

*Mini Mist
Installation
Instructions*

Health

Relaxation

Exhilaration



STEAM ~ WHIRL



MODELS: MM-35, MM-50, MM-65, MM-75 and MM-90
MINI MIST SERIES

GUIDELINES FOR STEAM ROOMS

1. Walls, ceiling and floor must be completely covered with waterproof finish; tile, marble, stone or slate.
2. Any smooth surface flooring that is used such as tile or marble, should include an anti-skid finish to avoid slipping and injury.
3. Any exposed plaster, plasterboard or sheet rock surface must be well sealed with a commercial quality waterproof sealer, urethane or epoxy, at least 3 coats.
4. Use cement board, **DO NOT** use green board.
5. Ceiling should be pitched away from the door 1-1/2" per foot or constructed in a gable configuration to prevent condensation from dripping.
6. Built-in seat should be slightly pitched to allow for condensation run-off.
7. Steam room must be completely enclosed with walls, door, floor and ceiling, but should not be vapor proof. A slight opening of approximately 1/4" is desired to create movement of the steam.
8. A standard glass shower door is sufficient, a special door is not necessary.
9. Make sure there is a floor drain for condensation run-off and cleaning.
10. Do not install a fan inside steam room. Hot steam rises and will escape through the flapper.
11. Windows that are part of the steam room enclosure should be double paned.
12. If using lights inside steam room they must be vapor proof.
13. A deionizer or inline filter hooked up on incoming water line is helpful in hard/corrosive water areas.
14. Install the steam generator to hot side of water to reduce heating time, unless a water softener is hooked up. Water softeners are usually hooked up to hot side.
15. Check local utility line voltage and choose appropriate steam generator voltage; 208 Volt or 240 Volt.
16. Make sure the steam generator is installed in an upright and level position and is in a location that is **ACCESSIBLE** for Water Level Sensor Probe maintenance.
17. Steam generator should never be located where it is exposed to outside weather conditions, freezing temperatures, near flammable materials or inside the steam room.

CONFIRM THE CORRECT MODEL HAS BEEN SELECTED

1.	Multiply the length x width x height of the steam room enclosure (A)	A	Cubic Feet
2.	** If enclosure walls are constructed of glass, marble, concrete, stone or slate: Copy the Figure from box (A) to box (B)	B	Cubic Feet
3.	Total (A) and (B) for total Cubic Feet (C)	C	Cubic Feet
4.	INCREASE (C) FOR EACH OF THE FOLLOWING FEATURES OF STEAM ROOM ENCLOSURE		
	Add 15% for an exterior outside wall	D	
	Add 15% for each additional foot for rooms over 8' high	E	
	Add 15% for an extra glass panel in addition to the door	F	
5.	Add boxes (C) through (F) for total Cubic Feet (G) Select recommended model from the GENERATOR SIZING GUIDE on Page 3	G	Cubic Feet

**** Certain materials used in the construction of steam rooms may require a larger unit to produce the desired conditions. Consult an Architect, Designer, Contractor or the factory to determine all factors necessary to build a suitable and safe steam room. Larger Generators are available.**

- Steam-Whirl's revolutionary LED self analysis system in the Standard Series generator simplifies installation and monitors for proper electrical and water feed at all times.
- All stainless steel tanks and components.
- Extensive factory testing for all conditions.
- 6 year limited manufacturing warranty.
- Factory assistance provided from blueprint to finished product.

GENERATOR SIZING GUIDE

ITEM#	MODEL	MAXIMUM CUBIC FEET CAPACITY*	KW	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE SIZE
92-92035	MM-35	60	3.5	240	1	15	20A	12AWG
92-92050	MM-50	80	5.0	240	1	21	30A	10AWG
92-92065	MM-65	140	6.5	240	1	27	40A	8AWG
92-92075	MM-75	220	7.5	240	1	31	40A	8AWG
92-92090	MM-90	300	9.0	240	1	38	50A	8AWG

Mini Mist Series models contain (1) Steam Generator, (1) Accessory Kit,, Probe Maintenance Instructions and Installation Instruction Guide

PRE-INSTALLATION

1. Verify correct model has been sized for the cubic feet and type of steam room using the **GENERATOR SIZING GUIDE on Page 3**.
2. Check that the electrical power supply available is adequate for the voltage, amps and phase of the generator



WARNING ELECTRICAL SHOCK HAZARD

3. All installations and service must be performed by a qualified electrician and/or plumber and conform to all local and national codes. The generator must be installed and operated according to the instructions. Failure to do so will void the warranty and could lead to injury or death due to the live electrical components involved with installation.
4. Physical size of the unit and accessibility for plumbing service and Water Level Sensor Probe maintenance must be considered.

