

**MTI WHIRLPOOLS
CLASSIC AND DESIGNER SERIES**



**OWNER'S MANUAL
INSTALLATION GUIDE
Effective January 1, 2009**

Installer: this booklet must be given to the product owner. Please note important information below:

Distributor Name # _____

Model # _____

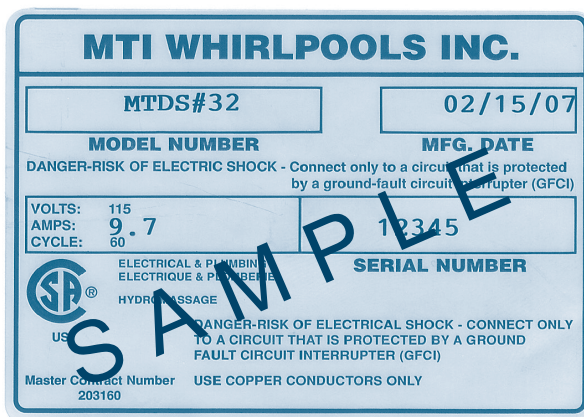
Manufacturer's Date _____

Registration # _____



OWNER'S MANUAL AND INSTALLATION GUIDE

Thank you for choosing an MTI Bath. You have purchased the best-built acrylic bath in America. We know it will give you many years of pleasure. The instructions in this booklet will provide you with the information you need to install and operate this unit. This information is also available on mtiwhirlpools.com. Our customer service department is available to answer any additional questions you may have pertaining to the installation and operation of your bath. Call 1-800-783-8827 to speak to our Service Department. For faster service, please have your warranty registration number (serial number) ready when calling. The registration number can be found on the CSA/UL label adhered to the exterior surface of the tub. This sticker is typically placed several inches above the pump or blower.





IMPORTANT SAFETY INSTRUCTIONS












WARNING: WHEN USING ELECTRICAL PRODUCTS, BASIC PRECAUTIONS SHOULD BE FOLLOWED, INCLUDING THE FOLLOWING

This manual contains information and instructions for proper operation and maintenance of your MTI bathtub. Failure to follow these instructions could result in personal injury, electrical shock or fire.

INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

READ AND FOLLOW ALL INSTRUCTIONS

-  Do not permit children to use this unit unless they are closely supervised by an adult at all times. Supervision is also required when bath is used by an elderly or handicapped individual.
-  Use this unit only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer. Never drop or insert any object into any opening.

-  Do not operate this unit without guard over the suction fitting.
-  The water in a hydrotherapy bath should never exceed 40° C (104° F). Water temperatures between 38° C (100° F) and 40° C (104° F) are considered safe for a healthy adult. Use time should be limited to approximately 10 minutes, followed by a shower to cool down. Longer exposures may result in hyperthermia, which can be fatal. The symptoms of this condition are nausea, dizziness and fainting. Lower water temperatures are recommended for extended use (exceeding 10 - 15 minutes) and for young children.
-  Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit hydrotherapy bath water temperatures to 38° C (100° F).
-  The use of drugs or alcoholic beverages before or during hydrotherapy bath use may lead to unconsciousness with the possibility of drowning. Never use the hydrotherapy bath while under the influence of alcohol, anticoagulants, stimulants, antihistamines, vasoconstrictors, vasodilators, hypnotics, narcotics or tranquilizers.
-  Persons with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a hydrotherapy bath.
-  Persons using medication should consult a physician before using a hydrotherapy bath since medication may induce drowsiness while other medication may affect heart rate, blood pressure and circulation.
-  **DANGER:** To reduce the risk of injury, enter and exit the bath slowly.
-  **WARNING:** Never operate electrically connected devices in or within 5' of the bath. Never drop or insert any object into any opening within the hydrotherapy bath.
-  **DANGER:** Risk of electric shock. Connect only to circuits protected by a Ground Fault Circuit Interrupter (GFCI). Such a device should be installed by a licensed electrician and should be tested on a regular basis (at least monthly). To test the GFCI push the TEST button. The GFCI should interrupt the power. Push the RESET button and the power should be restored. If the GFCI fails to operate in this manner there is the possibility of an electric shock. **DO NOT USE.** Disconnect the unit and have the problem corrected by a qualified service technician. To avoid the possibility of personal injury and discoloration of the acrylic surface, the inlet water temperature should not exceed 60° C (140° F).
-  **DANGER:** Disconnect power before servicing.
-  A pressure wire connector is provided on the exterior of the pump or control within this unit to permit connection of a bonding conductor between this unit and all other exposed metal in the vicinity, as needed to comply with local requirements.

INSTALLER/OWNER BEARS ALL RESPONSIBILITY TO COMPLY WITH ALL STATE AND LOCAL CODES WHEN INSTALLING THIS PRODUCT.

IMPORTANT! WHEN REQUIRED BY LOCAL CODES, INSTALL A RPZ (REDUCED PRESSURE ZONE) BACKFLOW PREVENTION DEVICE TO EACH FAUCET SUPPLY LINE.

-  **CAUTION:** Do not use harsh abrasives or solvents for cleaning this unit.

SAVE THESE INSTRUCTIONS

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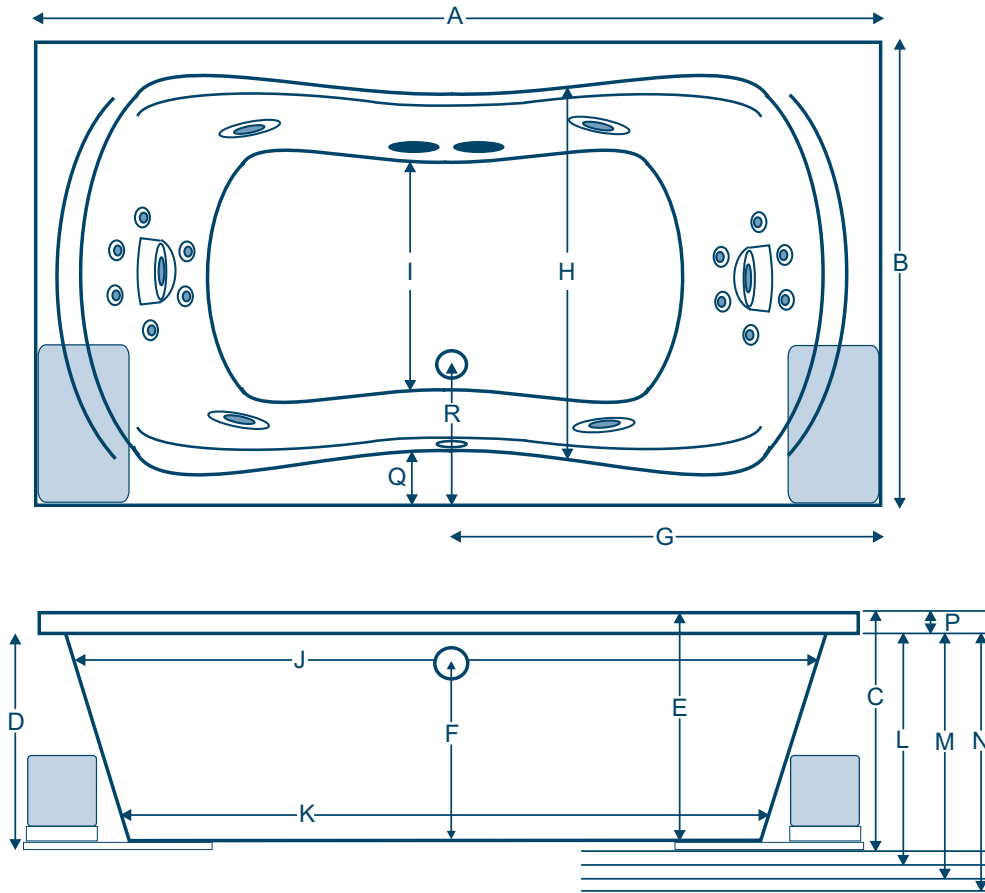
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ATTENTION INSTALLER!

Access must be provided to **each** pump, air blower and/or electrical component on your tub. The access panel(s) must have a minimum size of 16" x 14" for installation and future servicing of the equipment.

MTI Whirlpools, Inc. will not authorize any service unless **clear** access is available. Access from a crawlspace or incomplete access to all equipment may result in warranty claims being denied.

IMPORTANT INSTALLATION MEASUREMENTS



- A: Overall length
- B: Overall width
- C: Overall height
- D: Height – flange bottom to tub bottom
- E: Inside tub height
- F: Center of overflow to tub bottom
- G: Drain center to right tub edge
- H: Inside bowl width at top of bowl
- I: Inside bowl width at bottom of bowl
- J: Inside bowl length at top of bowl
- K: Inside bowl length at bottom of bowl

- L: Allow 1/2" to 1" to D for wet bedding
- M: Pre-leveled frame height* – Adds 1/2" - 3" to height
- N: System Aria height* – Adds approximately 2" to height
- P: Flange edge depth
- Q: Top flange width
- R: Drain center to edge of flange

*Please measure actual tub **prior** to building any decking or framing. Specifications are subject to change without notice. MTI Whirlpools, Inc. is not responsible for any labor or material charges for preparatory work.

INSTALLATION INSTRUCTIONS

Read all instructions before installing tub. Installer / product owner is responsible for complying with all state and local codes.

BEFORE INSTALLING:

Inspect tub thoroughly.

- A. Damage from shipping or delivery must be reported to carrier immediately. **Do not install damaged tub. MTI is not responsible for damage occurring in transit.**
- B. Factory defect must be reported to factory before tub is installed. Defects or damage claimed after installation will exclude warranty.
- C. **Important** - Measure tub on site carefully before framing or cutting any deck materials. Specifications are subject to change without notice. MTI Whirlpools is NOT responsible for any preparatory labor or materials.

CAUTION: DO NOT LIFT TUB BY PIPING, PUMP OR OTHER EQUIPMENT

DO NOT RUN PUMP DRY

To Do So May Cause Damage Not Covered By the Warranty

ATTENTION INSTALLER!

THIS TUB MUST BE TESTED FOR OPERATION AND LEAKS PRIOR TO ENCLOSURE OF SURROUNDING AREAS. FAILURE TO DO SO WILL VOID WARRANTY. THIS TUB WAS WATER TESTED AT THE FACTORY AND FOUND TO BE FULLY OPERATIONAL AND LEAK-FREE PRIOR TO SHIPPING. FREIGHT HANDLING AND JOB SITE EXPOSURE MAY HAVE DETERIORATED THE TUB'S CONDITION. IT IS THE RESPONSIBILITY OF THE INSTALLER TO THOROUGHLY TEST THE UNIT PRIOR TO INSTALLATION. TUBS ARE INTENDED FOR INDOOR USE ONLY.

TEST PROCEDURES

1. Place the tub on a flat surface such as the driveway.
2. Seal the drain with tape.
3. Fill tub to overflow and allow tub to stand for five minutes **without the pump or blower running**. Examine all fittings carefully for leaks. **NOTE:** The overflow is a plumbing device designed to prevent water from reaching a certain level in your tub. **DO NOT**, under any circumstances, tape off or block the overflow in any way. Any controls located above the normal water line are designed to be water-resistant, not water-proof. The controls will not leak under normal usage, however, they are not warranted against leaks when improperly used or subjected to conditions for which they were not designed.
4. Plug the pump and/or blower into a 110v GFCI outlet. Start the pump(s) and check all fittings for leaks.
5. Check that all optional equipment is functioning properly and that the features on the tub match exactly what was ordered.
6. **If any leaks or operating problems are discovered, do not complete installation until problems are resolved. MTI will not be responsible for any costs involved with removing or reinstalling the tub, or for the costs of any surrounding materials or labor.**

See troubleshooting section of this manual or call for assistance: 800-783-8827

Always protect tub from construction damage by using a protective cover. Damage, including chips and scratches, incurred at the jobsite is excluded from warranty, but may be repaired by qualified technician at the owner's expense. Do not stand in the tub

or store materials in the tub during construction. Do not store tub in temperatures below 32 degrees Fahrenheit. Proper waste and overflow installation is the responsibility of the installer. MTI does not warrant leaks associated with improper waste and overflow installation.

