres).

Recouvrez la sonde avec le couvre-sonde protecteur fourni en plaçant la sonde dans le coure-sonde, le fixer au mur avec les vis fournies et fermer le coure-sonde en pliant les côtés pour recouvrir la sonde. Soyez prudent en clouant les baguettes de protection du tube capillaire à ne pas percer dit tube. En cas de perforation, le thermostat doit être entièrement remplacé.

Important ! Le poêle doit être raccordé à un disjoncteur bipolaire standard, aucun disjoncteur GFI doit être utilisé. Si ce poêle est connecté à un disjoncteur GFI, des déclenchements intempestifs peuvent se produire, provoquant une usure inutile et involontaire des composants internes. Si l'appareil est connecté à un disjoncteur GFI, la garantie sur les composants internes sera annulée.



Les poêles ont une commande de chaleur (thermostat) qui doit être réglée entre le chauffage minimum et le chauffage maximum, sinon la minuterie ne fera pas chauffer le sauna. Réglez la commande de chaleur au maximum et chauffez le sauna pendant une demi-heure à une heure pour observer la température adéquate du sauna. Si la pièce est trop chaude, ramenez le bouton de réglage de la chaleur vers le réglage minimum jusqu'à ce que la température désirée soit atteinte.

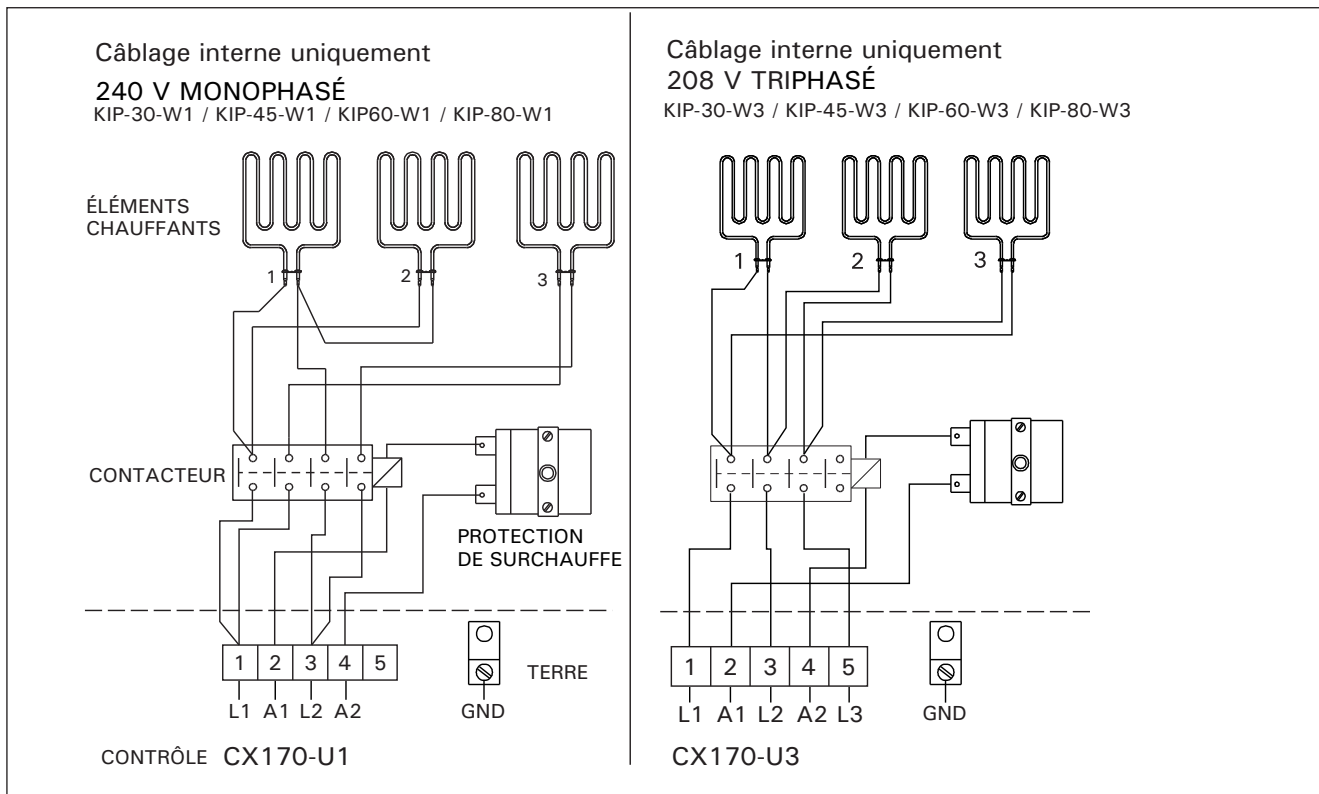


Figure 6. Le schéma de câblage

POÊLE POUR SAUNA (240 V) AVEC COMMANDE MURALE						
Modèle	kW	Ampères	Tension	Phase	Calibre de fil	Contrôle
KIP-30-W1	3.0	12.5	240	1	#12/2 + #14/2	CG170-U1/CX170-U1
KIP-45-W1	4.5	18.8	240	1	#10/2 + #14/2	CG170-U1/CX170-U1
KIP-60-W1	6.0	25.0	240	1	#10/2 + #14/2	CG170-U1/CX170-U1
KIP-80-W1	8.0	33.3	240	1	#8/2 + #14/2	CG170-U1-15/CX170-U1-15