SAFETY INFORMATION



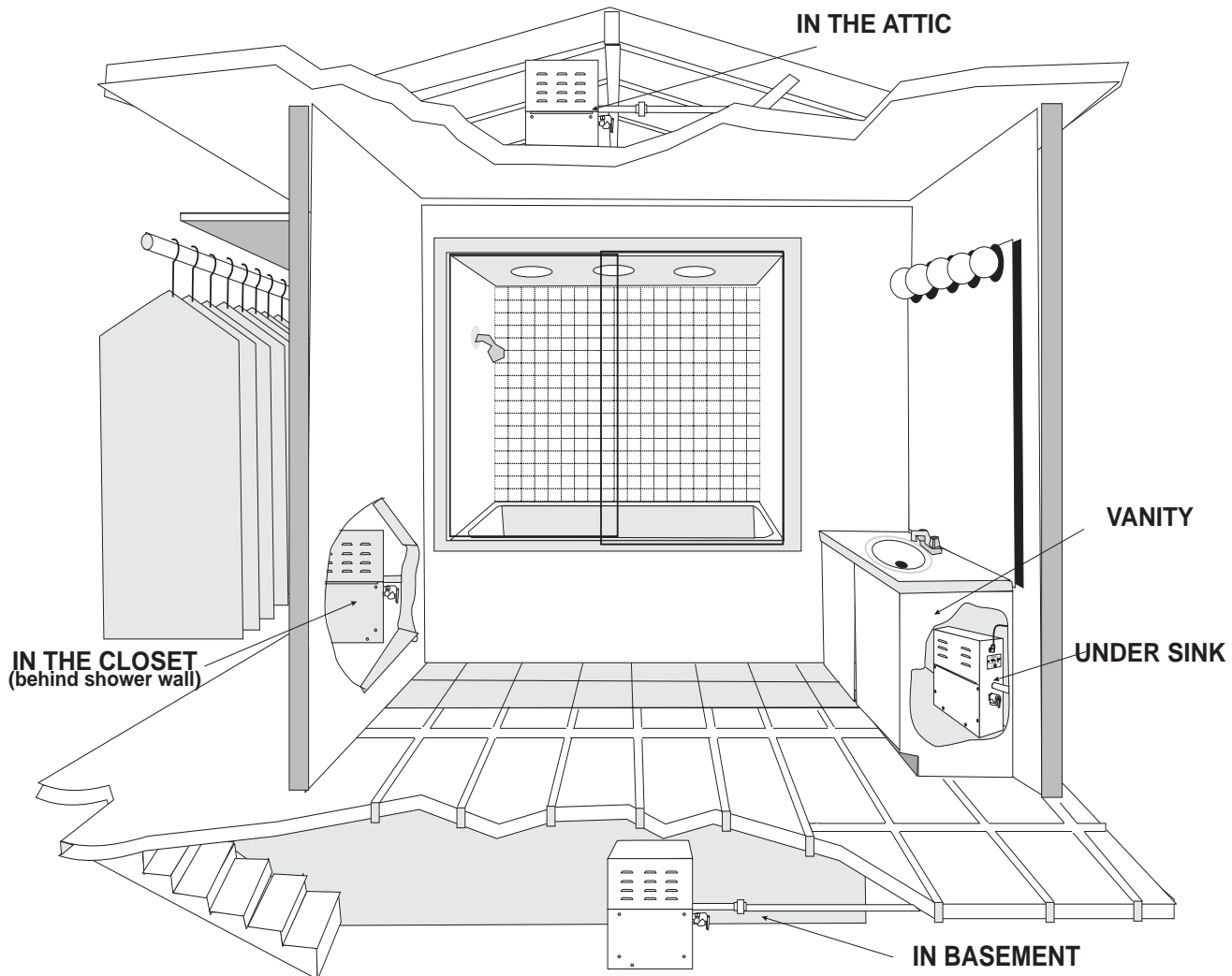
WARNING

1. Prolonged exposure to steam may cause hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness and fainting. The effects of hyperthermia include: Failure to perceive heat; failure to recognize the need to exit the steam room; unawareness of impending risk; fetal damage in pregnant women; physical inability to exit the steam room; and unconsciousness.
2. The use of alcohol, drugs, or medication can greatly increase the risk of hyperthermia.
3. Some aroma therapy oils may cause an allergic reaction - USE WITH CAUTION.
4. Children under the age of 16 should not use the steam room without an adult.
5. The steam head, steam line, plumbing and other components become hot during operation. The steam head and plumbing must be installed in a location so that it cannot come into contact with users to prevent burning or scalding. Insulate plumbing lines for additional protection.
6. After the system is shut down the components will remain hot. Do not come into contact with the steam head or components until the system has returned to a normal temperature.
7. Always shut electricity off at the main breaker panel.



INSTALLATION

1. Place the steam generator in a location (heated attic, basement, vanity, closet or under shower bench) so that it is **ACCESSIBLE** and not more than 40' from steam room. **ALL** steam generators require maintenance. **
2. The steam generator should never be located where it is exposed to outside weather conditions or freezing temperatures, near flammable materials, inside the steam room or where access cannot be gained to Water Level Sensor Probe for maintenance.
3. Install in an upright and level position.
4. The serial number label should be visible and accessible for service.
5. A minimum of 1' of open unobstructed space must be left around the top and sides of the generator to allow for heat dissipation and accessibility for service.



PLUMBING

IMPORTANT: All plumbing should be done by a qualified plumber and must conform to all local and national plumbing codes.