There are many possible ways to install your new MTI tub, and some may require different framing than the following instructions. Keep in mind that the framing should always provide a level surface for the rim of the tub and sufficient space below the tub for bedding compound. **Access must be provided to each pump, air blower and / or electrical component on your tub. The access panels must have a minimum size of 16" x 14" for installation and future servicing of the equipment. MTI will not authorize any service unless clear access is available. The installer is responsible for providing access for any future servicing.** The optional MTI wood or acrylic skirt provides this access in many cases.

Additional access to plumbing fixtures is strongly recommended. It is the responsibility of the installer to comply with local plumbing codes regarding pump and plumbing access. **Note: Do not allow any material such as insulation within 8" of pump. Pump and blower must have sufficient air space surrounding them for circulation.**

TYPICAL INSTALLATION

See page 5 for free standing tub installation.

Do not begin building any structure for your tub until your tub arrives. All printed specifications for MTI tubs have +/- 1/2" tolerance. Take all final installation dimensions from your tub. Note: System Aria, the pre-leveled foam base and pre-leveled frame add approximately 2-3 inches to the height of the tub.

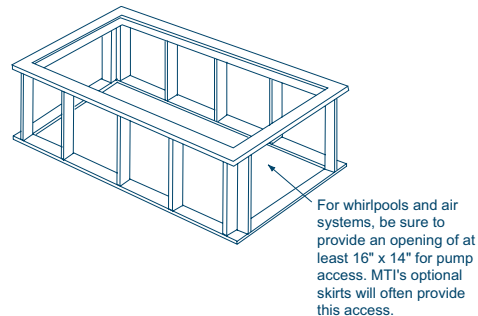
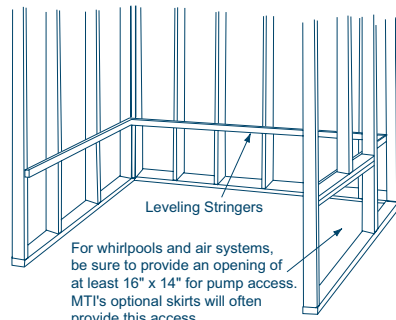
Determine the ideal height of the tub rim by measuring from the underside of the rim to the floor on the drain side and add 1/2" to allow for bedding compound. If your tub has a pre-leveled foam base or air system, do not add 1/2" since wet-bedding is not necessary. Alternately, if ordered with optional MTI skirting, measure the height of the skirt to determine mounting height. Please refer to skirt installation section for additional instructions. The tub must be leveled by the rim of the tub, and supported by the bedding (or foam base) under the full length of the tub bottom.

ALCOVE

Mark a level line on the stud walls using the measurement determined above. A 2"x2" or similar stringer will be attached to the studs touching this line. All mounting surfaces must be level to allow for proper drainage. Framing of the same height should be constructed across the front of the tub for skirt, tile or other material. Remember to allow for access to each pump, blower and/or electrical component.

DROP IN

Use the above dimension as the finished deck height from the floor. The drop in opening should be approximately 1 1/2 inches smaller than the outside dimensions of the tub. This will create a 3/4 inch ledge to support the entire rim of the tub. It is best to have as large an opening as possible in the deck to clear the plumbing and other tub accessories during install while still providing full support for the rim. Full size templates for oval or odd shaped tubs can be purchased through your distributor.



UNDERMOUNT

MTI does not make recommendations as to the size and shape of the opening for undermount installation. Do NOT use any templates supplied by MTI for undermounting. Construct framing for the tub using the measurement determined above, this structure is to level the tub. Additional framing must be provided around the tub to support the weight of the decking material. The rim of the tub is not to bear the weight of the deck material.

Install drain according to manufacturer's instructions and provide adequate clearance to route drain assembly through subfloor.

Your MTI tub must be supported along the full length of the tub bottom with bedding compound. MTI recommends using a plastic sheet barrier on top of and underneath the bedding compound. Carefully lower tub into place. Shift tub side to side to settle into compound. Tub rim must rest on stringer, knee wall or deck. The bedding compound and not the rim of the tub must support the weight of the bath. Let compound harden overnight before use. **Failure to properly bed the tub will void warranty.** Be careful not to damage any plumbing, wiring or any other options during final placement of the tub.

Note: The factory-installed optional pre-leveled frame eliminates the need to frame along the walls and use bedding compound to level the tub. **The pre-leveled frame adds ½ to 3 inches of height, depending on the specific model of tub.**

INSTALLATION INSTRUCTIONS FOR INTEGRAL SKIRTED TUBS

All of MTI's Integral Skirted tubs come with several standard features. Standard features include an integral molded front skirt, integral three-sided tile flange and a pre-leveled foam base. These tubs are designed to be installed in a three-wall alcove.

1. Slide tub into installation location. Check to ensure that the tub is level to allow for proper drainage. If the tub is level, proceed to step two. If the tub is not level, use bedding compound to level tub.
2. Carefully drill 1/8" holes through the tile flange at each stud location. Secure to stud with screws, being careful not to over-tighten as this may cause the acrylic to crack or chip. Do not attempt to drive nails through the integral flange. See illustrations on pages 8 and 9.

SYSTEM ARIA INSTALLATION INSTRUCTIONS

Do not attempt to remove the foam or board from the bottom of the tub. Doing so may cause damage and will void the warranty. Do not remove the wires attached to the sensors located on each side of the drain.

1. Never handle the bath by the blower, piping or other equipment.
2. Make sure the manifold and airlines are protected when moving the tub into the house.
3. An access panel of at least 16" x 14" must be provided for the blower for any future servicing.
4. The blower must not be insulated and must have sufficient air space to permit proper operation. Surrounding ambient air temperature should be between 72°F and 86°F.
5. The heating element on your blower heats the air blown into the tub to prevent the water from cooling too quickly. It will not, under any circumstances, reheat or maintain the temperature of the bath water.
6. The area underneath and around the tub must be cleaned thoroughly before finalizing installation to prevent any particles from entering the blower or being blown into the air jets.

7. Before filling the tub, clean installation debris and dirt from the interior of the tub. If necessary, use the soft brush attachment of a vacuum cleaner.
8. Fill tub and test for proper operation and leaks. Note: The blower must be plugged into a GFCI protected outlet.

Note: All air baths are equipped with an automatic drying cycle. The blower will turn on for 1-2 minutes approximately 7 minutes after the bath is drained. The blower LED blinks during the drying cycle countdown. This drying cycle cannot be cancelled. Any attempt to cancel this cycle only resets the countdown timer.

REMOTE MOUNTING THE BLOWER

The blower may be remote mounted up to 8' from the bath. The air hose leading to the blower may be installed under the floor and the blower located inside a utility or linen closet. Use care not to crush or restrict the airflow in the line in any way. The blower may also be located underneath the tub. In either case, access to the blower must be provided for any future service.

1. Disconnect the air hose from the blower and use the provided clamps and coupling to attach extension hose.
2. Reconnect hose to the blower.
3. The wires leading from the keypad and sensors on the bottom of the bath to the blower are of sufficient length to allow for remote mounting up to 8' away.
4. Secure blower using wood screws through the mounting feet.

Note: Pipe insulation may be used on the air hose to help retain the warmth from the blower. Do not use insulation within 8" of the blower. The blower needs sufficient air space surrounding it for circulation. The blower requires a separate 110 VAC, 15 amp GFCI circuit.

FREESTANDING BATH INSTALLATION

1. Determine final location of tub.
2. Ensure location is structurally sound, flat and level.
3. Remove access panel to gain access for waste and overflow installation.
4. Roll tub onto front face being careful not to damage the acrylic finish. Use packing blanket or other suitable material to protect the surface of the tub.
5. Install waste and overflow.
6. Using two 2x4s to elevate the tub above the floor, align the tub so that the drain lines up with the P-trap in the floor. **DO NOT LET THE TUB REST ON THE DRAIN PLUMBING.**
7. Apply a 3/8" bead of construction adhesive or clear silicone to the bottom of the tub to adhere it to the floor. Use care not to allow adhesive to get on the outside surface of tub or surrounding floor area. Wipe any excess immediately with a soft, damp cloth.
8. Carefully remove the 2x4 supports and lower the tub to the floor, making sure that the drain drops into the P-trap.
9. Check that the drain is properly aligned and reinstall the access cover.
10. Allow to set for 24 hours before using.

ADDITIONAL INSTRUCTIONS FOR FREESTANDING AIR BATHS

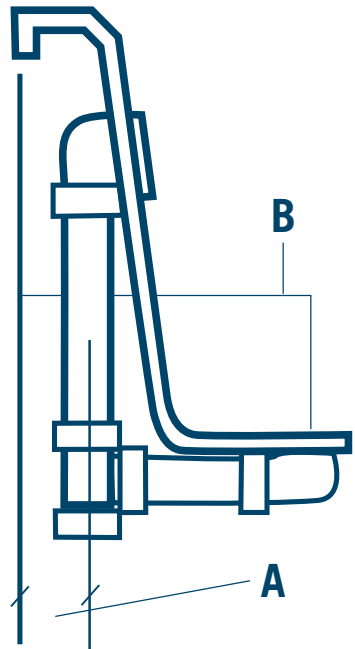
All freestanding air baths may be installed in the center of the room. Keep in mind that the placement of the blower can be challenging or problematic. All models have a built in access panel for drain installation that you may prefer to place on the less visible side of the bath. Although each installation may vary, MTI offers two solutions to blower placement.

- a) Adjacent to the tub: A decorative box to hide the blower may be purchased from MTI or custom built on site. The box should always provide access for future servicing of the blower, as well as the required minimum 5" x 7" ventilation panel.
- b) Remote mounting the blower: The blower may be remote mounted up to 8' from the bath. The air hose leading to the blower may be installed under the floor and the blower located inside a utility or linen closet. Use care not to crush or restrict the airflow in the line in anyway. The blower may also be located underneath the tub. In either case, access to the blower must be provided for any future service.
 1. Disconnect the air hose from the blower and use the provided clamps and coupling to attach extension hose.
 2. Reconnect hose to the blower.
 3. The wires leading from the keypad to the blower are standard 6' in length. Up to 12' is available upon request. The wires on the sensors are 10' in length standard.
 4. Secure blower using wood screws through the mounting feet.

Note: Pipe insulation may be used on the air hose to help retain the warmth from the blower. Do not use insulation within 8" of the blower. The blower needs sufficient air space surrounding it for circulation. The blower requires a separate 110VAC, 15 amp GFCI circuit.

ROUGH-IN MEASUREMENTS FOR FREESTANDING TUBS:		
Model #	Measurement A (From outside edge of tub to center of tee).	Measurement B (From outside edge of tub to center of drain).
66	3"	9 5/8"
67	2 3/4"	8"
68	3"	9 5/8"
74	4"	9 1/2"
75	3"	7 1/2"
82	3 5/8" / 5 1/8"*	9 5/8" / 11 1/8"*
86	2 3/8"	9 1/4"
88	4 1/8"	9 5/8"
99	3 5/8"	8 5/8"
100	3 5/8"	9 5/8"
112	3 1/8"	8 1/4"
118	4 1/4"	9 3/4"
120	4"	10"
136	3 1/2"	10 1/4"

Note: All specifications are subject to change without notice. MTI recommends measuring your specific tub on site.



*Due to the concave shape of the Sapelo, the edge of the tub at the overflow is inset from the corners. Use these measurements when estimating distance from the wall to center of tub or drain.

