

INSTALLATION INSTRUCTIONS MODELS JR-1 & JR-2 240/208 VOLTS 1 PHASE





QUICK TOUCH TIMER CONTROL

(PACKAGED INSIDE ELECTRICAL BOX)



JR-1 OR JR-2 STEAM GENERATOR



WATER

INLET



ONE 1/2" STEAM NOZZLE TD* AND ESCUTCHEON * Tear Drop Essential Oil Reservoir

USE ONLY RELAX-A-MIST® FACTORY SUPPLIED PARTS

1. GENERAL INFORMATION (See Steam Generator Selection) STEAM GENERATOR LOCATION

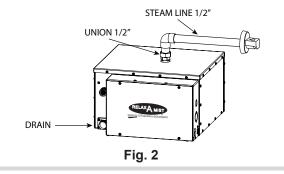
The steam generator should be located in a ventilated area outside of, but within 20 feet of the shower or steam room, where the steam pipe can be installed without the possibility of a steam trap. The steam generator may be placed under the floor, in a closet, or any convenient location where it WILL BE LEVEL, DRY, AND WILL NOT FREEZE in the winter. The steam generator MUST be easily accessible should service be required in the future. INSTALL THE STEAM GENERATOR WITH THE COPPER STEAM PIPE COMING OUT OF THE TOP OF THE APPLIANCE AND THE ELECTRICAL BOX FACING THE ACCESS! See **Fig. 1**. The Relax-A-Mist[®] steam nozzle installation uses standard construction materials, tools and methods. Depending on wall thickness, a custom sized nipple may need to be fabricated by the plumber or purchased from a local hardware store. It is important to install the steam nozzle in an area where a person cannot be burned from the hot steam exiting the nozzle. The steam nozzle was designed to be installed on a flat surface. During the final installation, the steam nozzle supplied MUST be used. See Steam Piping to Bath or Shower, CAUTION 1-3, and Fig. 2.



Fig. 1

STEAM PIPING AND STEAM NOZZLE (To and in the steam room)

The steam pipe must be a minimum of 1/2 inch I.D. rigid copper. Installing the steam pipe using the most direct or shortest route (WITHOUT FORMING A STEAM TRAP) and with the fewest number of elbows will, in most cases, maintain a lower pressure (less than 1 lb) in the boiling tank than a longer route with many elbows.



CAUTION: There is to be NO RESTRICTION in the STEAM PIPE BETWEEN the STEAM GENERATOR and the STEAM NOZZLE that would in any way cause PRESSURE to build in the STEAM GENERATOR. INSTALL the STEAM NOZZLE 12 INCHES above the finished floor, in a LOCATION where the STEAM WILL NOT BURN anyone.

TIMER SWITCH (Steam Generator Control)

The Quick Touch Timer can be located inside or outside the steam room. If using the optional Time and Temperature Control, refer to that control's installation instructions now. Relax-A-Mist[®] timer switches are not precision timing devices. See **CAUTION 11**.

DRAIN VALVE OPTION (Ask Dealer For Details)

A 3/4 inch copper, female adapter (located below the water supply connection), can be plumbed to a drain with either a manual shut-off or an automatic drain valve installed at the steam generator (purchased separately). See **Fig. 2**.

2. ROUGH-IN

WATER SUPPLY (According to Local Plumbing Code)

The water supply pipe should be equipped with a shut-off that is accessible and close to the steam generator. Installation of a water hammer arrester (water bumper) is recommended. To maintain a proper water level in the generator, the water supply should have a minimum of 20 lbs pressure. If the water supply contains impurities that could cause scale build-up or corrode the steam generator, install appropriate water treatment. See **CAUTION 4** and **Warranty Policy**. See diagrams on **Page 6**.

DRAIN VALVE OPTION (According to Local Plumbing Code)

Installing a drain line is optional; the steam generator is supplied with a 3/4 inch brass plug installed in the drain pipe. If installing a drain line, a 3/4 inch drain valve and rigid copper pipe must be installed from the steam generator location to a drain. Water must be able to drain from all sections of the drain line at all times. Ask dealer for details.

