

IS Series Owner's IS 440 Manual

with SL2 Control with CB 15-1 and Bluetooth Sound System



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READ BEFORE INSTALLATION

Read all instructions carefully before installation including instructions packaged separately with the sauna heater. Please leave all instructions and warranty with the owner.

WARNING: When using electrical sauna heaters and associated sauna products, basic precautions must be followed, including the following:

1. Grounding is required.
NOTE: A GFCI (Ground Fault Interrupt Circuit) device is not required by ETL. A GFCI may be installed if required by local codes but will nuisance trip during use of the product. - CAUTION: Loose wire connections can cause heat damage to wires, terminal blocks and other components and may void the warranty.
2. No electrical receptacle shall be installed in the sauna room.
3. Do not tamper with the door or install a latching or locking system. Malfunction of which may cause entrapment inside the heated room.
4. Do not block ventilation openings. Vents must be kept free of obstruction so proper airflow is maintained in the sauna room. Do not stack anything in front of the vents or push the back of the room up tight to a wall surface.

PRECAUTIONS BEFORE USE

WARNING: Prolonged exposure to elevated temperatures is capable of inducing hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches several degrees above the normal body temperature of 98.6°F. The symptoms of hyperthermia include an increase in the normal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of the hyperthermia include failure to perceive heat, unawareness of impending hazard, fetal damage in pregnant women, physical inability to exit the room and unconsciousness.

WARNING: The use of alcohol, drugs, or medication is capable of greatly increasing the risk of fatal hyperthermia.

CAUTION FIRE HAZARD: Do not use the sauna room for drying clothes, bathing suits, etc. Do not hang towels above the heater or place any object, other than the rocks supplied, in the heater. If any darkening of the wall around the heater is noticed, discontinue sauna use immediately.

HARDWARE INCLUDED (See Room for specific list)

IS 440 Description	Location	Quantity
Screw (M3x30mm)	Heater Guard	8
Wood Caps	Visual Locations	8
Screw (M4x17mm)	Door Handle	2
Black Screw (M2.5x10 mm)	Junction Boxes	12

ROOM ASSEMBLY

The portable sauna unit comes with an option of two heater sizes; 1.7kW or 2.2kW.

The 1.7kw can be used on all 15 amp or 20 amp household outlets (the standard 120 volt outlet found in all homes). **A dedicated circuit is advisable to avoid unnecessary tripping of the breaker.**

The 2.2kW unit can only be used on dedicated 120 volt, 20 amp circuit. **A dedicated circuit is required to avoid unnecessary tripping of the breaker.**

The Sauna should be plugged into a NEMA (5-15R or 5-20R) Amp electrical outlet.



- Each panel is heavy. Be careful to avoid injury when installing, especially the top panel.
- Two adults are required for the installation of sauna room.
- There is a pin or a slot on the sides of each panel, which will be installed correspondently with one pin to one slot in the following way when installing:
 - The panel with pin should be lifted about 1 inch (2 cm) higher than the panel with the slot (Refer to Picture 1).
 - Place the panel with the pin against the panel with the slot (Refer to Picture 2), and then slide the panel with the pin down until the two panels are equal in height (Refer to Picture 3).
 - If they are not equal in height or there is an obvious gap between the two panels, that means they are not properly attached, and you should try again.



Picture 1



Picture 2



Picture 3

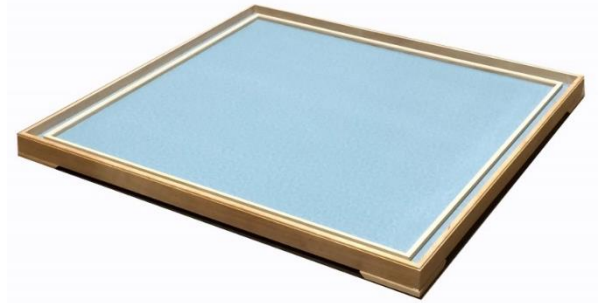
Note: The vents must be kept free from any obstruction so proper airflow is maintained in the sauna room. Do not stack anything in front of the vents or push the room wall with vents up tight to a wall surface.

ROOM ASSEMBLY (CONT.)

1. Place the floor panel in the desired location on a level surface

Note: The floor panel must be level before installing wall and ceiling panels. If the surface is not level, you may need to shim the bottom panel to get level.