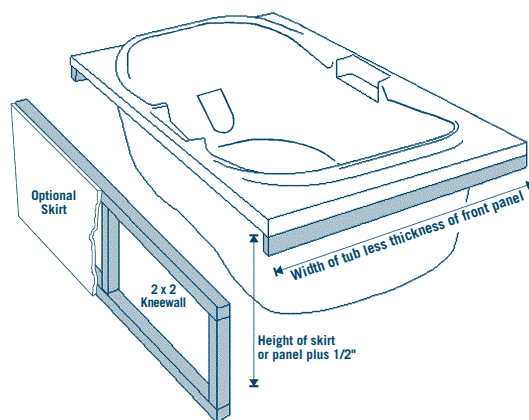
OPTIONAL SKIRT INSTALLATION INSTRUCTIONS

IMPORTANT: TUB INSTALLATION WITH OPTIONAL FACTORY-SUPPLIED SKIRT

Before installing tub, you **MUST** measure the height of the optional factory-supplied skirting. The lower edge of tub flange should be mounted at corresponding height to ensure ease of installation.*

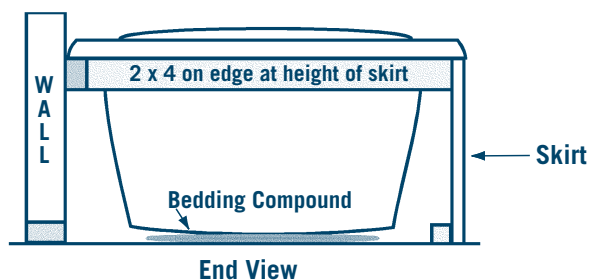
***Failure to do this will require the skirt to be trimmed to fit installation.**

1. Secure 2x2 or similar cleat to subfloor recessed 3/4" for acrylic or wood skirt.
2. If acrylic skirt needs to be trimmed to fit the installation, it can be cut with a circular saw with a sharp toothed blade. Use duct tape to protect surface of skirt and to mark cut line.
3. **Important:** If an acrylic skirt is ordered with a tub equipped with an air system, the provided filler strip is needed to accommodate the additional height of the tub.



MOLDED ACRYLIC SKIRT

Position skirt against supports and brace temporarily into desired position. To make skirt removable for access, secure with siliconized caulk on all four sides. Allow caulking to cure overnight before removing bracing. Alternatively, the skirt may be screwed into place using screw caps (available at home centers and hardware retailers) to hide screws.

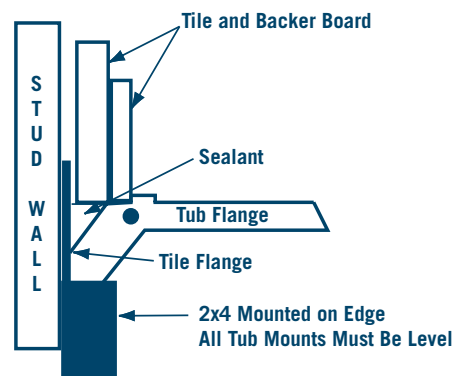


WOOD SKIRT

Paint front and back of skirt to seal wood before attempting installation. Secure to floor cleat and wall supports using 4d finish nails. Paint as desired.

TILE/NAILING FLANGE KIT – FIELD INSTALLATION

1. Clean tub flange.
2. Apply supplied adhesive to tub flange and tile flange with brush, being careful not to get adhesive on top of tub.
3. Position tub 2-3" from wall.
4. Apply tile flange to tub flange.
5. Position the tub against the walls. Adhesive will set in five minutes.
6. Seal / fill the void between the tile flange and tub with clear silicone.
7. Trim any excess flange.



INTEGRAL TILE FLANGE

Determine mounting height of front flange of tub. If installing with optional skirt, mounting height is the height of the skirt. With front flange at proper height, shim tub until level. **Carefully drill 1/8" holes through the tile flange** at each stud location. Use bedding compound to support tub to correct height. Secure to stud with screws, being careful not to over-tighten as this may cause acrylic to crack or chip. **Do not attempt to drive nails through the integral flange.** See diagrams below.



PRE-LEVELLED FRAME

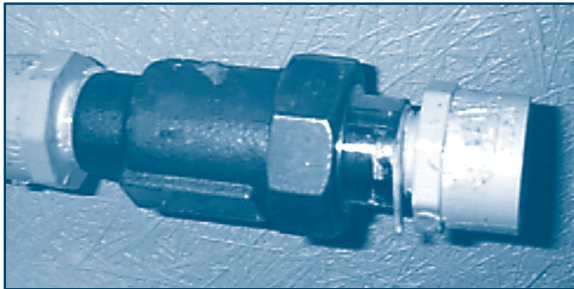
Place tub into proper location and attach to floor with 2" screws drilled through frame. This system does not require bedding compound unless subfloor is uneven and unit must be shimmed to achieve level. The pre-leveled frame adds approximately 1/2"-3" to the height of the bath.

UNDERMOUNT

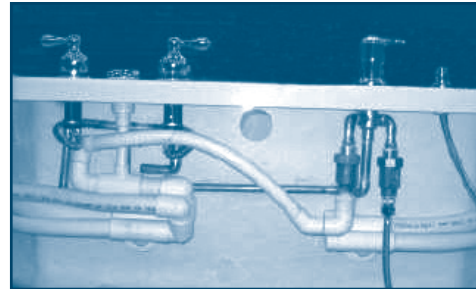
Undermount installation is constructed similar to deck mounting procedures. The framing must be adequate to support the additional weight of the solid surface material. The tub must not support the weight of the solid surface material. Due to varied methods of undermounting, MTI does not provide templates for solid surface cutouts. Please consult your installer for any additional information. **Note: Have tub at jobsite and measure carefully before cutting any decking material. Specifications are subject to change without notice. MTI is not responsible for any preparatory labor or materials.**

FILL-FLUSH® CLEANING SYSTEM

If your unit arrived with pre-installed valves, simply connect the hot and cold water lines to the valves. The tub will fill through the jets, eliminating the need for a filler spout. If the unit was purchased with the Fill-Flush System with no valves installed (“stubbed out”), you must first install the hot and cold valves either on tub or in decking surrounding tub. Connect valves together and tie into the brass Wilkins check valve (see photo). The air volume control/cleaning system port will need to be mounted in between or adjacent to the hot and cold handles. To install, cut the flex line, mount control on deck of tub or surrounding deck and use provided coupling to reassemble flex line. Re-glue flex line using PVC cement. **IMPORTANT:** the flex hose must be shortened to eliminate any dips in the line between the detergent dispenser and the whirlpool plumbing. The cleaning solution must be able to flow straight into the rigid PVC fitting at the tub. No filler spout is necessary. If a personal hand shower or atmospheric vacuum breaker will be installed, install the diverter or AVB prior to the Wilkins check valve. See diagram below. It is the responsibility of the installer to comply with local plumbing codes regarding back-flow prevention.



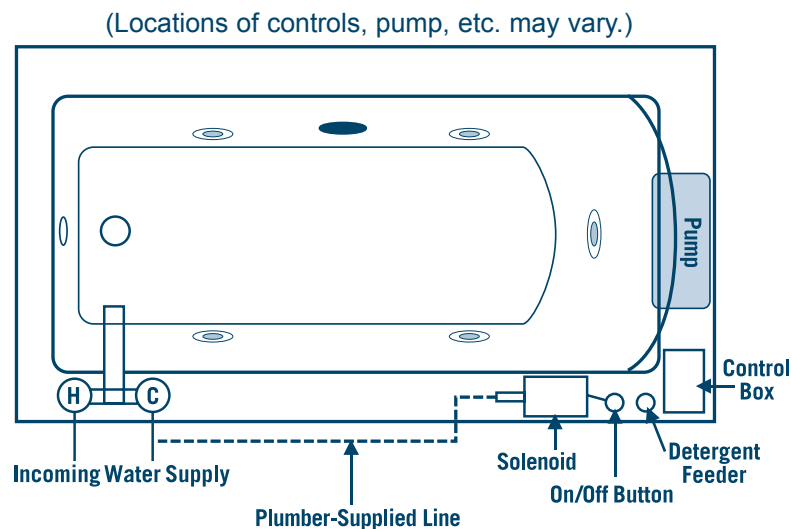
Wilkins Check Valve for Fill-Flush Stub Out.



Fill-Flush with Breda Diverter and Hand Shower.

SIMPLE TOUCH® CLEANING SYSTEM

Tee off incoming cold water supply line and tie into the pre-installed 1/2" copper line which connects to the solenoid valve. MTI recommends installing a shut-off valve between the water supply and solenoid valve for any future servicing. Plug control box into a 110VAC, GFCI protected outlet. The solenoid draws 1 amp of power. Maximum pressure to solenoid valve must not exceed 80 PSI. Do **not** connect the Solenoid to the hot water line! The warranty on the solenoid valve will be voided if connected to the hot water line.

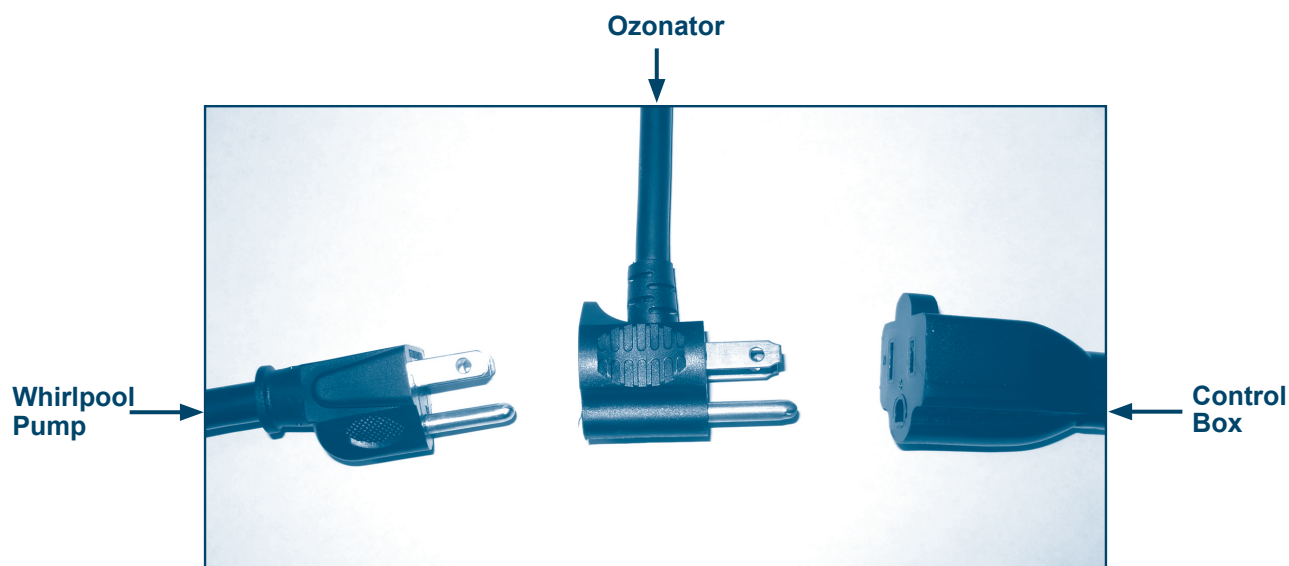


OZONATOR

The bath Ozonator is a safe, effective and natural bath sanitation system that works while the user is enjoying a whirlpool bath. When the whirlpool pump is activated, the Ozonator system automatically begins operating in unison. Ozone gas, made naturally from the oxygen we breathe, is generated and immediately mixed into the recirculating bath water. Ozone, the most powerful oxidizer and disinfectant, kills all known bacteria, viruses, cysts, yeasts, molds and mildew and helps to rid the water of disease-causing microorganisms while enjoying the whirlpool bath. The longer the whirlpool is running, the more Ozone is infused and the purer the bath water becomes. When the whirlpool pump is turned off, the ozone generator also turns off.