ELECTRICAL - WATTS, WIRE, AND FUSE SIZES (According to Local Electrical Code - Use Copper Wire Only -Must be Installed by a Qualified Electrician)

Check to ensure that the supply voltage (either 208V or 240V) is compatible with the voltage listed on the steam generator identification label (below water supply). The fuses or circuit breaker must be of adequate size to carry the necessary amperage to operate the steam generator.

STEAM GENERATOR:	JR-1	JR-2	
WATTS	3,000	4,500	
Hz	60	60	
Phase	1	1	
208 VOLTS			
Fuse/Breaker Size	20 Amp	30 Amp	
Copper Wire - Supply	#12 AWG	#10 AWG	
Copper Wire - Switch	#22 AWG	#22 AWG	
240 VOLTS			
Fuse/Breaker Size	20 Amp	30Amp	
Copper Wire - Supply	#12 AWG	#10 AWG	
Copper Wire - Switch	#22 AWG	#22 AWG	
* Must use supply wires suitable	for 90°C		

* Must use supply wires suitable for 90°C

* Wire size may differ depending on temperature rating; consult with certified Electrician.

Select a convenient location in the steam room, within 20 feet of the steam generator (5 feet up from the finished floor, **away from the area above the steam nozzle**), to install the Quick Touch Timer (found in the appliance electrical box), and cord set packaged with steam unit. Cut a 7/8 inch hole in the wall material and pass the female end of the cord set through the wall for final installation **OR**, the Time and Temperature Control with remote may be installed (**purchased separately**). ASK DEALER FOR DETAILS.

There is one class 1, 2 conductor copper wire and ground power cable, and one, factory supplied, class 2 25 foot control wire to be run to the steam generator: a) Run a copper power supply cable, 2 wire and ground, of adequate gauge to carry the necessary amperage from the fuse or circuit breaker to the steam generator location.

 b) Run the factory supplied 25 foot cord set from the steam generator location to the Timer Control location. Leave sufficient length at each end of cord set for the final installation connections. See CAUTION 8-10.

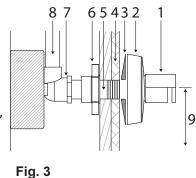
THE ELECTRICAL "**SUPPLY**" FOR THE STEAM GENERATOR **CANNOT** BE SWITCHED DIRECTLY BY THE TIMER CONTROL SUPPLIED WITH THE STEAM GENERATOR. **Use Copper Supply Wire Only**. The copper power supply cable must run directly from the fuse or circuit breaker to the steam generator. The factory supplied cord set must be run directly from the steam generator to the Timer Control. The Timer Control activates a contactor in the steam generator, through the class 2 voltage circuitry.

STEAM PIPING TO BATH OR SHOWER

The steam pipe must be a minimum of 1/2 inch I.D. type "L" rigid copper. Install rigid copper pipe (maximum length of 25 feet), from the steam generator to where it will enter the steam bath area, in a location where the steam will not burn anyone. Insulate the steam pipe for maximum efficiency. WARNING: STEAM NOZZLE IS HOT AND CAN CAUSE SEVERE BURNS. LIVE STEAM IS 212 °F (100 °C).

The 1/2 inch end of the steam pipe at the steam room should have a female pipe thread fitting that is attached to something solid, (example: a "wing-back 90 elbow"). IMPORTANT - Ensure the elbow is perpendicular to the finished wall on two axis. Check its orientation by threading in a nipple that extends past the studs and out beyond the finished wall. This way during the final installation of the steam nozzle, it will be square to the finished wall. Be sure the wing-back 90 elbow backing can withstand the force of tightening the nipple and steam nozzle to the correct torgue required to prevent leaks. For steam nozzle location purposes during rough-in, install a 1/2 inch iron pipe nipple into the female fitting, hand tight, between 2 and 2-1/2 turns (the final tightening will be 4 turns), so it will protrude through the wall into the steam room. After the finished walls are in place, the iron nipple will be replaced by a brass nipple of the appropriate length. See Final Installation Steam Piping and Fig. 3.

- 1- Steam nozzle
- 2 Escutcheon
- 3 Sealer (silicone)
- 4 Finished wall
- 5 1/2" brass nipple
- 6 1/2" C x FIP adapter
- 7 1/2" C x C wing-back
- elbow
- 8 1/2" copper pipe type "L" 9 - 12" from steam pipe to
 - steam room floor.