The base is numbered to correspond with the panels for correct locations. The right wall is labeled # 1, the back-right panel is labeled #2 and etc...



2. Place and latch the right wall to the back wall.

Note: One person should hold the wall until step 3 is completed

3. Place and latch the left wall to the left back wall.



4. Place and latch front wall to right and left side walls.



5. Place the ceiling panel on the wall panels.

Note: Make sure the top panel's front is facing the front, that the trim of the top panel fits completely around the walls and that the connection wires from the control panel wall protrude through the hole of the ceiling panel. Be careful to not kink or pinch the wires.

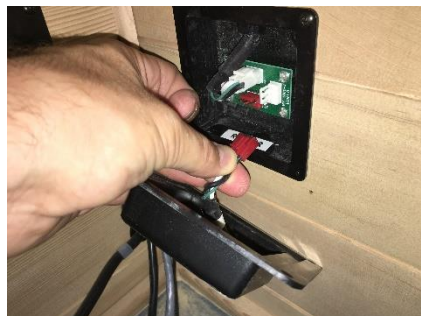
ELECTRICAL / HEATER ASSEMBLY

6. Connect the wires in the ceiling panels accessed via flip-up panel as shown above. There are three access doors. Back Right, Right Wall and Front Right.

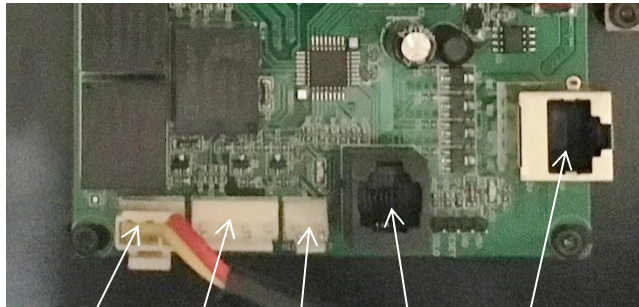


Note: Match each wire connection to the similar corresponding connector type.

7. Connect the IR wires from the back wall to the Red connector on the two side walls.
8. Place cover over the connections and secure it with 4 screws to the wall.



- Place CB Box on the floor for easy access. Remove the cover to access the electrical connections.



- | | | | | |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|

- Bluetooth Power (3 pin from wall)
- Room Temp Sensor (4 pin from wall)
- High Limit (2 pin from sauna heater)
- Control (RJ 11 from wall)
- Lights (RJ 45 from wall)

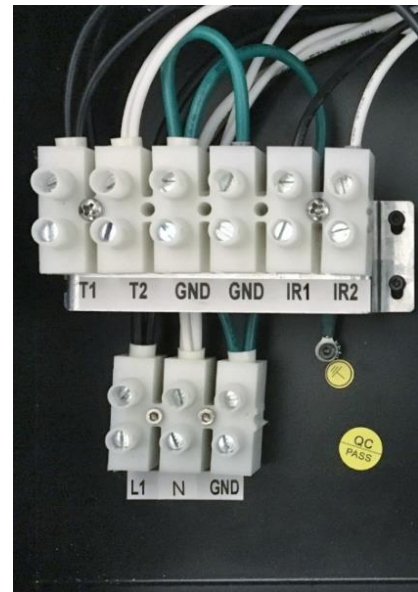
NOTE: All installation and service to this equipment should be performed by qualified licensed personnel in accordance with local and national codes.

NOTE: A GFCI (Ground Fault Interrupt Circuit) device is not required by NEC. A GFCI may be installed if required by local codes but will nuisance trip during use of the product.

CAUTION: Loose wire connections can cause heat damage to wires, terminal blocks and other components and may void the warranty.

- Connect all the quick connections according to the picture and installation manual into the CB Box.

Note: All the low voltage connections have unique connectors.



- Connect electrical supply wires from back wall to the lower terminal block labeled L1, N, and Gnd.
- Connect wires from the heater to upper terminal block labeled T1, T2, and Gnd to the sauna heater.
- Connect the high limit wire from sauna heater to position 3 (See above picture.)
- Connect wires from the back wall labeled IR1, IR2, and Gnd to the upper terminal block labeled IR1, IR2 and GND.
- Mount the CB Box to the back wall with 4 screws provided by locating the lower left corner of the box to wood corner trim on wall.