Although ozone has been proven to be quite effective in providing clean whirlpool bathing water, regular cleaning of the internal whirlpool plumbing system with a cleaner such as MTI's Fresh Wave should still be implemented. For optimum whirlpool plumbing system cleanliness and maintenance, MTI's Fill-Flush or Simple Touch whirlpool cleaning systems are recommended.

Installer: Simply plug the control box into a GFCI outlet. Ensure that the airline is connected to the on/off control. The pump/motor power cord plugs into the Ozonator piggyback plug, and the piggyback plug plugs into the control box. (See diagram)



VIRTUAL SPOUT

The High Flow Virtual Spout offers a very discreet alternative to the traditional filler spout. It is factory-installed on the inside wall of the tub and is “stubbed-out” under the tub with copper pipe so a plumber can tie the incoming water to the port.

Incoming water is connected to mixing valves mounted on the tub, surrounding deck or wall. Output from the mixing valves must then be tied into either a Wilkins Double-check Valve or Atmospheric Vent Valve, depending on local backflow prevention plumbing codes. If code requires an Atmospheric Vent Valve, you can use either a tub mounted or deck mounted Breda Valve or an In-wall Acme Valve. Output from any of these valves is then connected to the Virtual Spout. See specific installation instructions below.

NOTE: An In-wall Acme Atmospheric Vent Valve and Wilkins Double-check Valve is packaged with the Virtual Spout and is included in the price. If using a deck mounted Breda instead of an In-wall Valve, the Breda Valve must be purchased separately.

INSTALLATION INSTRUCTIONS WHEN USING THE TUB-MOUNTED OR DECK-MOUNTED BREDA VALVE (FIGURE 1)

- Before you begin, check and observe local plumbing codes.
- Install mixing valves on tub, surrounding deck or wall.
- Connect the mixed water line from the mixing valves to the bottom center inlet port on the Breda Atmospheric Vent Valve.
- The Breda Valve is pre-plumbed to direct the water flow to the filler port located on the inside wall of the tub.
- MTI recommends providing access to the Breda Valve for any future servicing.
- Check all plumbing for leaks and proper operation.

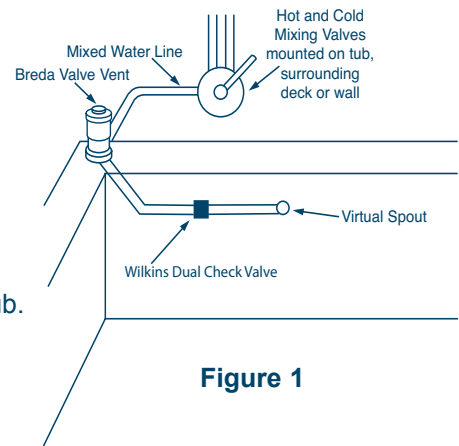


Figure 1

INSTALLATION INSTRUCTIONS WHEN USING THE ACME IN-WALL ATMOSPHERIC VACUUM BREAKER (FIGURE 2)

- Before you begin, check and observe local plumbing codes.
- Install mixing valves on tub, surrounding deck or wall.
- Connect mixed water line from the mixing valves to the In-Wall Atmospheric Vacuum Breaker.
- Make sure that the bottom of the Atmospheric Vacuum Breaker is a minimum of 6" above the top of the tub.
- Connect the output from the In-Wall Atmospheric Vacuum Breaker to the copper pipe leading to the Virtual Spout.
- Check all plumbing for leaks and proper operation.

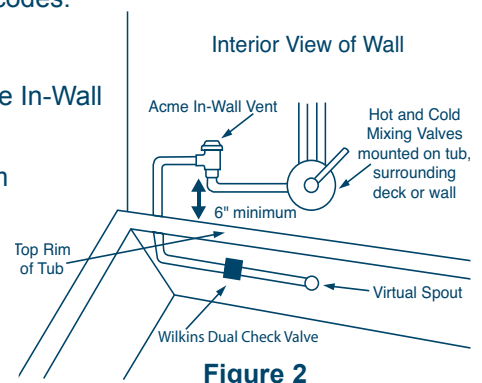


Figure 2

IMPORTANT NOTES FOR ACME IN-WALL UNIT

- The Atmospheric Vacuum Breaker is subject to normal maintenance and therefore must be installed in such a way that it will be accessible after the tub installation is complete.

- Since, under backsiphonage conditions, small amounts of water may be spilled through the air port, the Atmospheric Vacuum Breaker must be located and installed in such a way that the water will be captured and contained.

INSTALLATION INSTRUCTIONS WHEN USING THE WILKINS DUAL CHECK VALVE (FIGURE 3)

- Before you begin, check and observe local plumbing codes.
- Install mixing valves on tub, surrounding deck or wall.
- Connect mixed water line from the mixing valves to the Wilkins Dual Check Valve.
- Connect the output from the Wilkins Dual Check Valve to the copper pipe leading to the Virtual Spout.
- Check all plumbing for leaks and proper operation.

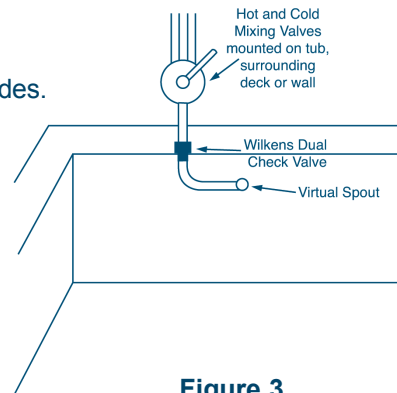


Figure 3

RADIANCE® INSTALLATION AND OPERATION

Each Radiance® system comes with an on/off touch pad and transformer box equipped with a 27" power cord. There are two heated zones for each Radiance system purchased. To install, simply plug the transformer box into a 110 V, GFCI protected outlet. The transformer box draws 5 amps.

To turn the system on, press the left button on the touch pad.

- The word "On" will appear briefly, then a "1-2" will appear. This indicates that both zones are heating.
- To turn on just one zone, press the right temperature button. A "1" will appear. This indicates that one zone is heating.
- Pressing the button again will change the readout to "2," indicating that only the second zone is heating.
- Press the temperature button a third time and "1-2" will appear, indicating that both zones are now heating.
- A small flashing light will continually circle the keypad, indicating that the system is on.
- Radiance is designed to be left on continually as the initial heating can take several hours. The system uses less energy than a standard light bulb.
- To turn the system off, press the left button once. The word "Off" will appear briefly before the keypad goes blank. The system will turn off should you experience a power surge or power failure.
- Must have access to transformer box for future servicing – test prior to installing.

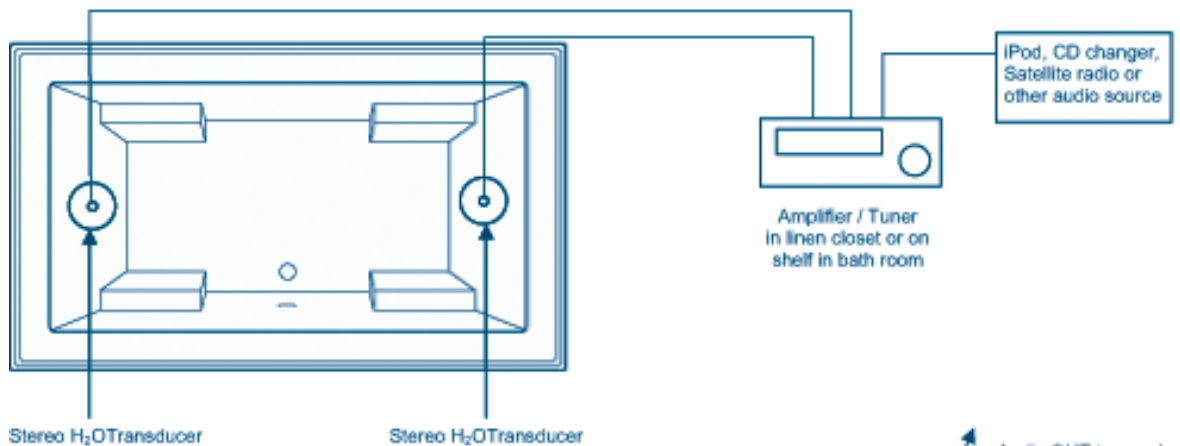
Important Note: Radiance can be installed in a freestanding tub. The standard installation locates the transformer between the walls of the tub. Alternatively, if requested, the transformer can be mounted externally, for installation underneath the floor, next to the bath or no more than 5 feet away. In this application, the transformer needs a small amount of air circulation. In either case, any wires or power cords from the tub need to be routed underneath the floor to the appropriate electrical supply. In all installation situations for both tubs and seated shower bases, access to the transformer needs to be provided. MTI is not responsible for obtaining access for warranty service.

STEREO H₂O® INSTALLATION SCHEMATICS

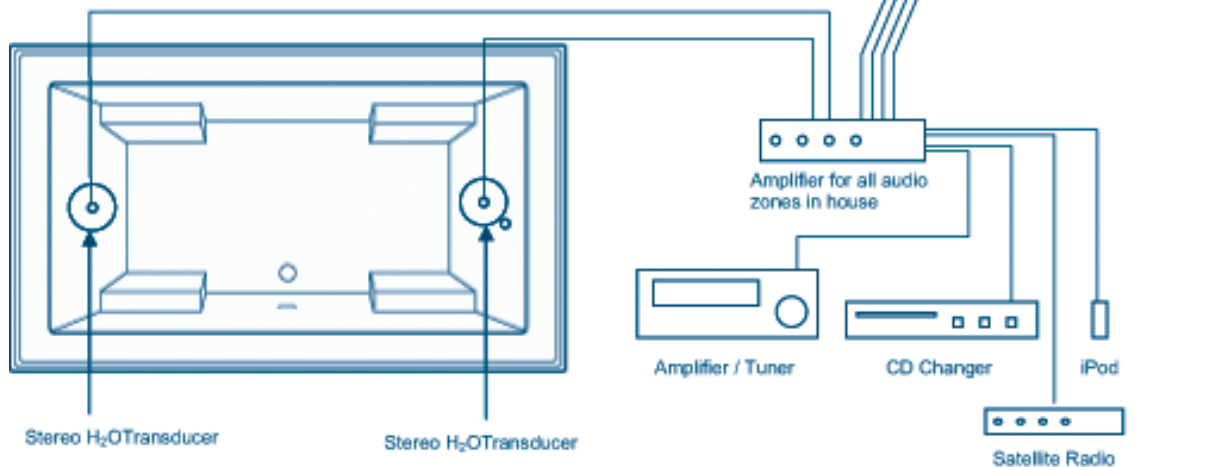
Stereo H₂O® offers flexibility of installation. The electronic transducers may be wired to a dedicated amplifier or integrated in a zoned home audio system. Below are 2 examples of how Stereo H₂O can be connected.

NOTE: The amplifier selected to power the electronic transducers should be rated between 150-250 Watts per channel at 4 ohms, or 75-125 Watts per channel at 8 ohms. Connect Red to “+” on amplifier. Black to “-” on amplifier.