WARNING: STEAM NOZZLE IS HOT AND CAN CAUSE SEVERE BURNS.

In a shower or steam room, the centre of the brass nipple and steam nozzle must be 12 inches above the finished floor and in a location away from the user's pathways, where the steam will not burn anyone, preferably on the same wall as the shower controls. See **Fig. 1**.

If the steam nozzle is installed too low or too close to a corner, the steam will strike the floor or wall (may cause damage to tile grout) and condense into water before it can heat and steam the room. Installing the steam nozzle correctly, in the lower part of the room, ensures a more even distribution of the heat and steam. It is not recommended to place the steam nozzle under a bench, as there is a distinct possibility that someone sitting on the bench could inadvertently put their feet underneath it and be burned. When the steam nozzle is installed under a bench, it is sometimes impossible for the heat and the steam to circulate throughout the room.

Care MUST be taken to AVOID A STEAM TRAP! Water must be able to drain from all sections of the

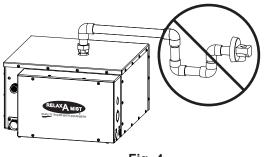
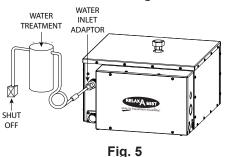


Fig. 4

steam pipe at all times. See CAUTION 1-2 and Fig. 4. 3. FINAL INSTALLATION

WATER SUPPLY (According to Local Plumbing Code)

The water inlet connection on the steam generator is a male garden thread. A swivel garden hose to 3/8 inch tubing adapter is supplied for the installer's connection. The swivel adapter will be a union. Install a shut-off on the water supply and reduce it to use 3/8 inch O.D. soft copper tubing. Use 3/8 inch O.D. soft copper tubing between the shut-off and the swivel adapter at the steam generator. Form a "loop" in the 3/8 inch soft copper tubing to ensure the boiler is being installed level. See **Fig. 5**.

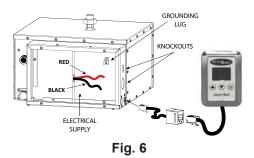


DRAIN VALVE OPTION (According to Local Plumbing Code) Install the shut-off (purchased separately), within 1 foot of the steam unit, between the 3/4 inch copper female adapter and a 3/4 inch union attached to the drain line. The drain valve must be in the closed position while the steam generator is in operation. Ask dealer for details.

ELECTRICAL (According to Local Electrical Code)

Check to ensure that the supply voltage (either 208V or 240V) is compatible with the voltage listed on the steam generator identification label (below the water supply). Pull the roughed-in copper supply cable (2 wires and ground) into the steam generator electrical connection box using the knock-outs; DO NOT drill holes in the electrical box. Proceed with "a & b". Move the control cord set to the outside right of the electrical connection box and proceed with "c & d".

- a) Connect the copper power supply ground wire to the Relax-A-Mist[®] grounding lug inside the appliance's electrical connection box; use provided knockouts.
- b) Connect the two copper wires from the power supply, one to each of the red and black Relax-A-Mist[®] wires inside the electrical box. See Fig. 6.
- c) On the side panel of the steam generator electrical box, remove the protective label marked "Remove To Insert Modular Connector", from the rear modular female plug. Front plug is for optional Automatic Drain.



Note: At this point, the control, cord set and steam generator functions must be tested. Before continuing with the final electrical installation, proceed to Timer Pretest. After the Timer Pretest has succesfully been completed, continue to step d). • DO NOT CUT FACTORY WIRING TO INSTALL TIMER SWITCH

- DO NOT FORCE CONNECTIONS
- SEE CAUTION 6-12
- DO NOT ADHERE QUICK TOUCH TIMER TO WALL UNTIL TIMER PRETEST HAS SUCCESSFULLY BEEN COMPLETED.

TIMER PRETEST

The following instructions are for the Quick Touch Timer. If you have purchased the Time and Temperature Control with remote or an alternate control, refer to their instructions now.