16. Place cover on CB Box with the four screws provided.
17. Sit sauna heater on floor for testing only.
18. Ensure all electrical connections are secure and safe.
19. Apply power to the CB box and ensure the control lights up and is active before installing the benches. See Controls Section of Operation information.

BENCH / INTERIOR ASSEMBLY

Note: Install benches after electrical is work is completed and the control is working by testing the lights.

Note: Bench supports are already installed in the proper location for the upper and lower benches, so no assembly of bench supports is required.

The **IS 44** bench system has two benches. (Upper and Lower Bench)



20. Install the Bench Skirt.

21. Connect wires to the bench skirt from back wall and place the cover over the connectors and secure it to the bench skirt with four screws to prevent moisture from getting to the connections.



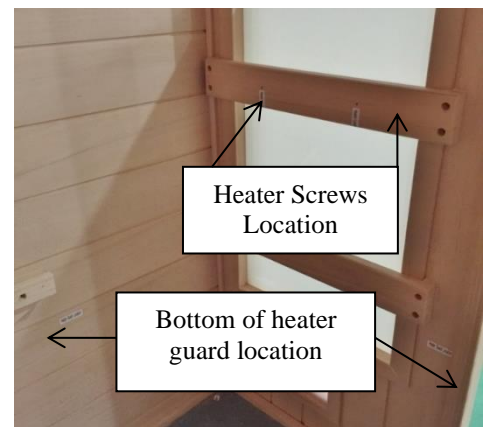
22. Install the Upper Bench.

23. Install the Lower Bench (narrower) and slide it so it is flush with bench skirt (ease of all the way back).

24. The wall is labeled and predrilled for the top lag screws from the sauna heater hardware.

25. Remove the two screws on the top back of heater to remove the rock grill.

26. Remove the mounting bracket from the back from the heater.



27. Secure the sauna heater-mounting bracket to wall brackets using the in-pre-drilled holes.

28. Hang the heater on the mounting bracket tabs.

29. Rinse the rocks of dirt and dust. Install the rocks into the heater. Place small or flat rocks around the outer perimeter of heat chamber, including the ends. Place larger rocks loosely in middle of heater. Fill the heater until flush with the top of the outer shroud. Add 3 to 4 large rocks to top of heater.



***Note:** There will be extra rocks provided. The concept of rock placement is to promote good airflow through the heater.

***Note:** Use only the “olivine” sauna rocks provided with the heater. If other rocks are used, the warranty is void.

Never operate the heater without rocks.

30. Install the rock grill to the top of the heater with the two screws.

31. Assemble and install the wood heater guard around the sauna heater using the 1 1/8” screws provided. The heater guard location is marked on both walls with a label. Place the bottom of the heater guard to cover the label on the walls and secure into location.





32. Install door handle with torq tip screws provided.



Note: The finished handle goes on the outside of room.

SL2 IS (SaunaLogic 2) Control Operation

Traditional Sauna Operation

Press the control POWER  icon to turn on the sauna control. Press the SL2 IS  icon for Traditional Sauna. The default settings for the temperature is 194°F, the bath time is 60 minutes. These settings are adjustable (as described below) from 119° to 194°. Length of sauna can be set from 0 to 60 minutes. The time delay before start can be up to 24 hours. Any changes are remembered by the heater for your next bath. Should the heater power be lost then restored, the settings will return to their default values.


Infrared Sauna Operation


Press the control POWER  icon to turn on the sauna control. Press the SL2 IS  icon for IR Sauna. The default settings for the temperature is 149°F, the bath time is 60 minutes. These settings are adjustable (as described below) from 110° to 149°. Length of sauna can be set from 0 to 60 minutes. The time delay before start can be up to 24 hours. Any changes are remembered by the heater for your next bath. Should the heater power be lost then restored, the settings will return to their default values.

STARTING SAUNA SESSION

Press the icon for the type of heat desired, the room temperature will be displayed on the control. The heat will turn on and begin heating the room to current set points. Once the set temperature is reached inside the room, the control will turn the heat source on and off again as needed to maintain the desired temperature. At the end of the selected time (60 minutes maximum), the control will turn itself off and the control display will turn off. The system can be cycled off and back on if more time is desired.