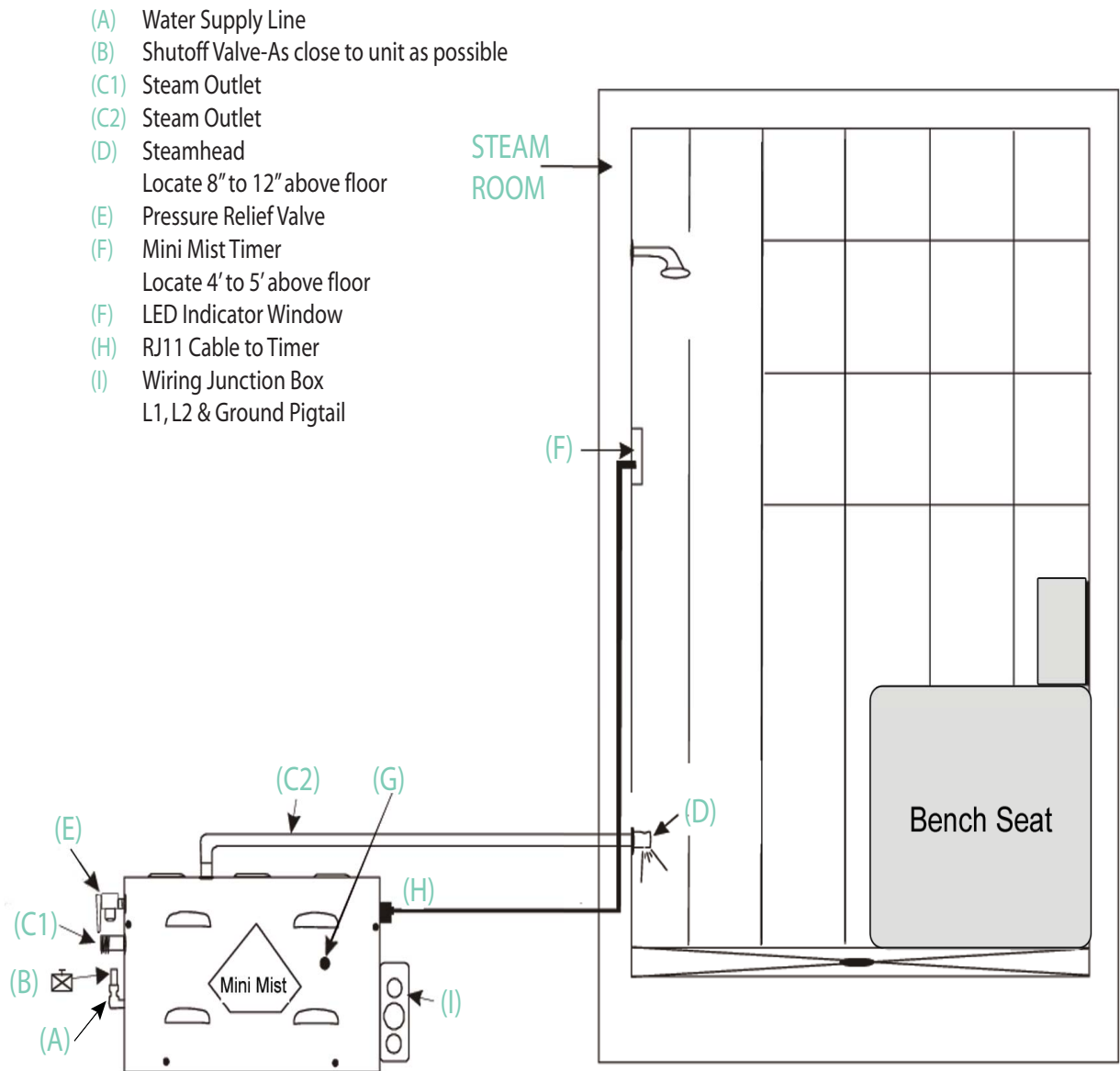
WARNING ELECTRICAL SHOCK HAZARD

POWER MUST BE DISCONNECTED AT THE MAIN ELECTRICAL SUPPLY BEFORE MAKING ANY CONNECTIONS

1. Use copper or brass fittings only. DO NOT use galvanized or black iron.
DO NOT USE PLUMBERS PUTTY ON ANY WATER CONNECTIONS
2. A union must be installed close to the generator to facilitate easy removal, if necessary.
3. Tap off any existing water supply line, hot or cold, with 1/2" copper tubing or 1/2" NPT pipe.
4. Flush at least 1 gallon of water to clear line prior to connecting to the 1/4" compression water inlet fitting (A in Plumbing Diagram) on generator. When tightening this fitting, use two wrenches to avoid strain on Water Solenoid Valve inside generator.
5. Install a shut-off valve (B in Plumbing Diagram) on the water supply line as close to the generator as possible.
DO NOT USE A SADDLE VALVE
6. For best results install an inline filter between the shut-off valve and generator.
7. For best results, steam generator should be higher than the steam head. If this is not possible, steam line must slope 1/4" per foot minimum to steam room.