POÊLE POUR SAUNA (208 V) AVEC COMMANDE MURALE CG170-U3/CX170-U3					
Modèle	kW	Ampères	Tension	Phase	Calibre de fil
KIP-30-W3	3.0	8.3	208	3	#14/3 + #14/2
KIP-45-W3	4.5	12.5	208	3	#14/3 + #14/2
KIP-60-W3	6.0	16.7	208	3	#12/3 + #14/2
KIP-80-W3	8.0	22.2	208	3	#10/3 + #14/2

SAUNA : INFORMATIONS GÉNÉRALES

DISPOSITION DES PIERRES : ne faites pas fonctionner le poêle sans pierres !

Les pierres pour poêle sont importantes en termes de sécurité de l'appareil. Afin de conserver la garantie, l'utilisateur est responsable du bon entretien du compartiment à pierres conformément aux spécifications et aux instructions.

Utilisez uniquement les pierres achetées auprès d'un distributeur officiel Harvia. Les pierres de poêle appropriées sont en péridotite, en dolérite à olivine, en olivine et en vulcanite. Lavez les pierres à l'eau claire et placez-les à l'intérieur du boîtier de l'appareil de manière qu'elles se trouvent entre et autour des éléments chauffants. Ne forcez pas les pierres entre les éléments car cela pourrait les endommager.

Utilisez d'abord des pierres plus petites et continuez à remplir de pierres plus grosses jusqu'à ce qu'elles soient à environ 2" (50 mm) sous la grille de protection.

Vous n'aurez pas forcément besoin de toutes les pierres.

La garantie ne couvre pas les défauts dus à l'utilisation de pierres décoratives ou de pierres de poêle non recommandées par le fabricant.

Les pierres doivent être placées librement dans le poêle afin que la chaleur circule bien autour et à travers elles. Les pierres doivent cependant recouvrir complètement les éléments chauffants !

Verser de l'eau sur les éléments exposés peut endommager l'élément chauffant !

