

IS-IR SAUNA ROUGH-IN-

Infrared saunas are much more time consuming to install as compared to traditional saunas. Each emitter needs to be wired individually and spaced according to room size and bench configuration. Wiring is often done as sauna is being built. Along with this rough in guide, you will be provided with up to three manuals: One for the cedar sauna material installation and two for the infrared. Please read through all carefully, before starting.

Wall emitters are mounted vertically. Size: 27" or 15" wide x 39" high
 (For combination sauna, there must be 5" of clearance above the traditional sauna heater and the bottom of any IR frame.

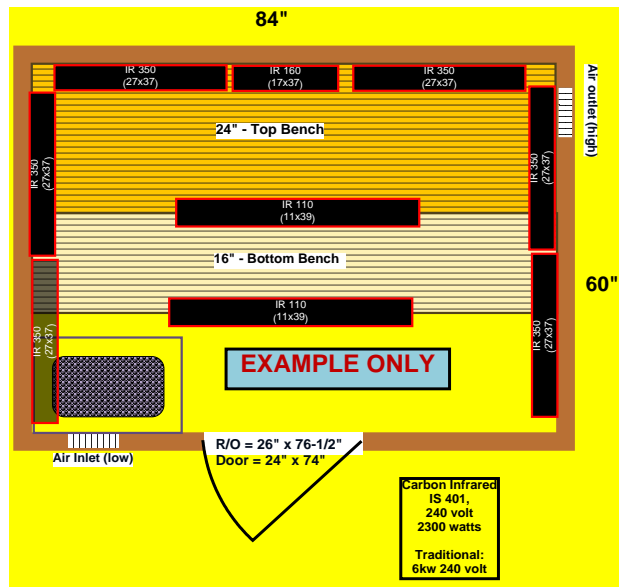


DIAGRAM 2

MODEL	IR kW	Sauna kW	* Optional Traditional Heater	MINIMUM ROOM			MAXIMUM ROOM			PHASE	VAC	IR AMPS	WIRE SIZE		
				Floor Area	Ceiling Height	Volume Cu.Ft.	Ceiling Height	Volume Cu.Ft.	Power Supply to CB PK-5				CB PK-5 to IR Heating Panels	CB PK-5 to Traditional Heater	
IS-201/202	1.6	3.0	Junior 3.0	12 sq. ft.	73 1/2"	100	96"	150	1	240	6.5	2 #12AWG+GR	2 #14AWG+GR	2 #12AWG+GR	
IS-301/302	2.0	4.5	Viki 4.5	16 sq. ft.	73 1/2"	135	96"	200	1	240	8.3	2 #10AWG+GR	2 #14AWG+GR	2 #10AWG+GR	
IS-401/402	2.3	6.0	Viki 6.0	21 sq. ft.	73 1/2"	175	96"	300	1	240	9.6	2 #10AWG+GR	2 #14AWG+GR	2 #10AWG+GR	
IS-601/602	3.0	8.0	Viki 8.0	31 sq. ft.	73 1/2"	250	96"	425	1	240	12.3	2 #8AWG+GR	2 #14AWG+GR	2 #8AWG+GR	

* Denotes an optional traditional sauna heater may be added to the system. Refer to Installation and Operation manual for installation questions.

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

MODEL	IR-325-240	IR-160-240	IR-110-240
IS-201	4	1	1
IS-301	5	1	2
IS-401	6	1	2
IS-601	8	1	2

MODEL	IR-325-240	IR-160-240	IR-110-240
IS-202	3	3	1
IS-302	4	3	2
IS-402	5	3	2
IS-602	7	3	2

SUPPLY WIRE/BREAKER (not Included)

amp, 240 volt breaker (Non GFI)

##/2 from panel to CB PK contactor /relay box

##/2 from CB PK contactor /relay box to traditional heater

14/2 wire for IR emitters. From CB PK box to nearest emitter. Then daisy chain to all other emitters.

NOTE: If trying to maintain low EMF, use BX armored cable rather than romex.

CONTROL

Install outside sauna

Connect low voltage cable from the SaunaLogic IS control to JT1 of the circuit board in the CB PK Box.

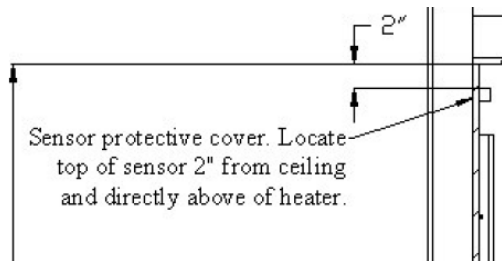
SENSOR INSTALLATION

Install five-conductor cable provided for the sensor to the CB PK Box. Refer to Diagram 1 for location.