8. Connect 1/2" copper tubing or 1/2" NPT pipe to steam outlet (C1 in Plumbing Diagram) for left or right side installation or (C-2 in Plumbing Diagram) for top installation and run to approximately 8-12" off finished floor in shower or just above deck of bathtub on any wall not interfering with user and at least 12-14" away from seat or bench. For areas with acrylic or other non-heat resistant floors, install steam head 20-30" off finished floor in shower.
DO NOT PLACE A SHUT-OFF VALVE ON STEAM OUTLET LINE, ONLY ON WATER SUPPLY LINE.
WARNING: DO NOT PLUMB VALLEYS AND DIPS WHERE WATER FROM STEAM CONDENSATION IN THE LINE COULD COLLECT AND CAUSE BLOCKAGE.
9. Leave approximately 1/2" of threads protruding from finished wall. Place escutcheon on threads and screw on steam head (D in Plumbing Diagram). Take care not to scratch the steam head with wrench. Rotate steam head until open slot is facing down.
10. **IMPORTANT:** Steam head must be installed to prevent users from coming into direct contact with the steam head and the steam coming from it. While in use the steam head and steam coming directly from it will become hot and can burn. An optional Steam Diffuser is recommended for small steam rooms.
11. Connect 3/4" copper tubing or NPT pipe to the pressure relief valve (E in Plumbing Diagram). This item must be installed with a union and plumbed to drain to an approved location.
DO NOT PLUMB THE PRESSURE RELIEF VALVE LINE TO THE STEAM LINE OR INTO THE STEAM ROOM.