Stereo H₂O Powered by Dedicated Amplifier in Bathroom



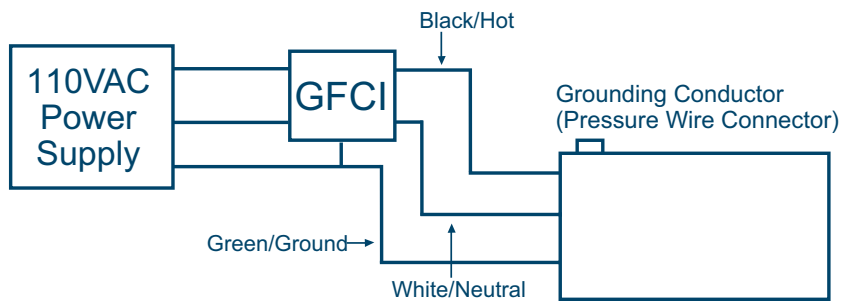
Stereo H₂O Integrated in Zoned Home Audio System



ELECTRICAL INSTALLATION INSTRUCTIONS

Warning - When installing or using electrical products, basic precautions should always be followed, including:

1. All MTI Ultra-Jet Hydrotherapy and System Aria Thermo Air Massage Systems require a separate 15 amp 110VAC circuit for each pump, heater or System Aria blower. 3 BHP pumps require a 20 amp circuit. Please see Electrical Specifications on page 16. Many options may be combined on a 20 amp circuit, as long as total amps of combined options are considered. This circuit must be connected to a supply that is protected by a ground fault circuit interrupter (GFCI). Such a GFCI should be provided by the installer and tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, there is a ground current flowing, indicating the possibility of electric shock. Do not use this unit. Disconnect the unit and have the problem corrected by a qualified service representative before using.
2. Every MTI Whirlpool is supplied with a 29" grounded plug to be plugged into a standard grounded receptacle. Do not remove this plug. If a wall mount switch is desired to control use of the unit, the switch should control the receptacle. Under no circumstance should you alter the provided supply cord.
3. **A pressure wire connector is supplied on the exterior of the pump to permit connection of a No.8AWG (8.4mm) solid copper bonding conductor between this unit and all other electrical equipment and exposed metal in the vicinity as needed to comply with local requirements.**



See Manufacturer's Wiring Diagram on Motor

! WARNING: Unauthorized modification may cause unsafe operation and poor performance of the whirlpool. Do not relocate the whirlpool pump, or make other modifications to the whirlpool system, as this could adversely affect the performance and safe operation of the whirlpool. MTI shall not be liable under its warranty or otherwise for personal injury or damage caused by any such unauthorized modification.

Electrical Specifications*

Low-Water Sensor	110 VAC	1 AMP
1500-Watt Inline Heater for Whirlpools	110 VAC	12.5 AMP
650-Watt Inline Heater for Whirlpools	110 VAC	5.3 AMP
1500-Watt Inline Recirculating Systems for Soakers and Air Baths	110 VAC	18 AMP
Chromatherapy LED Lighting or Mood Light	110 VAC	1 AMP
Ozone Bath Sanitation System	110 VAC	1 AMP
Pumps: • 1 bhp pump	110 VAC	5.9 AMP
• 1.25 bhp pump	110 VAC	7.2 AMP
• 2 bhp pump	110 VAC	9.7 AMP
• 3 bhp pump	110 VAC	13.5 AMP
• Waterfall pump	110 VAC	5.5 AMP
• 3.5 bhp 220-volt spa pump	220 VAC	8.5 AMP
Radiance®	110 VAC	5 AMP
Simple Touch Cleaning System	110 VAC	1 AMP
System Aria or Aria Elite Blower	110 VAC	8.8 AMP
Tsubo-Hydromassage Control Box	110 VAC	1 AMP

*Subject to change without notice. It is the responsibility of the installer to comply with all State and Local codes.

IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

WARNING—When using electrical products, basic precautions should always be followed, including these: **(Please read and follow all directions. Save these instructions.)**

1. **DANGER:** To reduce the risk of injury, do not allow children or infirmed persons to use this product unless they are supervised at all times.
2. This MTI Hydrotherapy unit is designed for use only as described in this manual. Do not use attachments not recommended by the manufacturer.
3. Do not drop or insert any object into any opening.
4. Do not operate this tub without the guard over the suction fitting (water intake). The guard is a safety device that reduces the potential hazard of hair or body entrapment. Keep hair and body away from suction guard when pump is running.
5. Anyone under doctor's care, pregnant, or whose health is poor should check with a physician before using any whirlpool bath system.
6. Recommended length of hydrotherapy bath is 10 minutes. However, if you become dizzy or nauseous or develop a headache, get out at once and cool down. Get medical attention if symptoms persist. Also check with your physician before using this system again.
7. Do not use immediately after eating or while under the influence of drugs or alcohol.
8. Before servicing unit, shut off all electrical outlets as more than one outlet may be energized.

KEYPAD AND REMOTE CONTROL FUNCTIONS

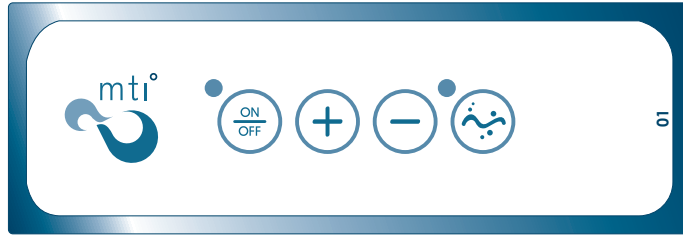
Keypads and functions will vary depending on specific model and/or options purchased. Use the photos on the next page to locate your model and simply follow the step by step instructions. Remote controls are purchased as a separate option; remote controls are not included as standard with any bath.

The batteries in the remote control are designed to last for approximately 15 years. The battery is not designed to be changed due to its water proof design. Please contact MTI's service department for service to your remote.

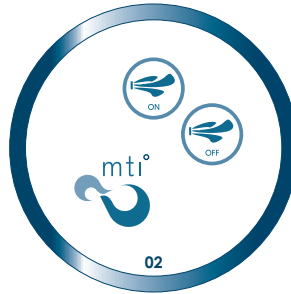
System keypads #1, 3, 4 and 6 allow the user to select a 24-hour purge cycle. The system will purge once every 24-hours at the time the cycle is first activated (for example, if you activate the purge cycle at 10:00am, the bath will purge each day at 10:00am).

Activate by pressing the “+” button on the keypad for 5 seconds. To deactivate, simply press the button again for 5 seconds and the normal purge cycle will resume.

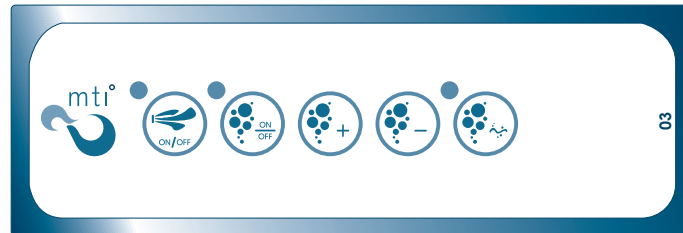
System #1



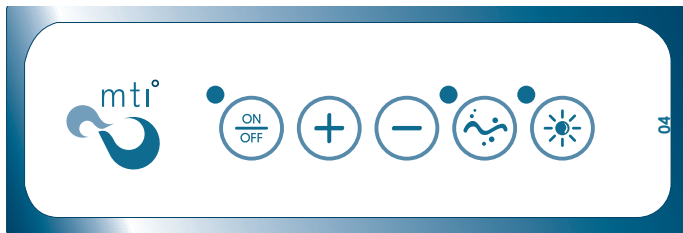
System #2



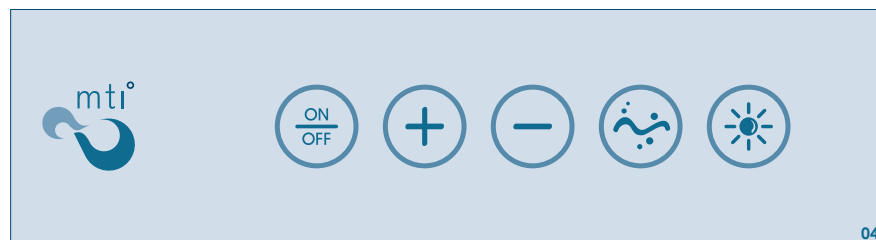
System #3



System #4

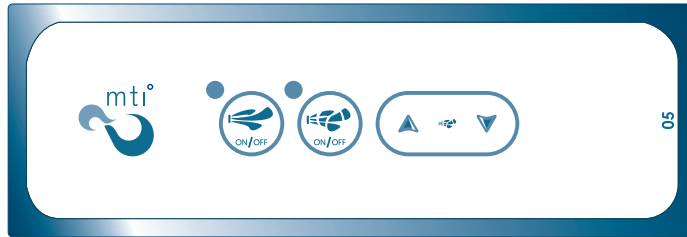


Classic Series
Tub Models

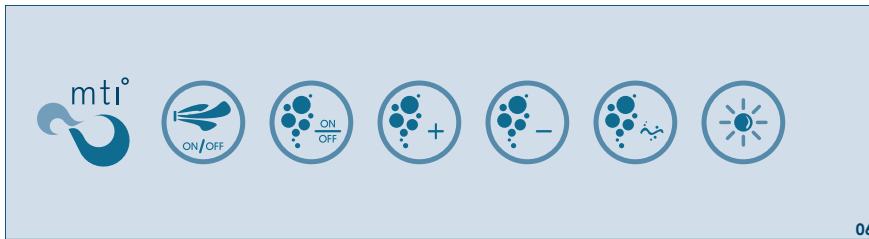


Designer Series
Tub Models

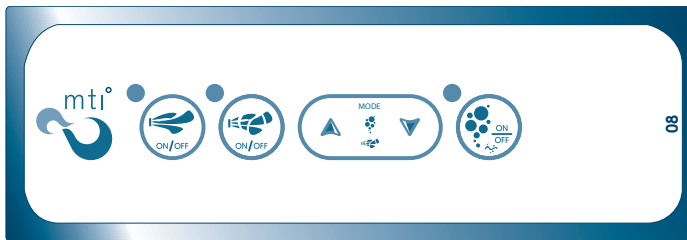
System #5



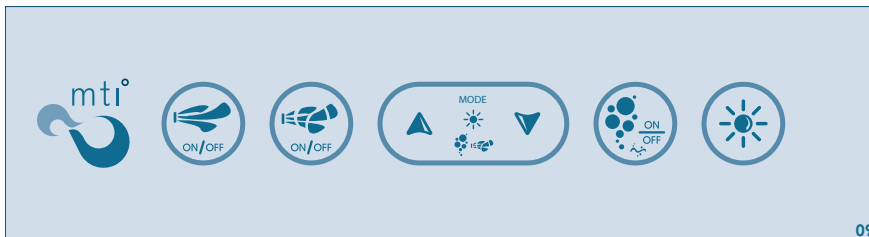
System #6



System #8



System #9



INDEPENDENT CHROMATHERAPY SYSTEM KEYPAD

FOR ALL CLASSIC AND DESIGNER SERIES TUBS WITHOUT LED LIGHT FUNCTION ON KEYPAD.

Note: The optional Mood Light comes equipped with a pneumatic on/off control.



FUNCTIONS



ON/OFF BUTTON:

1st Press: White light. LED light on (White is only available when the system is initially turned on).

2nd Press: Light off. LED light off.

Press the on/off button - Light must be on for any mode to function.



MODE BUTTON FUNCTIONS:

1st Press: Aqua-Blue-Green Cycle.

First cycle 1.5 seconds between color changes; then slows to 6 seconds between color changes.

2nd Press: Rainbow Cycle - Colors change from Aqua-Blue-Magenta-Red-Orange-Yellow-Green.

First cycle 1.5 seconds between color changes; then slows to 6 seconds between color changes.

3rd Press: Pressing the Mode button a third time will stop the system on the color displayed.

To change the color, use the up & down buttons to go through each color change in small increments. (Alternatively, you could turn the light off and start over.)



UP ARROW FUNCTIONS:

To Change the Light Color - Pressing the up arrow will allow the lights to change through the basic colors: Aqua, Blue, Magenta, Red, Orange, Yellow and Green.

When in the Rainbow Cycle - Press & hold to increase the cycle speed. Release pressure at the desired speed.

When in the Aqua-Blue-Green Cycle - Press & hold to increase the cycle speed. Release pressure at the desired speed.