With the water and power supply turned on, insert the male plug from the Quick Touch Timer wire directly into the steam generator female connector so the retaining tab locks in place with an audible "click". See electrical diagram on Page 7. The timer display will illuminate two horizontal bars, indicating the timer is connected and has power. If the timer display does not illuminate horizontal bars, check all electrical connections and correct. If problem persists, call 1-800-Y-U-STEAM (1-800-987-8326) Monday to Friday, 8:00am to 4:30pm PST or e-mail technicalsupport@relax-a-mist.com for assistance.

THE STEAM GENERATOR MUST BE POSITIONED WITH

THE STEAM PIPE COMING OUT OF THE TOP OF THE UNIT.

Using the 1/2 inch union provided and 2 wrenches, connect

the roughed-in steam pipe to the generator steam pipe. Where the 1/2 inch iron pipe nipple sticks out from the

finished wall in the shower, measure one inch along the nipple from the wall and make a mark. Remove the 1/2 inch iron nipple used during the rough-in. Measure the iron nipples

from the threads to the mark and use a brass nipple of that

length to install the steam nozzle and escutcheon tight to

the wall. The steam nozzle must be installed with the "tear

drop" reservoir facing up and the "steam slot" pointing down.

Once the appropriate size nipple has been selected, apply

Teflon tape or thread sealant on both ends of the nipple.

Apply silicone around the back of the brass pipe

adapter to seal between the adapter and the tile.

Wipe away any excess silicone from around the steam nozzle.

Note: Masking the nozzle and wall with tape may help to avoid

In a shower or steam room where the steam line has been

roughed in according to the instructions above, the installed

steam nozzle should be against the wall and there should be

12 inches from the steam nozzle opening to the finished floor.

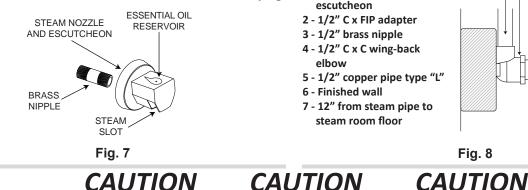
getting excess silicone on the nozzle and tile.

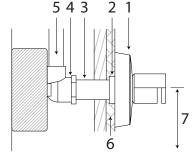
STEAM PIPING

See Fig. 3, Fig. 7, and Fig. 8.

1- Steam nozzle and

- ii) When the display illuminates the horizontal bars, press the "on/off" button; the display will show 30 minutes. Listen to hear the generator filling with water and the audible "click" of the contactor closing. When the water valve finishes filling the unit, arrow the timer control down to zero. When zero is reached, the horizontal bars will reappear and the steam unit will turn off.
- iii) Remove the plastic cover from the timer cord set and insert the male plug, retaining tab to bottom, into the female plug on the steam generator. At the timer control location, remove the protective label from the female connector on the cord set. Insert the male plug from the Quick Touch Timer wire into the female connector. When the display illuminates the horizontal bars, press the "on/off" button; the display will show 30 minutes. When steam enters the room, arrow the timer control down to zero. When zero is reached, the horizontal bars will reappear and the steam unit will turn off.
- iv) This successfully completes the **Timer Pretest**; turn off the water and power supply and proceed to step **d**).
- d) If the Timer Pretest has been successfully completed, the Timer Control may now be applied to a clean, flat, dry, finished surface. Peel off the protective film from the back of the timer. Push the excess cord into the wall cavity. Firmly press the Quick Touch Timer onto the wall. If the wall surface is uneven, apply a silicone sealant to seal around the timer switch. Continue to Steam Piping.





 a. Under NO circumstances is the steam line from the steam generator to be restricted or reduced to less than 1/2 inch inside diameter, or contain a steam trap. Recommended steam line distance: maximum 25 feet.