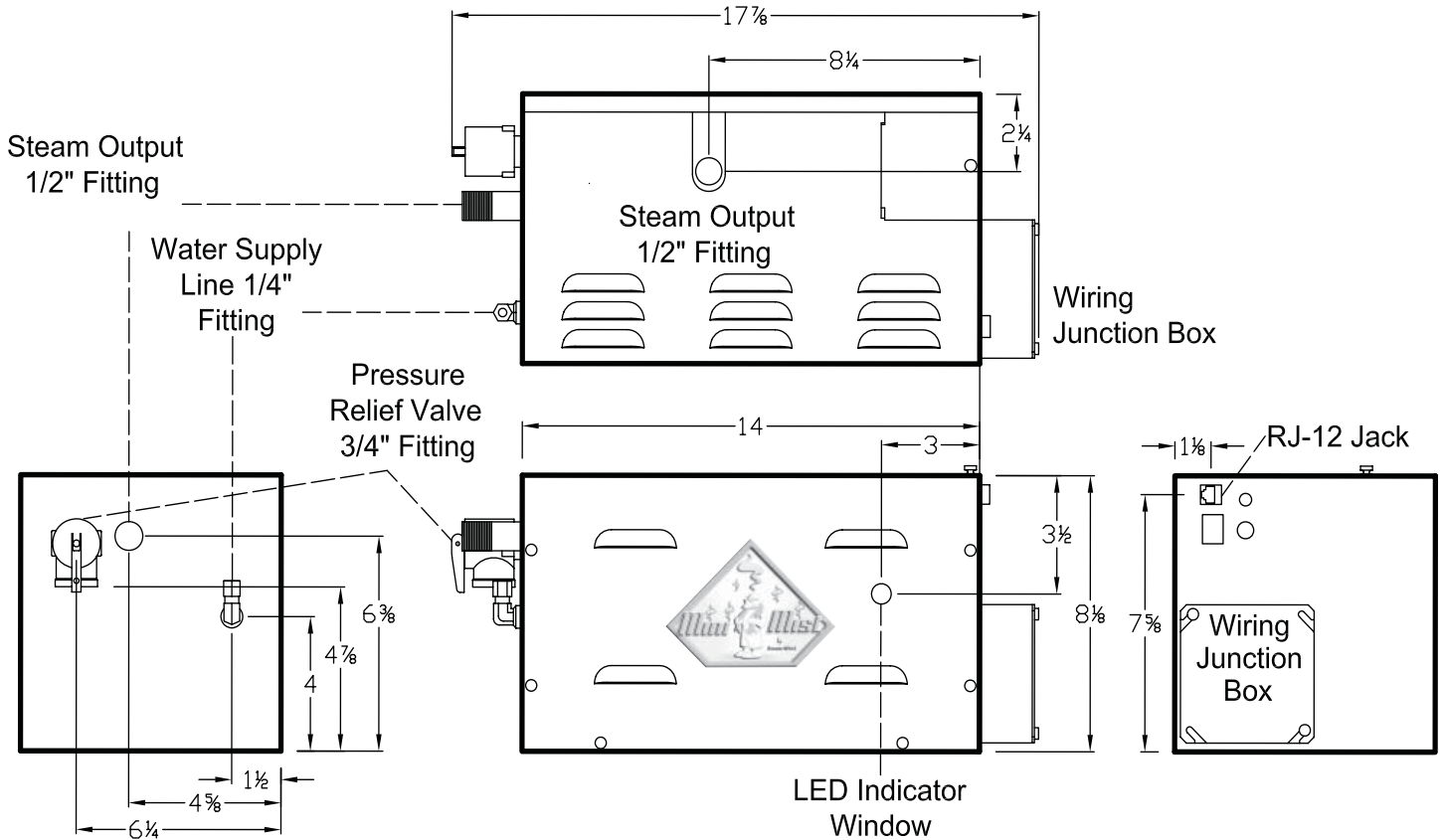


PLUMBING DIAGRAM





GENERATOR DIAGRAM



Water Supply Line	1/4" Copper Line, 1/4" NPT Femal Thread
Steam Output Line	1/2" Copper Line, 1/2" NPT Femal Thread
Pressure Relief Valve	3/4" Copper Line, 3/4" NPT Female Thread, Valve Supplied