DOWN ARROW FUNCTIONS:

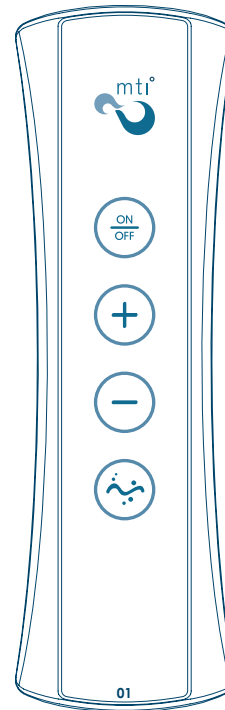
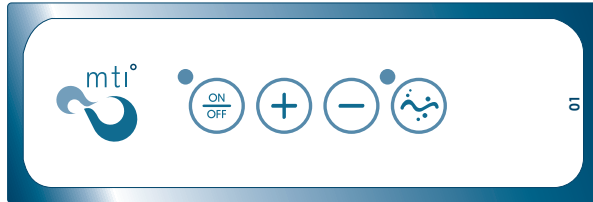
To Change the Light Color - Pressing the up arrow will allow the lights to change through the basic colors: Aqua, Blue, Magenta, Red, Orange, Yellow and Green.

When in the Rainbow Cycle - Press & hold to decrease the cycle speed. Release pressure at the desired speed.

When in the Aqua-Blue-Green Cycle - Press & hold to decrease the cycle speed. Release pressure at the desired speed.

#1 STANDARD AIR SYSTEM

Please Note: Numbered instructions depict buttons in photo as seen from left to right on keypad or from top to bottom on remote control.



FUNCTIONS



1- ON/OFF:

1st Press: The blower starts. LED light on.

2nd Press: The blower stops. LED light off.



2- BLOWER SPEED INCREASE +

Press & hold to increase the blower speed. Release pressure at the desired speed.

Note: The blower initially starts at half speed.



3- BLOWER SPEED DECREASE -

Press & hold to decrease the blower speed. Release pressure at the desired speed.



4- PULSATION MODES

1st Press: Wave - Speed will vary gradually from maximum to minimum. LED light on.

2nd Press: Pulse - Speed will go directly to minimum and then straight back to maximum. LED light will flash.

3rd Press: Returns to maximum speed. LED light off. Press button #3 to decrease blower speed.

AUTOMATICALLY STOPS AFTER 20 MINUTES



STANDARD DRYING CYCLE WITH WATER DETECTORS

The system is equipped with two sensors on the floor of the bath near the drain. Every time water is introduced to the bath and drained, either by showering, bathing or cleaning, the sensors will activate the drying cycle. The cycle will start approximately 7 minutes after the bath is drained and run for 1-2 minutes. The drying cycle will activate even when the System Aria has not been turned on. The blower LED blinks during the drying cycle countdown. This countdown cannot be cancelled. Any attempt to cancel this cycle only resets the countdown timer.

#2 STANDARD WHIRLPOOL



FUNCTIONS






-  **1- PUMP ON**
1st Press: The pump starts.
-  **2- PUMP OFF**
1st Press: The pump stops.

3 STANDARD WHIRLPOOL / AIR BATH COMBINATION

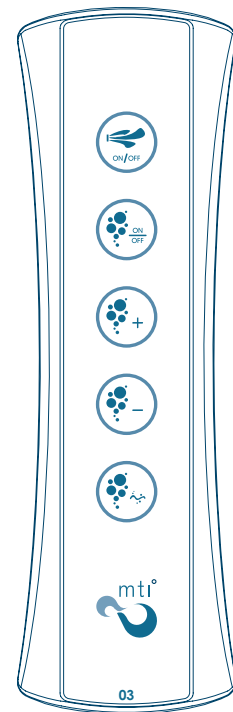
Please Note: Numbered instructions depict buttons in photo as seen from left to right on keypad or from top to bottom on remote control.



FUNCTIONS

-  **1- ON/OFF PUMP**
1st Press: The pump starts. Light on.
2nd Press: The pump stops. Light off.
-  **2- ON/OFF BLOWER**
1st Press: The blower starts. Light on.
2nd Press: The blower stops. Light off.
-  **3- BLOWER SPEED INCREASE +**
Press & hold to increase the blower speed. Release pressure at the desired speed.
Note: The blower initially starts at half speed.
-  **4- BLOWER SPEED DECREASE -**
Press & hold to decrease the blower speed. Release pressure at the desired speed.
-  **5- PULSATION MODES**
1st Press: **Wave** - Speed will vary gradually from maximum to minimum. LED light on.
2nd Press: **Pulse** - Speed will go directly to minimum and then straight back to maximum. LED light will flash.
3rd Press: Returns to maximum speed. LED light off. Press button #4 to decrease blower speed.

AUTOMATICALLY STOPS AFTER 20 MINUTES



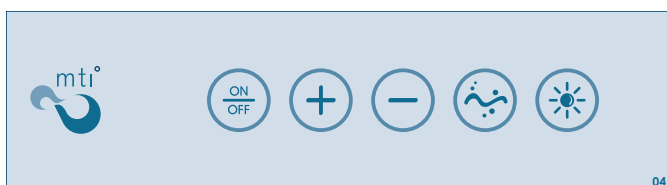
STANDARD DRYING CYCLE WITH WATER DETECTORS

The system is equipped with two sensors on the floor of the bath near the drain. Every time water is introduced to the bath and drained, either by showering, bathing or cleaning, the sensors will activate the drying cycle. The cycle will start approximately 7 minutes after the bath is drained and run for 1-2 minutes. The drying cycle will activate even when the System Aria has not been turned on. The blower LED blinks during the drying cycle countdown. This countdown cannot be cancelled. Any attempt to cancel this cycle only resets the countdown timer.

4 ARIA ELITE WITH LED LIGHT

Please Note: Numbered instructions depict buttons in photo as seen from left to right on keypad or from top to bottom on remote control.

4-Designer Series keypad



4-Classic Series keypad



FUNCTIONS



1- ON/OFF BLOWER

1st Press: The blower starts. Light on.

2nd Press: The blower stops. Light off.



2- BLOWER SPEED INCREASE +

Press & hold to increase the blower speed. Release pressure at the desired speed.

Note: The blower initially starts at half speed.



3- BLOWER SPEED DECREASE -

Press & hold to decrease the blower speed. Release pressure at the desired speed.



4- PULSATION MODES

1st Press: Wave - Speed will vary gradually from maximum to minimum. Light on.

2nd Press: Pulse - Speed will go directly to minimum and then straight back to maximum. Light will flash.

3rd Press: Returns to maximum speed. Light off. Press button #3 to decrease blower speed.



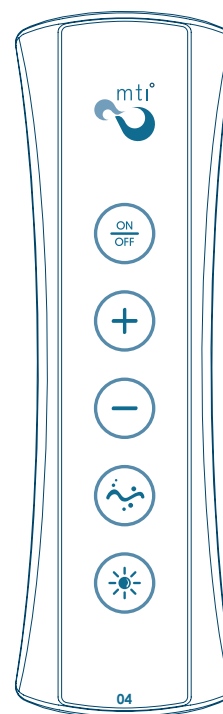
5- ON/OFF - LED LIGHT

1st Press: White light - Light on.

2nd Press: Light off.

3rd Press: Slow Rainbow Cycle - Colors change from aqua-blue-magenta-red-orange-yellow-green. First cycle 1.5 seconds between color changes; then slows to 6 seconds between color changes.

4th Press: Light off.



5th Press: Slow Aqua-Blue-Green Cycle. First cycle 1.5 seconds between color changes; then slows to 6 seconds between color changes.

6th Press: Light off.

7th Press: Fast Rainbow Cycle. 1 second between color changes. (magenta-red-orange-yellow-green-aqua-blue)

8th Press: Light off.

9th Press: Light red.

10th Press: Light off.

Pressing again and again will take you through the remaining colors: orange, yellow, green, aqua, blue and magenta. After all colors have been displayed, the system will return to the slow rainbow function.

Note: Press and hold for 3 seconds-light will change color every 4 seconds.

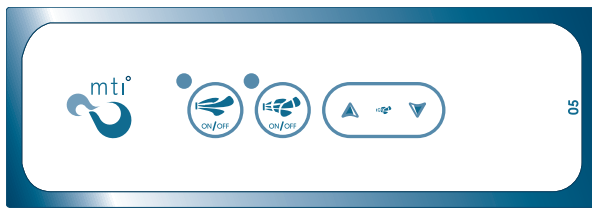
AUTOMATICALLY STOPS AFTER 20 MINUTES

STANDARD DRYING CYCLE WITH WATER DETECTORS

The system is equipped with two sensors on the floor of the bath near the drain. Every time water is introduced to the bath and drained, either by showering, bathing or cleaning, the sensors will activate the drying cycle. The cycle will start approximately 7 minutes after the bath is drained and run for 1-2 minutes. The drying cycle will activate even when the System Aria has not been turned on. The blower LED blinks during the drying cycle countdown. This countdown cannot be cancelled. Any attempt to cancel this cycle only resets the countdown timer.

5 ULTRA-THERAPY WHIRLPOOL

Please Note: Numbered instructions depict buttons in photo as seen from left to right.



FUNCTIONS



1- ON/OFF PUMP FOR POINT MASSAGE JETS

1st Press: The pump starts. LED light on.

2nd Press: The pump stops. LED light off.



2- ON/OFF PUMP FOR MICRO JETS

1st Press: The Tsubo pump starts. LED light on.

2nd Press: The Tsubo pump stops. LED light off.

Press & hold 3 seconds: The Tsubo sequential pulse mode starts. LED will flash. The sequential pulse mode automatically advances the system through the seven operational Tsubo modes every 10 seconds.



3 & 4- TSUBO MODE/SPEED CONTROL

Tsubo: Press to change the Tsubo pump through the seven different operational modes. Not available when the Tsubo is in sequential pulse mode.

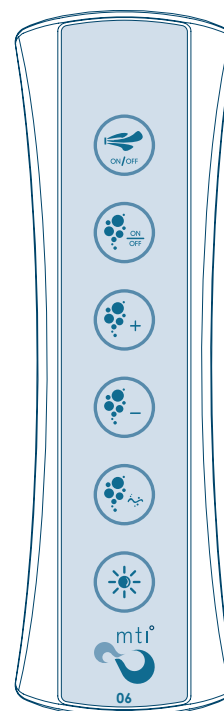
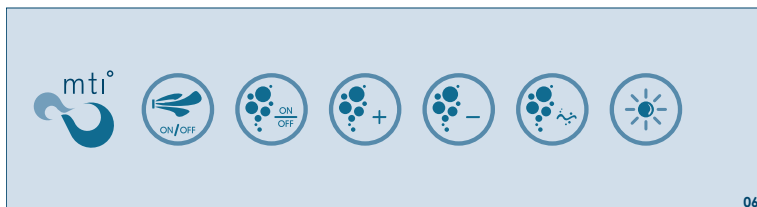
TSUBO LOCK-OUT TIMER

The user is allowed to operate the Tsubo mode for a total of 30 minutes (two 15-minute cycles) before a lock-out of the Tsubo mode occurs. This is designed to avoid tripping the thermal protector in the motor. The details of the lock-out are as follows:

- A total of two 15-minute cycles results in the Tsubo mode being locked out for two hours of cool down time. 1 minute of Tsubo mode = 4 minutes of cool down time (cumulative).
- When the lock-out function is active, the micro jets can still be operated at high speed, but the lock-out countdown is suspended while the micro jets are running. The required cooling off period resumes when the Tsubo pump is turned completely off.
- When the Tsubo pump is running, the user is notified that the lock-out condition has occurred by the fast flashing of the Tsubo button LED (#3) when the Tsubo mode button is pressed. The motor remains on high speed. The user can still control the pressure of the micro jets by using the volume control knob.
- The cumulative cool-down function allows for 1 additional minute of Tsubo Mode operation for every 4 minutes of cool-down time.
- The lock-out function is reset each time the power to the control is turned off, and then back on again.

