



Owner's/Operator's Manual

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

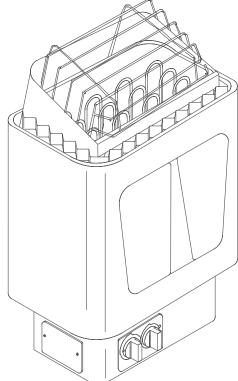
IMPORTANT! This manual must be left with owner, manager or operator of Sauna after it is used by electrician!

MODEL	MODEL	MODEL
KIP-30-B1	KIP-30-W1	KIP-30-W3
KIP-45-B1	KIP-45-W1	KIP-45-W3
KIP-60-B1	KIP-60-W1	KIP-60-W3
KIP-80-B1	KIP-80-W1	KIP-80-W3
KIP-30-B3		

CONTROLS

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

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

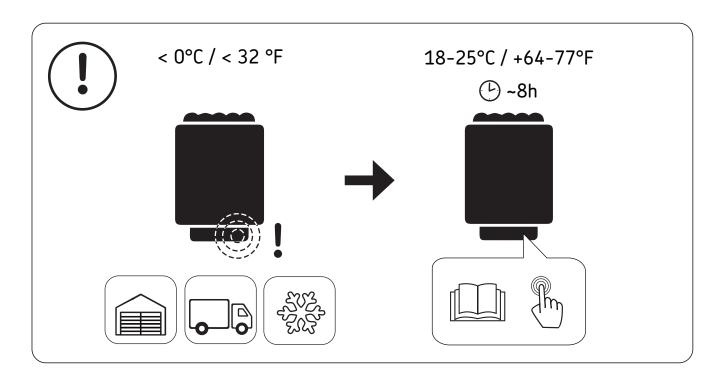




Sauna Specialiste Inc. 1085 Desserte Nord Autoroute 440 Ouest Laval, QC H7L 3W3 Toll free: 1 855-689-2422

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

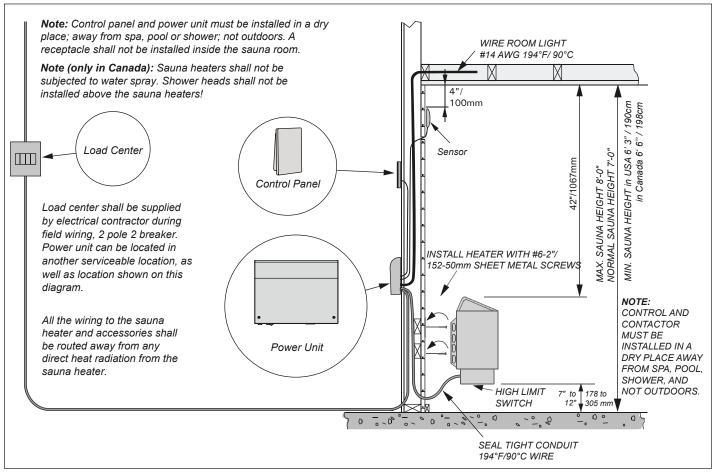
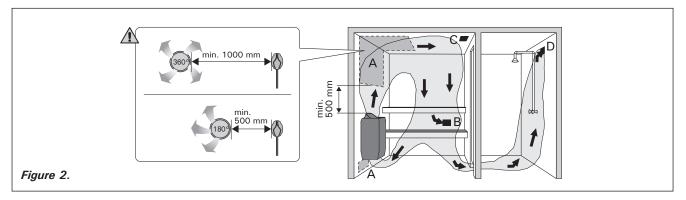


Figure 1. Digital Sauna Control CX170-U1 and CX170-U3

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.

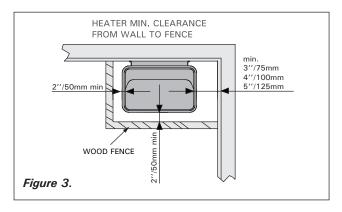
THE SAUNA ROOM SHALL BE PROVIDED WITH PROPER VENTILATION WALL-MOUNTED HEATERS-MINIMUM CLEARANCES, MIN-MAX SPACE, ADEQUATE VENTILATION

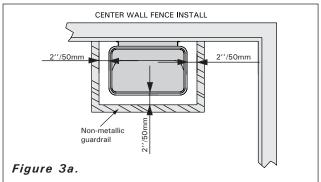


SAUNA ROOM VENTILATION

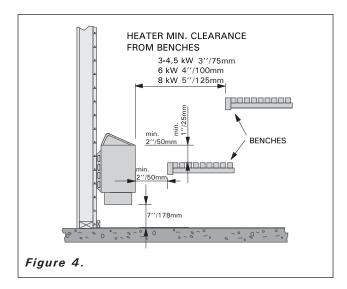
The air in the sauna room should change six times per hour. Figure 2 illustrates different sauna room ventilation options.