TEST DU POËLE DU SAUNA

1. Une fois que le sauna a été correctement raccordé par un électricien agréé conformément au schéma approprié et aux codes locaux, mettez le disjoncteur du sauna en marche dans le panneau de disjoncteurs principal. (**Remarque : l'électricien doit étiqueter le disjoncteur « Sauna »**).
2. Mettez la commande thermostatique (chauffage) en marche (elle est située soit sur votre appareil, soit sur votre télécommande murale. Si vous avez une commande murale le témoin lumineux s'allume pour indiquer que le sauna est en train de chauffer). Réglez la minuterie à 10 ou 15 minutes.
3. Dans les 5 minutes qui suivent, vous devriez pouvoir sentir la chaleur des éléments chauffants lorsque vous tenez votre main près de l'élément chauffant. Ne touchez pas aux éléments ou aux pierres quand le poêle est en fonction ou s'il est chaud!
4. Si le sauna ne chauffe pas, consultez les informations sur le dépannage.
5. Il est normal que de la fumée apparaisse lors du premier chauffage car le revêtement protecteur de l'élément doit brûler. **Faites fonctionner le sauna pendant 1 heure avant de l'utiliser pour la première fois afin de laisser la fumée se dissiper.**

DÉPANNAGE

A. Si le sauna ne fonctionne pas après l'installation initiale et le raccordement :

1. Vérifiez le disjoncteur pour vous assurer qu'il est en marche. Le disjoncteur doit également être de la bonne taille.

2. Vérifiez que la protection de surchauffe n'a pas déclenché.
3. Assurez-vous que le thermostat et la minuterie sont tous deux en position de marche.
4. Assurez-vous que la minuterie s'arrête. Si la minuterie a été court-circuitée, le poêle ne fonctionnera pas.

B. Si le poêle à déjà fonctionné mais qu'il ne fonctionne plus :

1. Vérifiez le disjoncteur pour vous assurer qu'il est en marche.
2. Vérifiez la minuterie pour voir si elle s'arrête.
3. Vérifiez le bouton de réinitialisation de la protection de surchauffe du poêle (la réinitialisation se trouve sous l'appareil de chauffage (modèles muraux)) pour voir s'il a été libéré.
4. Appelez votre électricien ou votre technicien pour obtenir de l'aide.

REMARQUE : Il est absolument défendu d'installer un DISJONCTEUR DE FUITE À LA TERRE (GFI) dans un sauna. S'il est utilisé, le disjoncteur se déclenchera et des dommages pourraient en résulter.

C. Si le poêle du sauna fonctionne, mais que la salle de sauna n'atteint pas la température du sauna (température normale du sauna de 70 à 85 °C (160-185 °F)) :

1. Vous devez prévoir au moins 30 minutes pour le temps de chauffage du sauna.
2. Le thermomètre du sauna est-il placé à 150 mm (6") du plafond, au-dessus ou à proximité du poêle du sauna (c'est l'emplacement approprié pour la lecture de la température du sauna) ? Les lectures du thermomètre varient selon la hauteur de la pièce et l'emplacement. Par exemple, 82 °C (180 °F) au-dessus de l'élément chauffant du sauna = 74 °C (165 °F) sur le mur opposé = 60 °C (140 °F) au niveau du banc supérieur = 49 °C (120 °F) au niveau du banc inférieur = 38 °C (100 °F) au niveau du sol.
3. Vérifiez le calibre des fils, la taille de l'ampérage et le câblage approprié (selon les schémas et les informations), ainsi que le câblage en cuivre nécessaire.
4. Vérifiez l'emplacement des pierres pour vous assurer qu'elles sont bien espacées autour des éléments, afin de garantir une bonne circulation d'air. Des pierres trop serrées limiteront la circulation d'air et réduiront la capacité de chauffage.
5. Vérifiez les pertes de chaleur (autour ou sous la porte, autour du plafonnier ou du ventilateur - nous ne recommandons pas de plafonnier et un ventilateur n'a pas sa place dans un sauna.
6. La pièce est-elle correctement isolée ?
7. Le plafond est-il plus haut que 7' (2100 mm) ?
8. Après avoir vérifié tout ce qui précède, retirez les pierres et vérifiez les éléments de l'appareil de chauffage pour voir s'il y a des trous ou des zones brûlées. (Seulement si l'appareil a été utilisé pendant un certain temps).