6 STANDARD WHIRLPOOL / ARIA ELITE COMBINATION

Please Note: Numbered instructions depict buttons in photo as seen from left to right on keypad or from top to bottom on remote control.



FUNCTIONS



1- ON/OFF PUMP

1st Press: The pump starts. Light on.

2nd Press: The pump stops. Light off.



2- ON/OFF BLOWER

1st Press: The blower starts. Light on.

2nd Press: The blower stops. Light off.



3- BLOWER SPEED INCREASE +

Press & hold to increase the blower speed. Release pressure at the desired speed.

Note: The blower initially starts at half speed.



4- BLOWER SPEED DECREASE -

Press & hold to decrease the blower speed. Release pressure at the desired speed.



5- PULSATION MODES

1st Press: Wave - Speed will vary gradually from maximum to minimum. Light on.

2nd Press: Pulse - Speed will go directly to minimum and then straight back to maximum. Light will flash.

3rd Press: Returns to maximum speed. Press button #3 to decrease blower speed.



6- ON/OFF - LED LIGHT

1st Press: White light - Light on.

2nd Press: Light off.

3rd Press: Slow Rainbow Cycle - Colors change from aqua-blue-magenta-red-orange-yellow-green. First cycle 1.5 seconds between color changes; then slows to 6 seconds between color changes.

4th Press: Light off.

5th Press: Slow Aqua-Blue-Green Cycle

First cycle -1.5 seconds between color changes; then slows to 6 seconds between color changes.

6th Press: Light off.

7th Press: Fast Rainbow Cycle - 1 second between color changes. (magenta-red-orange-yellow-green-aqua-blue).

8th Press: Light off.

9th Press: Light red.

10th Press: Light off.

Pressing again and again will take you through the remaining colors: orange, yellow, green, aqua, red, blue and magenta. After all colors have been displayed, the system will return to the slow rainbow function.

Note: Press and hold for 3 seconds-light will change color every 4 seconds.

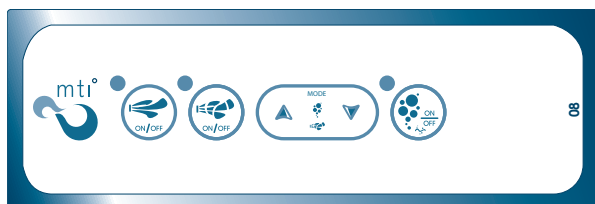
AUTOMATICALLY STOPS AFTER 20 MINUTES

STANDARD DRYING CYCLE WITH WATER DETECTORS

The system is equipped with two sensors on the floor of the bath near the drain. Every time water is introduced to the bath and drained, either by showering, bathing or cleaning, the sensors will activate the drying cycle. The cycle will start approximately 7 minutes after the bath is drained and run for 1-2 minutes. The drying cycle will activate even when the System Aria has not been turned on. The blower LED blinks during the drying cycle countdown. This countdown cannot be cancelled. Any attempt to cancel this cycle only resets the countdown timer.

8 ULTRA THERAPY WHIRLPOOL / SYSTEM ARIA COMBINATION

Please Note: Numbered instructions depict buttons in photo as seen from left to right on keypad or from top to bottom on remote control.



FUNCTIONS



1- ON/OFF PUMP FOR POINT MASSAGE JETS

1st Press: The pump starts. LED light on.

2nd Press: The pump stops. LED light off.



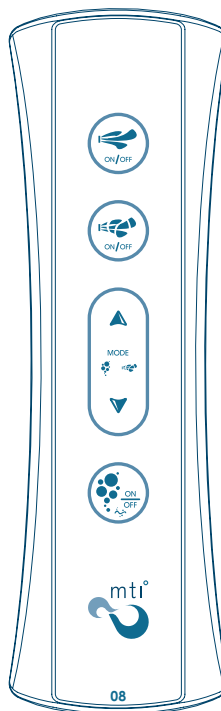
2- ON/OFF PUMP FOR MICRO JETS

1st Press: The Tsubo pump starts. LED light on.

Press & hold 1 second: The Tsubo pump stops. LED light off.

Press & hold 3 seconds: The Tsubo sequential pulse mode starts. LED will flash. The sequential pulse mode automatically advances the system through the seven operational Tsubo modes every 10 seconds.

Note: See top of page 24 for Tsubo mode descriptions.





3 & 4- MODE/SPEED CONTROL

Tsubo: Press to change the Tsubo pump through the seven different operational modes. Not available when the Tsubo is in sequential pulse mode.

Blower: Press & hold to increase or decrease the blower speed. Release pressure at the desired speed.

Note: The up and down arrows will operate the last function button activated. (Tsubo pump or blower.)



5- ON/OFF - BLOWER

1st Press: The blower starts. LED light on.

Press & Hold for 1 second - The blower stops. LED light off.

Press & Hold for 3 seconds - Wave - Speed will vary gradually from maximum to minimum. Light will flash quickly.

Press & Hold for 6 seconds - Pulse - Speed will go directly to minimum and then straight back to maximum. Light will flash slowly.

SEQUENTIAL PULSE MODE

The sequential pulse mode automatically advances the system through the seven operational Tsubo modes every 10 seconds, when selected. To select this mode, press and hold the Tsubo Mode button (#3) for 3 seconds. To cancel, press button #3 or #4 on the keypad.

TSUBO LOCK-OUT TIMER

The user is allowed to operate the Tsubo mode for a total of 30 minutes (two 15-minute cycles) before a lock-out of the Tsubo mode occurs. This is designed to avoid tripping the thermal protector in the motor. The details of the lockout are as follows:

- A total of two 15-minute cycles results in the Tsubo mode being locked out for two hours of cool-down time. 1 minute of Tsubo mode = 4 minutes of cool down time (cumulative).
- When the lock-out function is active, the micro jets can still be operated at high speed, but the lock-out countdown is suspended while the micro jets are running. The required cooling off period resumes when the Tsubo pump is turned completely off.
- When the Tsubo pump is running, the user is notified that the lock-out condition has occurred by the fast flashing of the Tsubo button LED (#3) when the Tsubo mode button is pressed. The motor remains on high speed. The user can still control the pressure of the micro jets by using the volume control knob.
- The cumulative cool-down function allows for 1 additional minute of Tsubo Mode operation for every 4 minutes of cool-down time.
- The lock-out function is reset each time the power to the control is turned off, and then back on again.

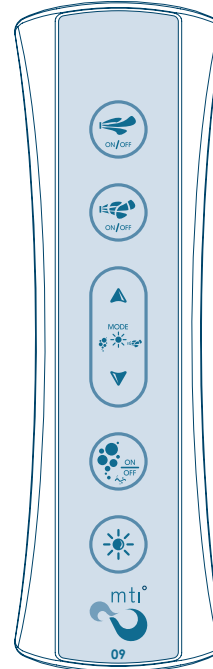
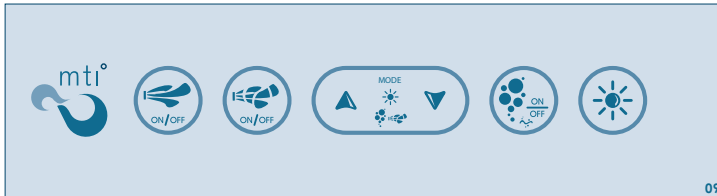
AUTOMATICALLY STOPS AFTER 20 MINUTES

STANDARD DRYING CYCLE WITH WATER DETECTORS

The system is equipped with two sensors on the floor of the bath near the drain. Every time water is introduced to the bath and drained, either by showering, bathing or cleaning, the sensors will activate the drying cycle. The cycle will start approximately 7 minutes after the bath is drained and will run for 1-2 minutes. The drying cycle will activate even when the System Aria has not been turned on. The blower LED blinks during the drying cycle countdown. This countdown cannot be cancelled. Any attempt to cancel this cycle only resets the countdown timer.

9 ULTRA THERAPY WHIRLPOOL / ARIA ELITE / LED LIGHT COMBINATION

Please Note: Numbered instructions depict buttons in photo as seen from left to right on keypad or from top to bottom on remote control.



FUNCTIONS



1- ON/OFF PUMP - LARGE JETS: POINT-MASSAGE / ROTARY

1st Press: The pump starts. Light on.

2nd Press: The pump stops. Light off.



2- ON/OFF - TSUBO MICRO JETS

1st Press: The Tsubo pump starts. Light on.

Press & hold 1 second: The Tsubo pump stops. Light off.

Press & hold 3 seconds: The Tsubo pump sequential pulse mode starts. Light flashes. The sequential pulse mode automatically advances the system through the seven operational Tsubo modes every 10 seconds.

Note: See top of page 24 for Tsubo mode descriptions.



3 & 4- TSUBO MODE / BLOWER SPEED /COLOR VARIATION + /-

Note: The up and down arrows activate the last function button pressed (Tsubo, Blower or LED Light).

TSUBO-MICRO JETS: Press to change the Tsubo mode. Not available when the Tsubo is in sequential pulse mode.

BLOWER: Press & hold the up or down arrow to increase or decrease the blower speed. Release pressure at the desired speed.

LED LIGHT: Press to change the light color. Press & hold to increase or decrease the cycle speed when in the Rainbow or Aqua-Blue-green cycle.



5- ON/OFF - BLOWER

1st Press: The blower starts. Light on.

Press & Hold 1 second. The blower stops. Light off.

Press & Hold 3 seconds. Wave - Speed will vary gradually from maximum to minimum. Light will flash quickly.

Press & Hold 6 seconds. Pulse - Speed will go directly to minimum and then straight back to maximum. Light will flash slowly.

Use up and down arrows to change the blower speed.



6- ON/OFF - LIGHT

1st Press: LED lights to white. Light on. Use the up and down arrows to change the fixed color of the light, rainbow or aqua, blue, green cycles.

Press & hold 1 second. Light off.

Press & hold 3 seconds: Slow Rainbow Cycle- Colors change from Aqua-Blue-Magenta-Red-Orange-Yellow-Green.

First cycle 1.5 seconds between color changes; then slows to 6 seconds between color changes.

Press & hold 6 seconds: Slow Aqua-Blue-Green Cycle.

First cycle 1.5 seconds between color changes; then slows to 6 seconds between color changes.

AUTOMATICALLY STOPS AFTER 20 MINUTES

STANDARD DRYING CYCLE WITH WATER DETECTORS

The system is equipped with two sensors on the floor of the bath near the drain. Every time water is introduced to the bath and drained, either by showering, bathing or cleaning, the sensors will activate the drying cycle. The cycle will start approximately 7 minutes after the bath is drained and run for 1-2 minutes. The drying cycle will activate even when the System Aria has not been turned on. The blower LED blinks during the drying cycle countdown. This countdown cannot be cancelled. Any attempt to cancel this cycle only resets the countdown timer.

TSUBO LOCK-OUT TIMER

The user is allowed to operate the Tsubo mode for a total of 30 minutes (two 15-minute cycles) before a lock-out of the Tsubo mode occurs. This is designed to avoid tripping the thermal protector in the motor. The details of the lock-out are as follows:

- A total of two 15-minute cycles results in the Tsubo mode being locked out for two hours of cool-down time. 1 minute of Tsubo mode = 4 minutes of cool down time (cumulative).
- When the lock-out function is active, the micro jets can still be operated at high speed, but the lock-out countdown is suspended while the micro jets are running. The required cooling off period resumes when the Tsubo pump is turned completely off.
- When the Tsubo pump is running, the user is notified that the lock-out condition has occurred by the fast flashing of the Tsubo button LED (#3) when the Tsubo mode button is pressed. The motor remains on high speed. The user can still control the pressure of the micro jets by using the volume control knob.
- The cumulative cool-down function allows for 1 additional minute of Tsubo Mode operation for every 4 minutes of cool-down time.
- The lock-out function is reset each time the power to the control is turned off, and then back on again.