- **b.** Under NO circumstance is there to be a valve or other obstruction in the steam line.
- **2.** Water MUST be able to drain from ALL sections of the steam line at all times.
- 3. Use only the steam nozzle that is supplied with the steam generator. For safety reasons, it MUST be used.
- 4. Adequately treat impure water or the Warranty may become null and void.
- 5. The steam generator MUST be positioned so that THE STEAM LINE COMES OUT OF THE TOP OF THE APPLIANCE.
- 6. Use only the factory modular cord set supplied with appliance. Any substitute connector or cord set may damage or will not operate the appliance and will void the Warranty.
- 7. Cutting or tampering with the internal wiring or cord sets will void the Warranty.
- 8. DO NOT install the Timer Control above the steam nozzle. Place away from area above the steam nozzle.
- 9. DO NOT pull on the cord set plugs during installation.
- **10.** Check orientation of female and male low voltage connectors to ensure parts are inserted in the correct position.
- 11. DO NOT adhere the Timer Control to the wall until the Timer Pretest procedure has been successfully completed.
- 12. Installations are to be performed by a qualified Plumber and Electrician, in accordance with local plumbing and electrical codes.
- **13.** Steam is hot and can cause severe burns. Be aware of the steam nozzle(s) and the hot steam exiting them.
- **14.** Do not pressurize steam generator or use steam gnerator to pressure test steam line piping.

1-800-Y-U-STEAM (1-800-987-8326)

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Relax-A-Mist® Steam Generator Start Up

The following instructions are for the Quick Touch Timer. If you have installed the Time & Temperature Control with remote or an alternate control, refer to their start up instructions now.

- 1. To start, make sure the electrical supply and the water supply are both in the **OFF** position. Make sure that all plumbing and electrical connections are correct. Ensure the Flow Stabilizer (supplied with models JR1-4), has **NOT** been installed until after startup has been completed and only if required (see Flow Stabilizer instructions for more information).
- 2. If the drain option is used with a manual shut-off, ensure it is in the closed position.
- 3. Turn on the water supply to the steam generator. No water will enter the unit, as the electricity is still off at this point.
- 4. Turn on the electrical supply to the steam generator.
- 5. The display on the Quick Touch Timer has two horizontal bars illuminated. Press the "on/off" button on the Quick Touch Timer. The display will read "30" minutes. This will energize the contactor coil, which will sound an audible "click" as the contacts close and will in turn energize the water level sensing device. The water entering the appliance will be audible in the form of several short "spurts" of water and will stop when the operating water level has been achieved. If the unit shuts off before water fill is complete, press the "off" ("on/off") button on the Quick Touch Timer and then press the "on" ("on/off") button again to restart the cycle to complete the filling.

Caution: The steam nozzle is HOT. Warning: HOT Steam will burn you.

- 6. Within approximately 2 minutes from energizing the Relax-A-Mist[®], steam will be entering the steam room. Scalding Caution: When the generator is first turned on, there may be an initial burst of hot water from the steam nozzle until the steam line has come up to temperature. After the steam room has heated to a satisfactory temperature, adjust the timer display by pressing the "up" or "down" arrows to increase or decrease the length of time desired for a steam bath.
- 7. The installer must leave these instructions with the home owner and/or end user. Sit back, relax, and enjoy!

STEAM GENERATOR SELECTION

To select the correct size of steam generator, add the cubic footage of the shower with the appropriate adjustment to determine the calculated cubic footage:

1. Length x Width x Height = CUBIC FOOTAGE. Do not deduct for seating.

2. Add appropriate adjustment to account for heat loss through materials:

Acrylic or Fiberglass	No adjustment
Ceramic Tile, ¼" thick, or Cultured Marble	+ 30%
Ceramic Tile, ¾" thick or thicker	+ 100%
Glass or Glass Block wall	+ 15%
Natural Stone or 1/2" thick material	+ 100%
Steam lines over 25 feet (insulate heavily)	+ 25%
Cast Iron Tub	+ 25%
Exterior walls subject to freezing	+ 30%

3. Select the generator that corresponds to your calculated cubic footage:

Model Number	JR-1	JR-2	JR-3	JR-4
Maximum Calculated Cubic Feet	90	175	260	375

Example

A steam room is 3' wide x 5' long x 7' high with 3/8" ceramic tile.