Attention ! Électricien ou technicien de maintenance !

1. AVANT DE PROCÉDER À L'ENTRETIEN DU POËLE, DE LA COMMANDE, DU CONTACTEUR

OU DE RÉINITIALISER LA LIMITE SUPÉRIEURE, COUPEZ LE COURANT AU NIVEAU DU DISJONCTEUR !

2. Ouvrez le boîtier de connexion pour vérifier que les fils sont bien branchés. Le fil du poêle et tous les fils qui y sont raccordés doivent être en cuivre.
3. Regardez si le câblage de la minuterie ou du thermostat comporte des brûlures ou des courts-circuits.

La garantie sur les pièces du poêle est annulée si l'installateur/électricien ne suit pas les informations nécessaires fournies sur le câblage ou ne respecte pas le code en ce qui concerne le calibre des fils, l'intensité, etc.

CIRCUIT DE SURCHAUFFE



Avant de réinitialiser le bouton de protection de surchauffe, coupez le courant au niveau du disjoncteur !

Chaque poêle est équipé d'une protection de



La protection de surchauffe de l'appareil peut également se déclencher à des températures inférieures à -5 °C / 23 °F (stockage, transport, environnement). Avant l'installation, gardez l'appareil dans un environnement chaud. La protection de surchauffe peut être réinitialisée lorsque la température de l'appareil est d'environ 18 °C / 64 °F. La protection de surchauffe doit être réinitialisée avant d'utiliser l'appareil. Voir le manuel d'utilisation > Réinitialisation du protecteur de surchauffe.

surchauffe par mesure de sécurité. En cas de surchauffe, le poêle s'éteint automatiquement et ne se rallume pas avant d'avoir refroidi.

Pour réinitialiser la protection de surchauffe, repérez le bouton de réinitialisation (en bas, à l'avant sur les modèles muraux, et poussez-le vers le haut jusqu'à ce que le contacteur se déclenche. Vérifiez qu'il n'a pas été installé de disjoncteur de fuite à la terre (GFI).

Aucune PRISE DE COURANT n'est autorisée dans un sauna. Si un haut-parleur est installé dans un sauna, il ne doit pas être situé à plus de 3' (900 mm) du sol et doit être éloigné du poêle. (Consultez le fabricant pour connaître les spécifications requises.)

L'ÉCLAIRAGE de style doit être mural doit avoir un boîtier d'installation hermétique à la vapeur encastré dans le lambris intérieur. Il doit être monté au max. à 6' 6" du plancher, sans être situé directement au-dessus du poêle ou des bancs supérieurs. L'ampoule ne doit pas dépasser 75 watts. **REMARQUE** : la chaleur peut provoquer une usure accélérée de l'éclairage. Pour obtenir des résultats plus durables, placez l'éclairage au bas de la pièce, loin du chauffage. Le dessous des bancs est un emplacement idéal.

Pour des raisons de sécurité, il est nécessaire d'installer une **CEINTURE DE PROTECTION AUTOUR DU POÊLE** de 1" x 2" (25 x 50 mm) ou 2" x 2" (50 x 50 mm) de la même essence de bois que l'intérieur du sauna. Voir les figures 2-4 pour connaître le dégagement nécessaire autour du

poêle. La ceinture doit être fixée à la paroi et ne doit pas dépasser le haut du poêle, au-dessous du niveau des pierres.

CONSTRUCTION DE LA CABINE : INFORMATIONS GÉNÉRALES

A. CADRAGE

2" x 4" (50 x 100 mm) tout matériau en bois approprié, 16" (406 mm) c. à c.

B. HAUTEUR DU PLAFOND

Pas plus haut que 7'0" (2100 mm).

C. ISOLATION

Isolation en fibre de verre ou en laine de roche avec un facteur d'isolation minimum de R11 dans tous les murs et le plafond. Un pare-vapeur en aluminium recouvert de papier est installé sur l'isolation de tous les murs et du plafond, le côté aluminium étant orienté vers la salle de sauna.