Connect sensor cable to JT2 of the circuit board in the CB PK Box.

Feed the 17 ft "low voltage" sensor wire from the sensor location to the CB PK box location. Sensor wire must be routed completely separate (as per low voltage electrical wiring codes) from any wiring carrying over 50 volts. It may be necessary to drill holes to string the wire through the studs or ceiling joists.

Connect wires to JT2 on the circuit board inside the CB PK box



LIGHT PACKAGE (OPTIONAL)

The lighting package consists of 3 color therapy lights, 2 interior lights, 3 exterior lights, and the cables to connect the light assemblies to the CB PK box. The cables provided are 176" from CB PK box to the first light fixture. Then the cable is 60" between the fixtures. All cable lengths are similar depending on the number of fixtures.

Connect the color therapy light cable to Color Lamp of the circuit board in the CB PK Box.

Connect the cable from Interior lights to the connector labels Interior Lights.

Connect the cable from exterior lights to the connector labels Exterior Lights

Connect the high limit sensor cable to JT13 of the circuit board in the CB PK Box. (Traditional sauna heater is optional).

Light Fixture Installation: Cut 2 3/4" holes in tongue and groove boards for light fixtures. Ensure the lighting cables reach the hole locations

TRADITIONAL SAUNA HEATER WIRING TRADITIONAL SAUNA HEATER (If ordered).

Install wire from the CB PK box to the location of the bottom of the sauna heater.

A two conductor cable is provided with the sauna heater for the high limit safety switch. Pre install wire in the wall. The traditional sauna system will not work if the wires and switch are not connected.

Note: Run supply wire from CB PK panel to traditional heater - 1' above floor.

IR EMITTER INSTALLATION

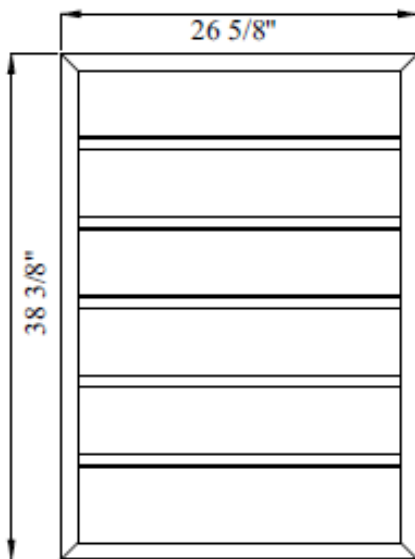
Emitters come with 54" wire whip. Drill hole for whip. Feed whip or guide string from hole to one gang box mounted close to floor as shown in installation guide.

Each IR emitter to be connected to an electrical junction box. All IR emitters should be grounded. Use 14-2 AWG wire w/ground from the CB PK Box to closest IR emitter. Daisy chain the wire from the first IR emitter to box for next and continue for each IR emitter connection.

Note: If trying to maintain low EMF, use BX armored cable rather than romex.

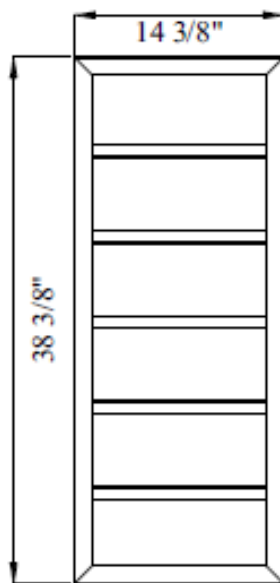
IR assembly can be installed above the traditional sauna heater. There has to be 5" of clearance above the traditional sauna heater and the bottom of the IR assembly. See Diagram 1 for specific spacing requirements.

Surface Mounted IR Heating Assembly Information



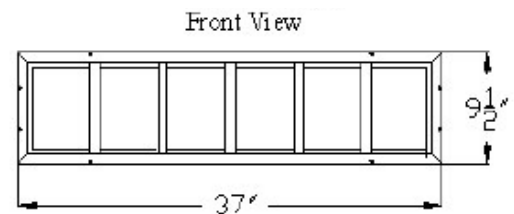
IR-325-240-S

Quantity: #



IR-160-240-S

Quantity: #



Quantity: # (bench riser)



Back view of whip

Rough In Emitter Wire

There is a 54" whip centered one emitter has, 1-1/2" from bottom edge.