ELECTRICAL

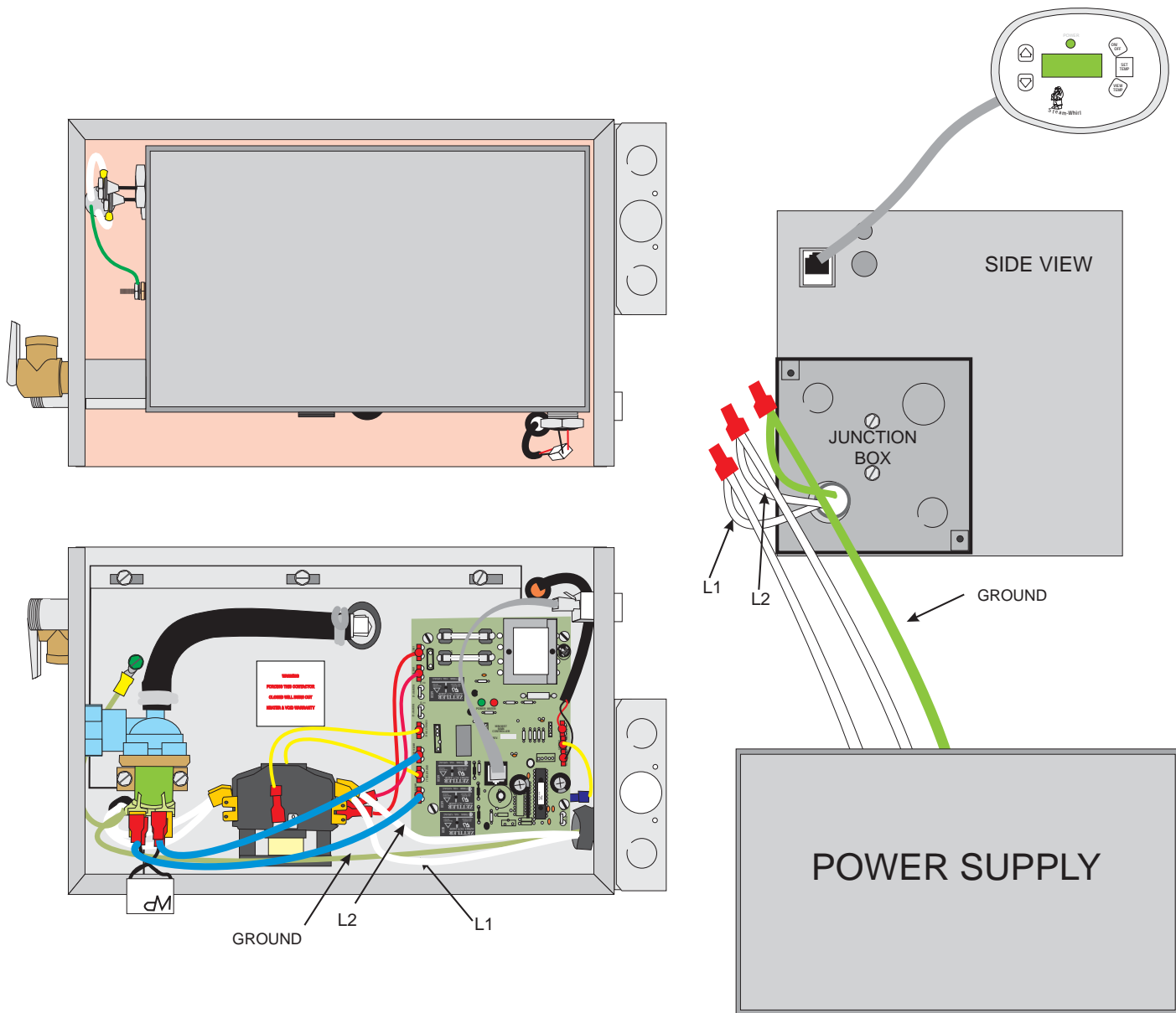
IMPORTANT: All wiring should be done by a qualified electrician and must conform to all local and national electrical codes.

⚠ WARNING ELECTRICAL SHOCK HAZARD

POWER MUST BE DISCONNECTED AT THE MAIN ELECTRICAL SUPPLY BEFORE MAKING ANY CONNECTIONS

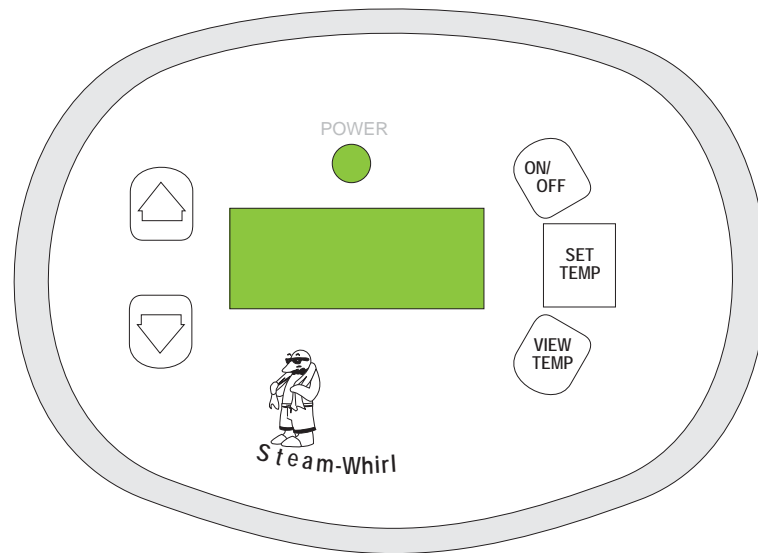
1. Supply wiring should be sized in accordance with the distance, voltage and amps of the unit and suitable for 90°C. Bring supply wires from Wiring Junction Box (I in Plumbing Diagram) to L1 and L2 and the ground to the ground terminal.
2. Install a power disconnect near unit.
3. Install Timer (F in Plumbing Diagram) according to Timer Installation Instructions.