D. GYPSE

Voir les codes locaux. N'est pas requis dans la plupart des résidences. Voir les codes locaux commerciaux. Si des panneaux de gypse sont utilisées, appliquez un fond de clouage en bois de 1" x 2" (25 x 50 mm) afin de pouvoir fixer les planches de mur et de plafond.

E. LAMBRIS

Utilisez du bois résineux clair à rainure et languette séché au four, tel que l'épinette, le pin, le tremble, l'aulne, le cèdre ou tout autre matériau résineux approprié (dont la teneur en humidité ne dépasse pas 11 %).

F. BANCS

Utilisez du bois assorti ou tout autre bois approprié, tel que décrit à la section E. Réduisez au minimum les nœuds sur les bancs, car ils peuvent devenir très chauds et être inconfortables pour les baigneurs. Fixez par le bas pour éviter les brûlures.

G. GARDE-CORPS DU CHAUFFE-EAU

Utilisez du bois résineux assorti.

H. PORTE

Doit s'ouvrir vers l'extérieur et ne doit pas avoir de serrure.

I. REVÊTEMENT DE SOL

Béton, carreaux de céramique ou vinyle résistant.

J. VENTILATION

La ventilation doit être assurée par un entrée d'air près du poêle, à 50 mm (2") du plancher, et par une sortie d'air sur le mur opposé (si possible), à une distance de 300 mm (12") à 600 mm (24 po) du plancher. Les événements doivent être réglables et permettre de renouveler l'air 5 fois par heure. Le sauna doit être muni des ventilations prévues, conformément aux exigences des autorités locales.

K. LUMIÈRE

L'éclairage mural, de type étanche à la vapeur, peut être utilisé à une distance minimale de 6" (150 mm) du plafond ; il peut être placé plus bas dans la pièce. La chaleur peut accélérer l'usure de l'éclairage, pour une installation plus durable, placez les lumières plus bas dans le sauna, loin du poêle (sous les bancs est idéal).

L. ACCESSOIRES

Le seau, la louche et le thermomètre sont

essentiels. Le thermomètre doit être placé au-dessus du poêle du sauna, à 6" (150 mm) du plafond, pour une lecture correcte de la température. Les thermomètres peuvent nécessiter un étalonnage avant utilisation pour des lectures précises. D'autres accessoires tels que l'hygromètre, le sablier, les brosses, etc. sont disponibles.

M. INSTRUCTIONS D'ENTRETIEN

Sont incluses à la fin de ce manuel.

N. PANNEAUX D'AVERTISSEMENT

Sont fournis avec le poêle à sauna. Le panneau métallique « WARNING / AVERTISSEMENT » doit être fixé au mur, près du poêle, dans un endroit visible. Le panneau métallique « CAUTION / AVERTISSEMENT » doit être fixé à l'extérieur, sur la porte du sauna.

ATTENTION !

- **Ne pas fumer, consommer d'alcool ou faire de l'exercice dans le sauna !**
- **Ne pas passer plus de 30 min de suite dans le sauna car une exposition excessive peut nuire à la santé. Le sauna ne doit pas être utilisé comme test d'endurance !**
- **Les personnes en mauvaise santé doivent consulter leur médecin avant d'utiliser le sauna !**
- **Évitez le feu, ne placez aucun matériau combustible sur le poêle (serviettes, maillots de bain, seau ou louche en bois) !**
- **Utiliser uniquement de l'eau propre du robinet sur les pierres. Ne pas utiliser d'eau de piscine ou de spa ou de puits car du chlore peut être produit et les éléments chauffants peuvent être endommagés !**
- **L'hyperthermie se produit lorsque la température interne du corps dépasse de plusieurs degrés la température normale du corps (98,6 °F (37°C)). Les symptômes d'hyperthermie incluent une hausse de la température interne du corps, des vertiges, la léthargie, la somnolence et l'évanouissement.**

Les effets de l'hyperthermie sont les suivants :

- A) L'incapacité à percevoir la chaleur ;
- B) L'indifférence au besoin de sortir de la pièce ;
- C) L'inconscience du danger imminent ;
- D) des lésions fatales chez les femmes enceintes ;
- E) l'incapacité physique à sortir de la pièce ;
- F) la perte de connaissance.