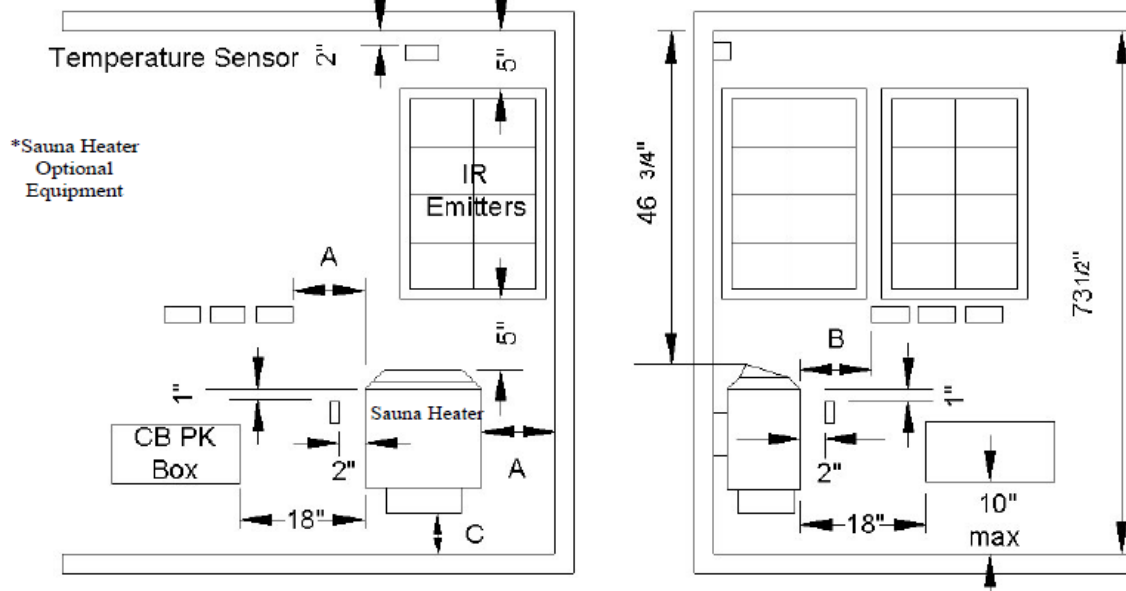
Walls: Rough in hole for wire whip at 38-1/2" above finished floor (aff) (based top 36" top bench)

Over optional Viki traditional heater: Requires 5" Clearance above heater. Rough in for wire at 41" aff

Bench riser (1or2): locate one-gang electrical box, so that whip at one end will reach.

DIAGRAM 1

MINIMUM DISTANCE TO COMBUSTIBLE MATERIAL



Recheck your distances from the heater to combustibles to be sure you have the proper minimum distances.

⚠ OBSERVING MINIMUM DISTANCES IS REQUIRED TO REDUCE FIRE HAZARD

ROOM ROUGH IN FOR SURFACE MOUNT IR EMITTERS:

Build the frame the room with standard building materials and framing design.

Install single gang outlets below the IR Emitters. Rough in all lighting wires, IR emitters wires, Sensor wire, Control wires before insulating the room and applying foil vapor barrier.

Tongue and groove the ceiling. While installing the tongue and groove on the ceiling continue to cut in the light holes and install and connect the lights as the ceiling is installed. Access will be difficult after ceiling is completed.

Apply tongue and groove wood on the walls (vertical or horizontal depending desires installation). Cut wood around the electrical access boxes. Cut an electrical access behind the IR Emitter to feed the wire from the emitter into the electrical box. (Pictures do not show the cut out behind IR emitter.)

Remove the cover from Surface Mount IR Emitter by holding the wire on the back of emitter and pull the cover away to the front. It will release a mechanical lock. Install the wire from the IR emitter into the wall and into the electrical box below. Install the extra wire in the wall and then attach IR emitter panel to the wood wall with 6 screws (3 on each side).

Reinstall the cover by placing the top of cover over the IR panel and pull down. It will catch two notches at the top of the wall and then push the lower part of the cover against the IR panel and the cover will "click" into place. The cover will be flush all the way around the IR emitter for clean finished look.