3' x 5' x 7' = 105 cubic feet

- + 100% (for 3/8" thick ceramic tiles)
- = 210 calculated cubic feet

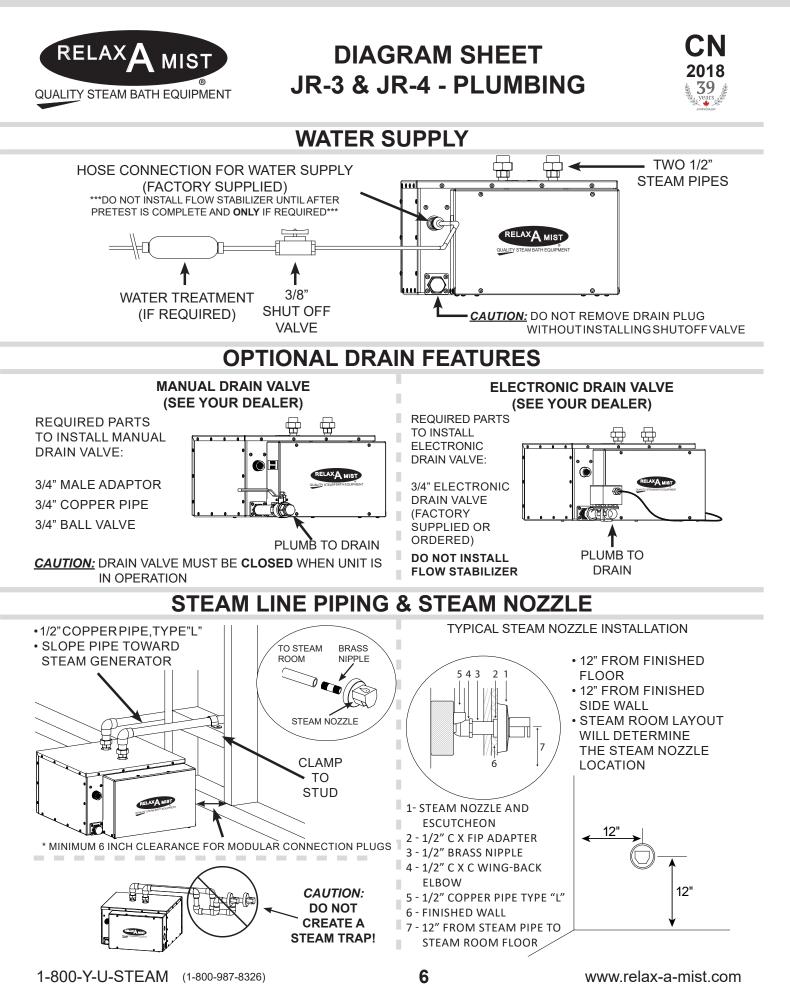
For a room this size, we would recommend our model **JR-3** for rooms up to 260 calculated cubic feet.

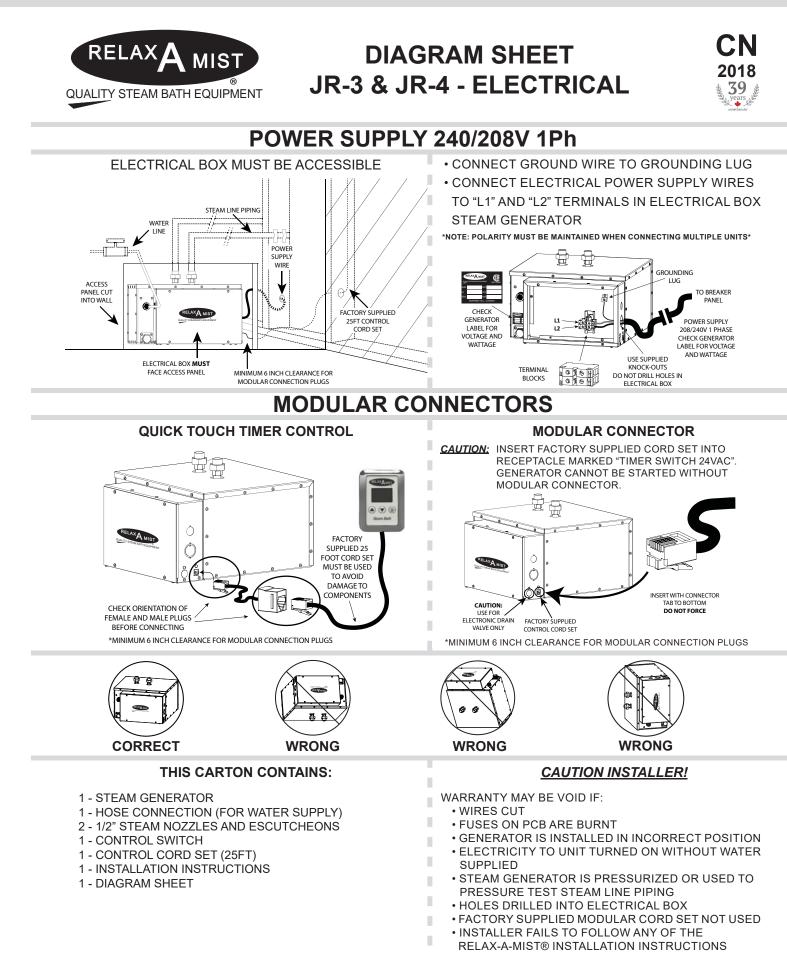
4. Line voltage must be specified when ordering. Units available in 240 or 208 Volts, 1 Phase. Single family dwellings usually have 240 Volts AC while condominiums usually have 208 Volts AC.