AVERTISSEMENT : La consommation d'alcool, de drogues ou de médicaments peut augmenter considérablement le risque d'hyperthermie mortelle.

INSTRUCTIONS D'ENTRETIEN

1. Utilisez uniquement de l'eau propre sur les pierres du sauna. N'utilisez pas l'eau d'un piscine, d'un spa ou d'un puits, car elle détruirait votre poêle.
2. Utilisez toujours de l'eau propre dans les seaux du sauna et videz l'eau après chaque utilisation. Frottez les seaux et les louches de temps en temps lorsqu'une pellicule commence à se former après utilisation. Utilisez une doublure en plastique dans le seau pour éviter des fuites d'eau.

3. Frottez les bancs avec une brosse douce, en utilisant de l'eau et du savon ou un désinfectant doux, lorsque cela est nécessaire - environ une fois par semaine dans les saunas commerciaux, ou selon l'utilisation du sauna. Pour des raisons sanitaires, chaque baigneur doit s'asseoir ou s'allonger sur une serviette (ceci prolongera la durée de vie du banc).
4. Retirez les revêtements de sol amovibles et lavez le sol imperméable avec un désinfectant (par exemple, Pine Sol) environ une fois par semaine ou aussi souvent que nécessaire. Nettoyez le revêtement de sol amovible à l'aide d'une hose d'eau.
5. Pour préserver la beauté du poêle, essuyez les tâches d'eau avec un chiffon humide de temps en temps.
6. Nos poêles de sauna ne nécessitent aucune maintenance particulière lorsqu'ils ont été correctement installés par un électricien qualifié. Au bout de 5 années d'utilisation, il peut être nécessaire de remplacer les pierres si elles se sont effritées ou pulvérisées.
7. Nous recommandons fortement l'utilisation d'un sol qui peut être facilement nettoyé (béton, carrelage ou sol coulé). Le sauna peut ainsi être facilement gardé propre. Il est fortement déconseillé de mettre un tapis dans un sauna ! Un tapis deviendrait un support idéal pour les bactéries dans l'environnement humide du sauna. Il favoriserait également la transmission des maladies des pieds telles que le pied d'athlète. Pour les mêmes raisons, le caillebotis en bois ne doit pas être utilisé comme revêtement de sol.
8. Dans une nouvelle construction, un siphon de sol doit également être installé pour faciliter le nettoyage et l'entretien, en particulier dans les saunas commerciaux.
9. Scellez le bois autour de la vitre de la porte (à l'intérieur et à l'extérieur) avec du le scellant Harvia pour éviter qu'il ne se déforme.
10. Lorsque le bois du sauna est taché par la transpiration, il est possible de le sabler légèrement avec un papier sablé fin pour renouveler sa beauté. Nous ne recommandons pas l'utilisation de teintures ou de scellants, car des vapeurs toxiques peuvent se produire lorsqu'ils sont chauffés. Cependant, deux couches de scellant Harvia peut être utilisées sur les bancs en bois d'un sauna commercial afin de faciliter le nettoyage du bois et de le maintenir en bon état sanitaire - le bois n'absorbera pas la transpiration.
11. La cabine du sauna se réchauffe plus rapidement si la sortie d'air est fermée pendant la période de chauffage. L'entrée d'air d'aération basse peut toujours rester ouverte.
12. Les panneaux d'avertissement requis doivent être installés selon les instructions.