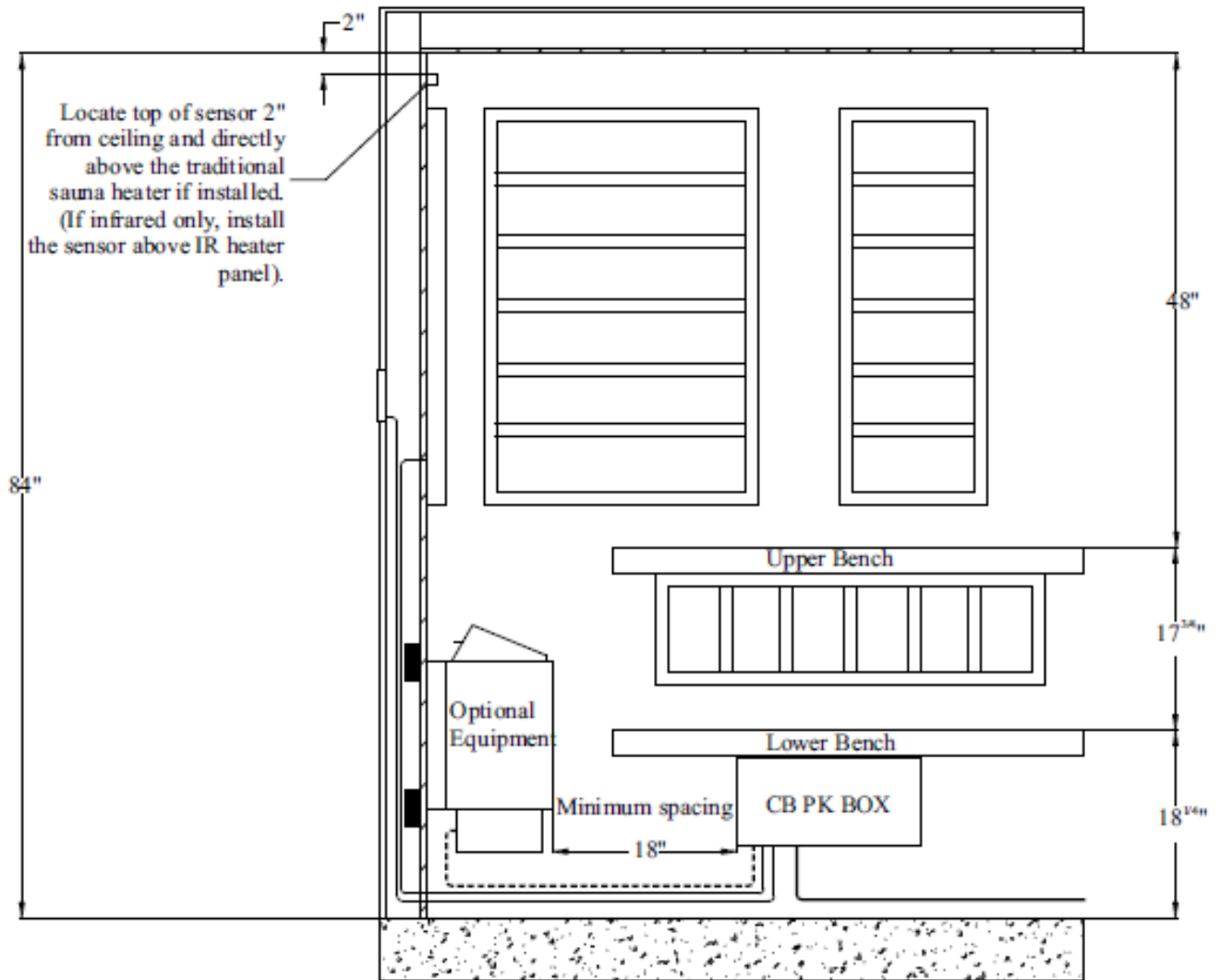
Splice in the electrical panels into the electrical box and cover with metal single gang blank plate.

Continue this process to complete the room.



Typical IS Installation with a traditional sauna heater

Refer to Diagram 1 for minimum spacing requirements.



CB PK Box can be outside of the sauna room or installed inside sauna room.

DIAGRAM 4

DIAGRAM 5

SaunaLogic IS Control

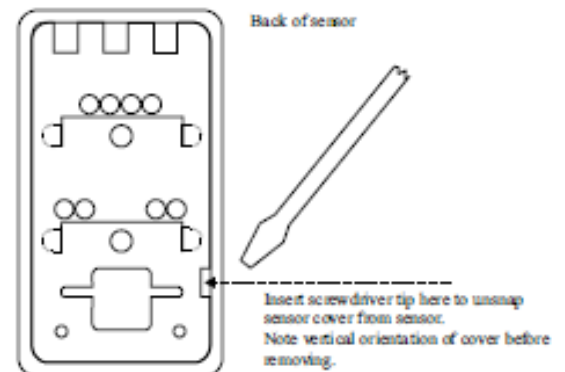


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WIRING DIAGRAM: CONTROL AND HEATER MODELS Viki 4.5, 6.0 & 8.0 (1720-45-02, 1720-60-02, 1720-80-02) SaunaLogic IS and CB PK Box