SETTING THE TIME AND TEMPERATURE



To set the sauna length time for either Traditional or IR, first choose the heat system and press the  icon. Press the "+" or "-" icons to increase or decrease time for desired setting. The maximum of time is 60 minutes.

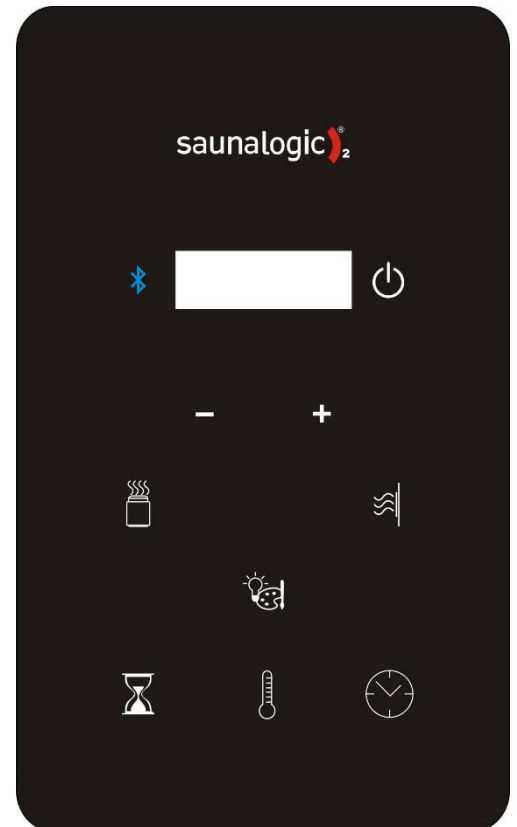
To set the temperature, press the  and next "+" or "-" icons to increase or decrease temperature for desired setting. The maximum temperature for Traditional Sauna is 194°F (90°C) and the maximum temperature for IR Sauna is 149°F (65°C).

Note: Typical Traditional sauna bathing set-point temperature is 150°F to 165°F on the control and IR Sauna bathing temperature is 115°F to 125°F.



Starting ambient temperature below 70F will cause the IR system to heat slower, which may result in less effective performance.

PRE-SET DELAYED START

First choose the heating system desired, then press the  icon and delay time will appear in the display and will toggle between "dlay" and the amount of time remaining. The maximum of time is 24 hours. If no delay is desired, press  icon to toggle off the function.




Operating Instructions for Lighting

Press  icon to cycle through lighting options. Press and hold the  icon for 3 seconds to turn off the lights. Lights will turn off automatically 10 minutes after sauna cycle is completed.

- Color sequence – White – Red – Green – Blue – Yellow – Aqua – Purple – Rotation of Colors – Off

Choose the color of choice and then set lighting brightness. The brightness will be on display for 3 seconds. (Example L 25 for 25%) Press the “+” or “-” icon to increase or decrease the light setting. Setting options are 25, 50, 75, and 100% light output.

Audio Operation

- Press  icon to toggle On or Off the Bluetooth System.

Note: The control does not have to be active for Sound System to operate.

Pairing

- Refer to your mobile device to pair to the unit.
- The Room device name is TyloHelo Audio

Operation

- All operations are controlled by the mobile device
- Volume is controlled by the mobile device

WARNING

Apple will not warranty your Apple product if used at operating temperatures of 32°F or below and 95°F and above. The recommended operating temperature is 32°F to 95°F to fall into the warranty. Check with any other device manufactures for operation temperatures before using the device in the Sauna/IR Room.

USER MAINTENANCE INSTRUCTIONS

Room Instructions for Cleaning:

Perspiration and dirt may absorb into the wood, so periodic cleaning is needed. Scrubbing the benches and floorboards with a stiff brush and mild detergent is normally sufficient. Light sanding is another option.

TROUBLESHOOTING

Error Codes on controls

Sn = Means the sensor is not connected to the CB box. Check the connections between sensor and box

HL = Means the Hight Limit switch in sauna heater is not connected to the CB box. Check the connections between heater and box.

JP = Means a jumper CN 6 is missing from the Main PCA in CB box.

For troubleshooting or service questions call 1-888-780-4427 and ask to speak with the Technical Support Department.

Prior to calling, please have the Model, Type Number, and Serial Number from room available. You may also email us at techsupport@tyloheloinc.com.