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.



MODEL	INPUT	MIN. HEIGHT	FLOOR .			MIN. SPACING FROM ADJACENT SURFACES,	
	kW	INCHES/MM	Min. Sq.Ft/ m²	Max. Sq.Ft/ m²	Min. Cu.Ft/ m³	Max. Cu.Ft/ m³	INCHES/MM
KIP-30-B/W	3.0	USA:	10/1	20/2	84/2,4	130/3,7	3/75
KIP-45-B/W	4.5	75/1900	16/1,5	30/2,8	100/2,8	210/6	3/75
KIP-60-B/W	6.0	CANADA:	28/2,6	40/3,7	170/4,8	300/8,5	4/100
KIP-80-B/W	8.0	78/1980	40/3,7	65/6	250/7,1	425/12	5/125

Table 1.

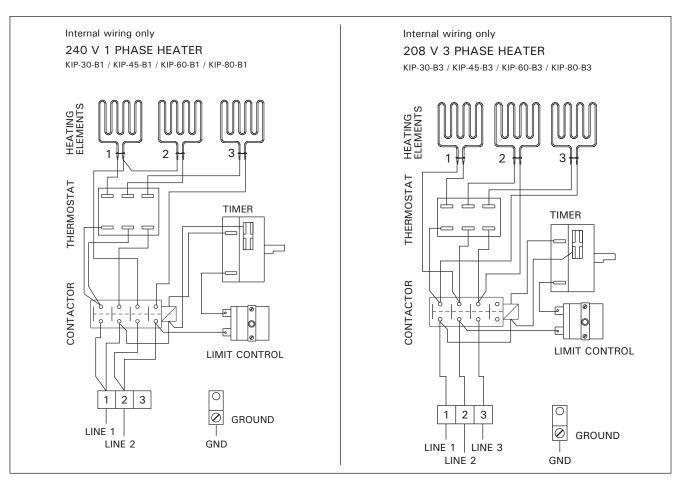


Figure 5.

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	

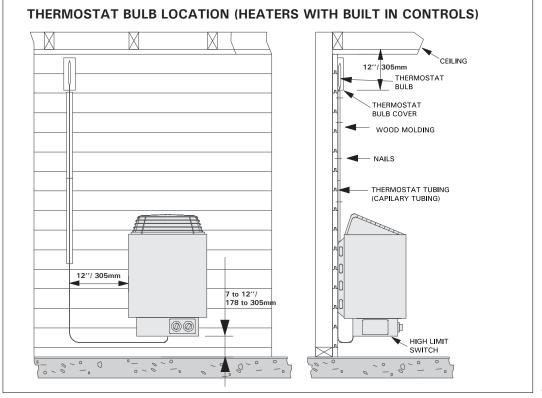


Figure 5a.

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.

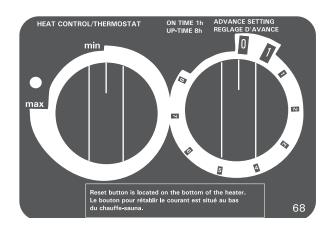
SAUNA TIMERS

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.

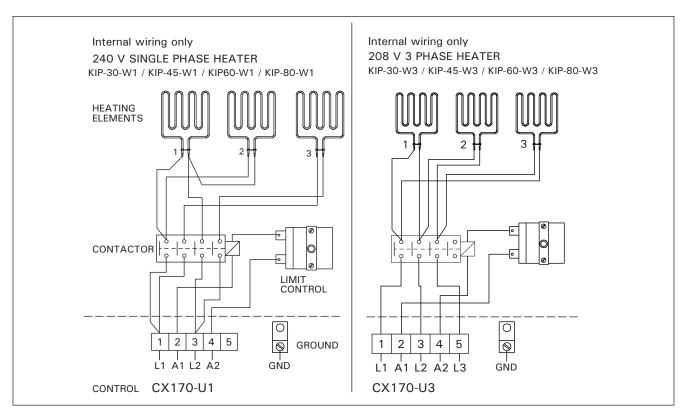


Figure 6. Wiring diagram

SAUNA HEA	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!

Use only the stones which are purchased from an official harvia distributor. 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.