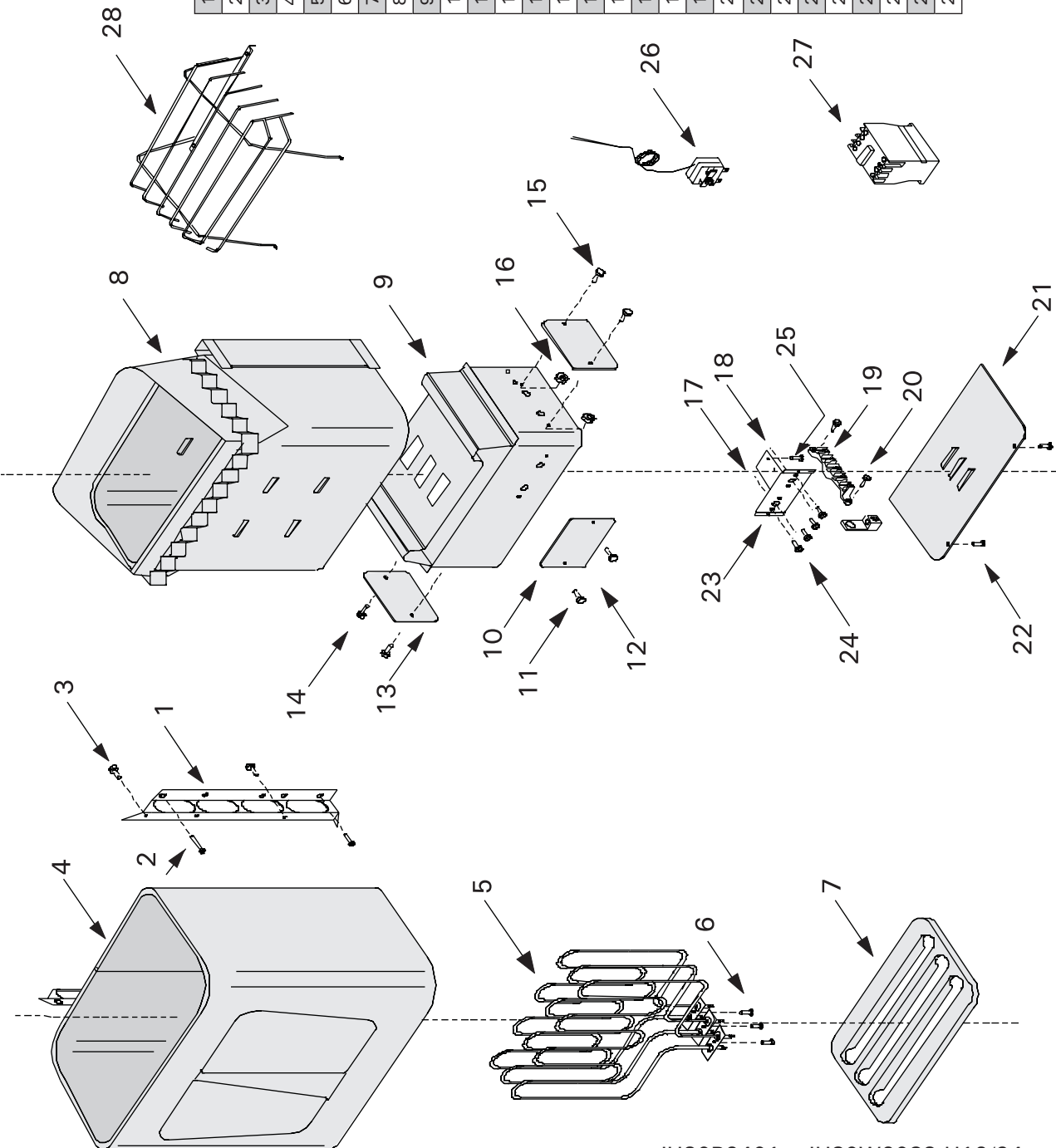
Le propriétaire du poêle du sauna doit s'assurer que le poêle du sauna est correctement éteint après chaque bain.

Le propriétaire du poêle doit respecter les instructions d'entretien !