MINI MIST SERIES WIRING DIAGRAM





MINI MIST SERIES TIMER INSTALLATION



- TIMER (F in Plumbing Diagram)**
 - The Mini Mist Digital Timer **MUST** be installed in the steam room. Requires 1-3/8" mounting hole.
 - Connect the supplied modular telephone cable (**H in Plumbing Diagram**) to the RJ11 jack on the back of the Mini Mist Digital Timer and to the RJ11 jack on the outside of the Mini Mist unit above Wiring Junction Box.
 - Press ON button, the Mini Mist Digital Timer display window will show the value of 60 minutes. Every minute thereafter, it will decrease and display the updated amount of time remaining.
 - At any time while the Mini Mist Digital Timer displays the time, the user may adjust the time remaining anywhere from 1 to 90 minutes, by using the up and down arrow icons. The timer will then count down from the new value, each minute, as before.
- TEMPERATURE**
 - At any time, the user may press the SET TEMPERATURE button. The 3-digits LED display will then temporarily change to show the temperature setting.
 - While the display is showing the temperature setting, either of the up and down arrow icons may be pressed so that the temperature setting can be adjusted.
 - Pressing the up and down arrow icons adjusts the temperature setting by one (1) degree increments from 90 to 120 degrees Fahrenheit.
 - Repeated pressing of either arrow button or holding one of the buttons down, allows the user to change the setting to the desired temperature. If there is no further pressing of either button, the display will automatically revert back to displaying the current time remaining and the system will bring the steam temperature back to the temperature setting.
 - When power is first supplied to the Mini Mist system or after a power interruption, the initial temperature setting will be 100 degrees Fahrenheit.
 - As long as the line power is not disconnected, the temperature setting will remain at the last user adjusted value.
3. The Mini Mist will shut-off steam when the desired temperature is reached and will automatically resume, if temperature drops below the set point.
4. If the Mini Mist is operating properly, peel liner off the back of the timer foam gasket and adhere to the wall.
5. **DO NOT staple cables.**



SYSTEM INITIALIZATION - STANDARD SERIES ONLY

1. Plug in RJ11 Cable (**H in Plumbing Diagram**) to Mini Mist timer at unit and test before installing permanently.
1. After all connections are completed, make sure power and water are on by verifying the following indicator lights viewable through front panel cutout hole (**G in Plumbing Diagram**).
 - Turn on timer and allow for sufficient time for generator to react.
 - Green light **ON** verifies electrical power is on (**G1**).
 - Green light **OFF** check circuit (**G2**).
 - Red light **ON** water level is low and tank is filling until water reaches proper level (**G1**).
 - Red light **OFF** water level is adequate (**G2**).
2. Steam will begin to appear at the steam head.
3. The timer control will shut off steam generator, when the desired temperature is reached.
4. The timer will automatically resume, if temperature drops below set point.
5. Steam will shut off automatically, when time display reaches zero.



MAINTENANCE



WARNING ELECTRICAL SHOCK HAZARD

POWER MUST BE DISCONNECTED AT THE MAIN ELECTRICAL SUPPLY BEFORE PERFORMING ANY MAINTENANCE

1. The steam generator is designed for unattended operation and requires little maintenance.
2. Water Level Sensor Probe maintenance is as follows:
 - Shut off main electrical breaker.
 - Open Wiring Junction Box and with a volt meter test that there is no voltage on power side of the terminal block L1 and L2.
 - Turn brass screw on 2-1/2" x 3" panel on top of unit to access top of Brass Water Level Sensor Probe.
 - Disconnect red and black wires from top of Brass Water Level Sensor Probe.
 - Carefully unscrew Brass Water Level Sensor Probe.
 - Sand off any calcium build-up or debris on sensor tips with very fine sandpaper.
 - **DO NOT CUT OR TRIM SENSOR WIRES**
 - Apply white teflon tape around thread.
 - Carefully screw Brass Water Level Sensor Probe back in.
 - Reinstall red and black wires to top of Brass Water Level Sensor Probe.
 - Turn on main electrical breaker.