Note: Use Copper Wire Only. Do not drill holes in electrical box, use provided knockouts.

DISCLAIMER:

The above information represents suggestions only. Each steam room is unique. Relax-A-Mist[®] manufactures steam generators only and therefore cannot warrant information given regarding steam room materials or construction techniques. Final selection of the steam room temperature setting and the duration of stay is at the discretion of the operators or owners.





1-800-Y-U-STEAM (1-800-987-8326)



WARRANTY POLICY

For a period of one year from the date of installation, or 18 months from the date of manufacture, whichever comes first, all parts and assemblies are warranted as to workmanship and materials used in their manufacture. There is no cosmetic warranty on installed parts or controls. Any Relax-A-Mist[®] products containing defective parts, if returned prepaid to an authorized Service Depot within the one year or 18 month time limit, will be repaired free of charge, F.O.B. the authorized Service Depot making such repairs.

The Company will not be responsible for any breakdown, damage, or losses, direct or indirect, arising in contract or in tort from any cause whatsoever, including failure to follow the Relax-A-Mist[®] installation instructions specifically, careless handling, improper voltage supply, corrosion and/or electrolysis or a buildup of minerals on the parts or assemblies for any reason or from any source; nor for transportation and/or other charges incurred in the removal, replacement or repair of defective products or parts; and there are no warranties or conditions expressed or implied or otherwise applicable, to the company's products except as expressly stated herein.

WARRANTY IS VOID IF RESIDENTIAL STEAM GENERATORS ARE USED IN A COMMERCIAL INSTALLATION.

AUTHORIZED SERVICE DEPOTS

BRITISH COLUMBIA

LEISURE BATHS LTD. 6909 Antrim Avenue Burnaby, BC V5J 4M5

TEL 604-437-4717 or 1-800-Y-U-STEAM (1-800-987-8326) FAX 604-437-5776

MANITOBA

BALCAEN & SONS LTD. 1392 Pembina Highway Winnipeg, MB R3T 2C1

TEL 204-475-1506 FAX 204-287-2222

ALBERTA

FRASER-BOND LTD. 9452 Almond Crescent S.E. Calgary, AB T2J 1B6

TEL 403-253-7533 FAX 403-253-7583

ONTARIO ACCORD APPLIANCE S.C. 65 Joseph St. Toronto, ON M9N 2H9

TEL 416-743-4181 FAX 416-743-4183 ALBERTA

BATHROOMS UNLIMITED 11224 156 Street Edmonton, AB T5M 3Z7

TEL 780-489-5168 FAX 780-483-7543

QUEBEC THOMAS & SCHMIDT (T&S) 2825 rue Sabourin Saint-Laurent, QC H4S 1M9

TEL 514-745-1556 or 1-800-363-0708 FAX 514-745-4777

For assistance, phone Relax-A-Mist® at 1-800-Y-U-STEAM (1-800-987-8326) or e-mail: technicalsupport@relax-a-mist.com

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