KIP-60-B1/KIP-60-B3

Poêles de sauna -W1, W3 sans elements n° 12, 17 et 18

1.	Console d'installation
2.	Vis autotaraudeuse
3.	Vis
4.	Corps du poêle
5.	Élément chauffant
6.	Vis à tête fendue
7.	Grille
8.	Logement des pierres, monté
9.	Boîtier électrique, monté
10.	Plat
11.	Vis
12.	Vis autotaraudeuse
13.	Plaque signalétique
14.	Vis à tête fendue
15.	Vis à tête fendue
16.	Écrou
17.	Thermostat
18.	Minuteur
19.	Bornier (USA)
20.	Vis du bornier (USA)
21.	Socle
22.	Vis
23.	Crochet
24.	Vis à tête fendue
25.	Vis à tête fendue
26.	Détecteur/interrupteur de surchauffe
27.	Contacteur (USA)
28.	Grille de protection



JH30B2401 - JH80W2083 H12/94
 JF30B2401 - JFIN802083 H12/94

GARANTIE

Ce poêle de sauna est garanti pour une durée d'un an à partir de la date d'achat et comprend toutes les pièces du poêle, tel que le thermostat, la minuterie, le contacteur, etc. Les éléments chauffants sont des biens consommables et ne sont donc garantis que lors de la première utilisation.

La présente garantie couvre uniquement les défauts de fabrication et de matériau et comprend l'échange des pièces défectueuses contre de nouvelles pièces fournies par le fabricant ou l'importateur une fois que les pièces défectueuses lui ont été renvoyées. Le remplacement des pièces sous garantie ne prolonge pas la période de garantie au-delà de l'année d'origine.

La garantie ne couvre pas les défaillances provoquées par l'usure normale, une installation incorrecte, un mauvais entretien, le non-respect des instructions d'installation, d'utilisation et d'entretien fournies par le fabricant ou les modifications apportées au sauna.

La présente garantie est annulée si le poêle est incorrectement utilisé. Il est interdit de verser de l'eau de piscine, de spa ou de puits sur les pierres du sauna car les produits chimiques endommageraient le poêle. La cabine du sauna doit être chauffée pendant au moins 30 minutes avant que de l'eau ne

soit versée sur les pierres. Pas plus d'une ou deux louchées d'eau à la fois ne doivent être versées sur les pierres chaudes. La présente garantie est annulée si une douche a été installée dans la cabine du sauna.

La présente garantie ne couvre ni les frais de livraison de la pièce défectueuse ni les frais de main-d'œuvre de réparation sur place. Si le poêle de sauna est renvoyé au fabricant ou à l'importateur dans un délai de cinq ans à partir de la date d'achat, l'importateur fournira gratuitement la main-d'œuvre pour les réparations mais facturera les pièces si la date d'achat remonte à plus d'un an.

La présente garantie est annulée si l'installation et le câblage n'ont pas été effectués par un électricien certifié ou agréé et un représentant qualifié qui doit apposer sa signature ci-dessous.

La présente garantie est annulée si elle n'est pas remplie et renvoyée au point d'achat par courrier postal ou électronique dans un délai de 15 jours à partir de la date d'achat et elle ne s'applique qu'à l'installation d'origine du produit et au premier acheteur.

POÊLE DE SAUNA _____

NUMÉRO DE MODÈLE _____

NUMÉRO DE SÉRIE _____

DATE D'ACHAT _____

PREMIER PROPRIÉTAIRE _____

ADRESSE _____

ACHETÉ CHEZ _____

L'ÉLECTRICIEN NOM _____

ET ADRESS DE L'ENTREPRISE _____

SIGNER ICI _____

NUMÉRO DE LA LICENCE DE L'ÉLECTRICIEN _____

OU NUMÉRO D'IDENTIFICATION FISCALE _____

DATE DE CÂBLAGE &

RACCORDEMENT ÉLECTRIQUE _____