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

- 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.)
- 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
- 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.
- 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):

- 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.
- Check for proper wire size, amp size, and proper wiring (according to diagrams and information) also necessary copper wiring.
- 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!
- Open junction box to make sure wires are tightly secured with no loose connections. Heater wire and all connecting wires should be copper.
- 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" \times 2" (25 \times 50 mm) or 2" \times 2" (25 \times 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

- Use only clean water on Sauna stones. Do not use spa, pool, or well water as it will destroy your heater.
- 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.
- 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 prefect 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.

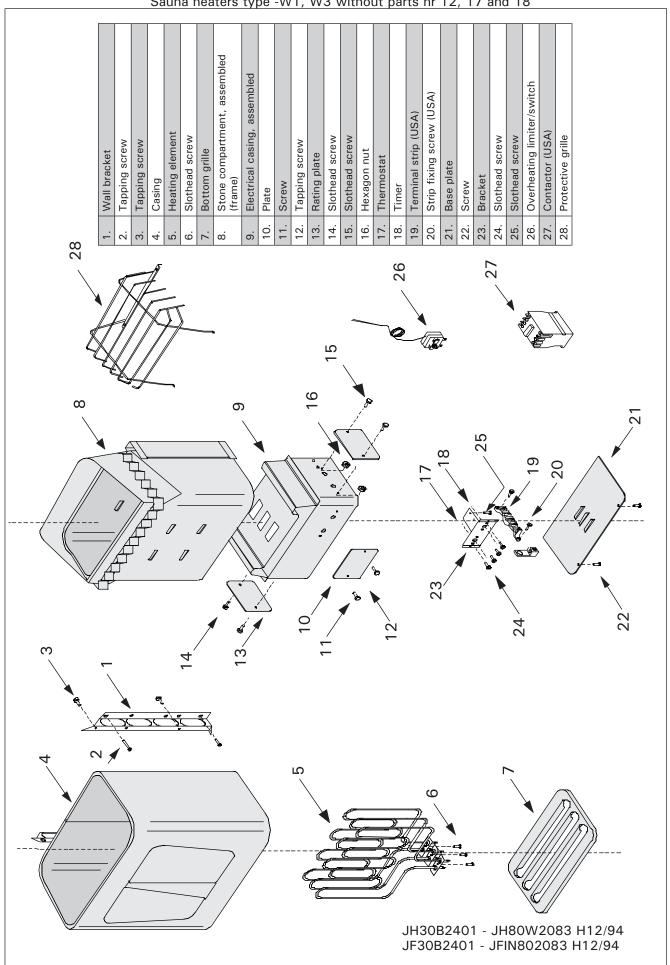
- 8. In new construction, a floor drain should also be provided, especially in commercial Saunas for sanitary cleaning and maintenance.
- Seal wood around glass in door—inside and outside—with Harvia sauna sealer to prevent warpage.
- 10. When Sauna wood becomes stained from perspiration, the wood may 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



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.

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	IARVIA SAUNA HEATER		
DATE OF PURCHASE ORIGINAL OWNER ADDRESS PURCHASED FROM ELECTRICAL CONTRACTOR COMPANY NAME AND ADDRESS MUST SIGN HERE ELECTRICIAN'S LICENSE NUMBER OR TAX NUMBER	-		
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PURCHASED FROM ELECTRICAL CONTRACTOR COMPANY NAME AND ADDRESS MUST SIGN HERE ELECTRICIAN'S LICENSE NUMBER OR TAX NUMBER	RIGINAL OWNER		
ELECTRICAL CONTRACTOR COMPANY NAME AND ADDRESS MUST SIGN HERE ELECTRICIAN'S LICENSE NUMBER OR TAX NUMBER	DDRESS		
ELECTRICAL CONTRACTOR COMPANY NAME AND ADDRESS MUST SIGN HERE ELECTRICIAN'S LICENSE NUMBER OR TAX NUMBER	-		
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ELECTRICAL CONTRACTOR COMPANY NAME AND ADDRESS MUST SIGN HERE ELECTRICIAN'S LICENSE NUMBER OR TAX NUMBER	URCHASED FROM		
COMPANY NAME AND ADDRESS	-		
COMPANY NAME AND ADDRESS			
COMPANY NAME AND ADDRESS MUST SIGN HERE ELECTRICIAN'S LICENSE NUMBER OR TAX NUMBER	LECTRICAL CONTRACTOR		
ELECTRICIAN'S LICENSE NUMBER OR TAX NUMBER			
	IUST SIGN HERE		
DATE OF SUSCEPTION	LECTRICIAN'S LICENSE NUMI	BER OR TAX NUMBER	
DATE OF ELECTRICAL	ATE OF ELECTRICAL		
WIRING & HOOKUP	VIRING & HOOKUP		