NOTE:

This maintenance is suggested for any service specialist. Iron content in local water will determine the frequency of probe service. Start out at least once a month and if the probe is clean and not coated, then try every two months, etc. More frequent servicing of the probe may be needed if the unit is in an extremely hard water area or the water is supplied by a well.

WARRANTY

Steam-Whirl Products warrants its products to be free of defects in workmanship and material, under normal use and maintenance, for a period of (6) years from the date of original purchase.

Steam-Whirl Products liability under this warranty shall be limited to repair or replacement of products that have been determined to be defective in either materials of workmanship by an agent or representative of Steam-Whirl Products. If repair or replacement cannot be made on the premises by such agent or representative then the product should be sent to the service facility.

Technical Service
STEAM-WHIRL PRODUCTS
3775 W Teco Ave #5
Las Vegas, NV 89118-6827
800-232-7832

Products being sent to the service facility need to have prior approval and an RMA # (RETURNED MERCHANDISE AUTHORIZATION #) assigned. The products are to be packed in a well padded box, include RMA #, name, return address and daytime phone number along with a short description of problems. Mail or ship the unit, prepaid, to the above address.

If the product is returned for a defect other than in materials or workmanship a reasonable charge will be made for parts, labor and shipping.

This warranty shall be void and/or does not cover the following:

- 1) Charges for parts or labor incurred before delivery of product to the address above.
- 2) Any damage or defect caused by the installer, service company, user or any other person.
- 3) Installation is not in accordance with the installation instructions provided with the product and/or installation by a person other than a licensed electrician or plumber.
- 4) Deterioration due to normal wear and tear.
- 5) Misuse, accident, incorrect operation, lack of proper maintenance, acts of God.
- 6) Chemical corrosion.
- 7) Alteration of product in any way.
- 8) Exposure to outside weather conditions or temperatures.
- 9) Contact shows evidence of short circuiting.
- 10) Damage incurred in transit. The user or installer must examine the product immediately on delivery, before installation and report any damage to the carrier and the seller.
- 11) Shipping costs to or from warranty service facility unless required by applicable law.
- 12) Repair or replacement of any installation materials including, but not limited to, tiles, marble, etc or costs relating to obtaining access for repair, removal or reinstallation of the product or a replacement product.

It is the responsibility of the user, installer or contractor to provide access for service and removal of the product, if necessary. Steam-Whirl Products is not responsible for any costs relating to accessing the product or its removal.

The dealer, distributor and/or installer is responsible for knowing the applicable building codes and the dealer and/or distributor should notify the installer of same or confirm that the installer is aware of the applicable building codes. Building codes vary from location to location and Steam-Whirl Products cannot be responsible for knowledge of such codes.

No other company or person has any authority to make any warranties or representations concerning Steam-Whirl Products or the products. Accordingly, Steam-Whirl Products is not responsible for any such warranties or representations.

Steam-Whirl Products has not made and does not make any warranty, either expressed or implied, about the condition, merchantability, design or operation of the product or its fitness for any particular use or purpose, or the quality of the materials or workmanship in the product or any other representation or warranty beyond the terms of this warranty

Steam-Whirl Products shall not be liable for the user's incidental or consequential damages. User acknowledges that the price of the product would be higher if Steam-Whirl Products were liable for consequential or incidental damages.

Some states do not allow the exclusion or limitation, in whole or in part, of warranties or the exclusion of consequential or incidental damages, therefore the above limitation or exclusions may not be applicable to you.

Steam-Whirl Products warranty obligation shall be discharged upon tender of repair or replacement. User's refusal to accept the tender terminates Steam-Whirl Products' warranty obligation.

MODEL # _____

DESCRIPTION _____

SERIAL # _____

Water Sensor Probe Maintenance Schedule:

1st Check Suggested: _____

2nd Check: _____

3rd Check: _____



FOR TECHNICAL ASSISTANCE CALL: 800-232-7832
E-MAIL: techsupport@steam-whirl.com



STEAM ~ WHIRL

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