WHIRLPOOL OPERATING INSTRUCTIONS

STANDARD EQUIPMENT

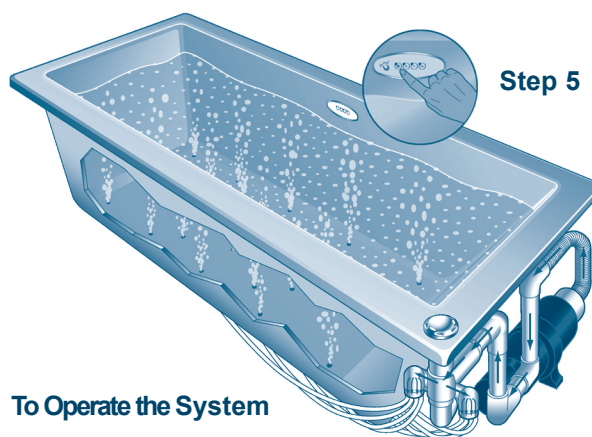
1. MTI Whirlpool units are equipped with a factory installed on/off device. This eliminates the need for an external switch, although one may have been provided by your installer. Check with your installer for location of switch. Starting motor with no water in the tub could result in damage to the pump and internal seals and could void your warranty.
2. Fill tub approximately 1" above highest jet. Do not start pump until tub has been filled to specified level.
3. When you are ready to use the hydrotherapy system, activate the on/off device on the deck of the tub. See pages 18-29 for control photos and functions for your particular model.
4. Adjust the amount of air mixed with the water using the master air volume control located on the deck or side-wall of the tub. Rotate the control counter-clockwise to increase the amount of air and pressure in the system.
5. All jets on MTI Classic and Designer Series whirlpools are designed to operate individually.

Open or close jets by either pushing and pulling the nozzle or twisting the jet nozzle, depending on jet style.

6. Hydrotherapy jets can also be adjusted directionally.
7. If your tub is equipped with 4 or more micro-jets, it will also be equipped with a volume control diverter valve to adjust pressure and shut off the micro jets. (See photo on page 31)
8. Bath oils or other petroleum based products are not recommended for use in MTI Whirlpools. These products have been shown to increase the possibility of bacteria growth within the system.
9. Bubble bath should only be used sparingly. The action of the system will greatly increase the amount of bubbles. The system must also be cleaned after each use as described in "Cleaning Instructions."
10. If your tub is equipped with an inline heater, the heater will come on each time the point massage or large jets are operating. There is no external on/off device. The inline heater is not designed to heat cold water; it is designed to help maintain the temperature of the bath. The heater has a pre-set, non-adjustable thermostat set to 102°F.

AROMATHERAPY SYSTEM (Available in most air bath systems.)

MTI's aromatherapy system is easy to use, flexible and effective. A small deck-mounted well houses a removable canister which contains the user's fragrance of choice. When the thermo-air massage system is activated, the warm air produced by the blower passes through the canister. The scent is then carried by millions of air bubbles through the water to the surface of the bath water, where the bubbles pop and release the aroma. The scent fills the air, not the bath. Of course, if preferred, bath salts and oils may be added directly to MTI air bath water. Bath oils are not recommended for use with any whirlpool system. The design of MTI's aromatherapy system allows the use of a wide variety of pure essential oils, both singular fragrances as well as blends.



Note: Use only the small felt pads like the one originally provided. Do NOT saturate the pad; 4-5 drops of essential oil is sufficient to produce the desired effect. Do NOT use more than one pad at a time. Using more than recommended may cause permanent damage to the tub components. Do NOT remove aromatherapy cap when tub is in use.

To Operate the System



Step 1



Step 2



Step 3



Step 4

OPTIONAL EQUIPMENT

INLINE HEATER

The factory installed inline heater used on MTI whirlpool systems is designed to maintain the temperature of the water during the hydrotherapy bath. The heater is not designed to heat cold water. The heater will activate with the pump with no external switch required. The thermostat is pre-set at 102°F. The heater must be plugged into a 110 VAC, 15 AMP, GFCI protected outlet.

HEATSOAK

The inline heating system for soaking tubs and air baths is manually activated by an on/off device. This system gently recirculates the bath water through the inline heater, with negligible disturbance to the water. The heatsoak system requires a dedicated 110 VAC, 20 AMP, GFCI protected outlet.

Both the pump and inline heater must be plugged in for system to operate properly.

WATER LEVEL SENSOR AND TIMER

The Water Level Sensor control will prevent the pump from operating until the water level reaches 1 - 2 inches above the highest jet. It runs on a timer then automatically shuts off. If the water level falls while the pump is operating, the unit will automatically shut off. (Note: Classic series timer runs on a 10 minute timer and Designer series runs on a 20 minute timer and then automatically shuts off.)

MOOD LIGHT

The optional Mood Light comes with a clear lens with blue and red cover lenses. To operate the light, depress the on/off button located on the deck of the tub. Use the provided tool to change the lens covers from clear to red or blue.

CHROMATHERAPY

Chromatherapy is provided by underwater digital LED lighting and produces fully saturated color and color changing effects. See pages 18-29 for controls and functions. Controls will vary depending on tub model.

ROTARY JETS

This jet offers a softer hydrotherapy massage. It has three openings instead of one, and has a spinning action when in operation. Open or close jets by either pushing and pulling or twisting the nozzle, depending on jet style.

MICRO-JET CLUSTER PACKAGE AND NECK JET PILLOW

Micro-jets provide pinpointed hydrotherapy, typically to the back or neck. To adjust or shut off the micro-jets' water flow, turn the volume control diverter valve. Depending on the number of micro-jets, you may have one or two volume control diverter valves, each controlling one set of micro-jets. The Neck Jet pillow produce an incomparable massage for the neck. When used with a whirlpool system that already has micro jets, the pillow uses the top 2 micro-jets of the cluster and is operated by the same control.

Important information for MTI Classic and Designer Series whirlpool baths equipped with the MTI micro-jet package or Neck Jet Pillow option: This specialty massage therapy system must be in the off position under the following conditions:

1. When the water in the tub is below the highest micro-jet, the pillow is above the water line.
2. When you want to operate the whirlpool's lower jets only.
3. When operating the Fill-Flush, or Simple Touch System.



Turn the volume control diverter valve to adjust air flow and shut off the micro-jets.

If your tub is equipped with more than four micro-jets, they may be operated by their own pump, on/off control & air-volume control. See pages 18-29 for photos and functions of keypads.

NOTE: When ordering a Neck Jet Pillow with a whirlpool system that does not already include micro-jets, a pump upgrade may be required. Please call to confirm before ordering.

FILL-FLUSH SYSTEM OPERATING INSTRUCTIONS

THE WHIRLPOOL SYSTEM SHOULD BE CLEANED PERIODICALLY. MTI WHIRLPOOLS RECOMMENDS CLEANING AT LEAST ONCE A MONTH, NOT TO EXCEED 90 DAYS BETWEEN CLEANINGS. ALWAYS USE CAUTION WHEN USING CHLORINE-BASED PRODUCTS IN CONJUNCTION WITH OTHER CLEANING PRODUCTS. THE POSSIBILITY OF HARMFUL FUMES COULD RESULT. ALWAYS RINSE THOROUGHLY.

DO NOT LEAVE THE UNIT UNATTENDED DURING FILL-FLUSH OPERATIONS.

NOTE: If your tub is not equipped with the optional Fill-Flush system, please refer to page 34 for cleaning instructions.

TO FILL THE SYSTEM:

1. Make sure all jets are in the OPEN position by pulling the jet nozzle out or twisting the outer ring (depending on jet style).
2. Turn on hot and cold water to suit. Continue filling the tub to the desired level (at least 1" above the highest jet) and enjoy your bath. **Don't forget to turn off the water!**

TO FLUSH THE SYSTEM:

1. After using the whirlpool system, drain tub of all water. CLOSE all of the jet nozzles by simply pushing the jet nozzle in or twisting the jet nozzle (depending on jet style).
2. Unscrew the dispenser cap (generally located between the hot and cold handles). Add **one** of the following: 2 ounces of MTI Fresh Wave Cleaner, 1 cup vinegar **or** several drops of a low sudsing detergent mixed with 1 cup warm water. Replace cap and turn on hot and cold water. **Do not turn on pump.** This allows water and detergent to circulate through the air line, water line and pump. Let run for 2-3 minutes. Residue will be flushed out the suction intake and down the drain. **NOTE:** It is normal for some water to be coming out of the jets as well as the area around the jet nozzle.
3. Turn off water, open the jets and allow remaining water to flow out of the jets.

BASIC CLEANING INSTRUCTIONS FOR SINGLE PUMP SYSTEMS WITH FULL-SIZE JETS AND MICRO-JET COMBINATIONS USING THE FILL-FLUSH SYSTEM.

1. Close all full-size jets by pushing in nozzle or turning the jet nozzle (depending on jet design).
2. Close all deck mounted or wall mounted micro-jet control valves.
3. Open cleaning filler cap and pour in cleaning solution.
4. Turn on water. Water mixes with cleaning solution and flows from air line to water line, through pump, out the suction and down the drain.
5. Allow water to run for three minutes.
6. Open all deck mounted or wall mounted micro-jet control valves.
7. Allow water to run for one more minute.
8. Open all full-size jets and allow water to run for 30 seconds.
9. Turn off water.

The purpose of the Fill-Flush System is to prevent the build-up of soap residue, body oils, skin deposits, etc. in the plumbing lines of the whirlpool systems. Only the Fill-Flush system allows water to circulate through the water line, air line, point-massage jets, pump, suction line and finally, down the drain.

Enjoy your freshly cleaned whirlpool tub.



Fill-Flush®
Simple Touch®

SIMPLE TOUCH CLEANING SYSTEM OPERATING INSTRUCTIONS

1. After bathing, drain the bath as usual, leaving the drain open.
2. Close all point-massage and rotary jets.
3. Remove detergent dispenser cap.
4. Add **one** of the following into the detergent dispenser: 2 oz. of MTI Fresh Wave Cleaner, 1 cup of vinegar **or** a few drops of a low-sudsing liquid detergent mixed with 1 cup warm water.
5. Replace the detergent dispenser cap.
6. Depress the on/off button, which activates the Simple Touch Cleaning System.
7. The Simple Touch Cleaning System will run for three minutes, circulating water and detergent through the air line, water line, and pump. Residue will then be flushed out the suction and down the drain. The cleaning process will automatically shut off, leaving your whirlpool bath plumbing system sparkling clean.
8. After the system shuts off, open the jets.

BASIC CLEANING INSTRUCTIONS FOR SINGLE PUMP SYSTEMS WITH FULL-SIZE JETS AND MICRO-JET COMBINATIONS USING THE SIMPLE TOUCH SYSTEM.

1. Close all full-size jets by pushing in nozzle or turning face plate (depending on jet design).
2. Close all deck mounted or wall mounted micro-jet control valves.
3. Open cleaning filler cap and pour in cleaning solution.
4. Push Simple Touch button to activate. Water mixes with cleaning solution and flows from air line to water line, through pump, out the suction and down the drain.
5. The system will run for approximately three minutes.
6. Open all deck mounted or wall mounted micro-jet control valves.
7. Again, push Simple Touch button to activate. Allow water to flow for approximately two minutes.
8. Open all full-size jets and allow water to run for the remainder of the Simple Touch three minute cycle.

CLEANING INSTRUCTIONS FOR WHIRLPOOL SYSTEMS NOT EQUIPPED WITH THE OPTIONAL FILL-FLUSH OR SIMPLE TOUCH CLEANING SYSTEMS

THE WHIRLPOOL SYSTEM SHOULD BE CLEANED PERIODICALLY. MTI WHIRLPOOLS RECOMMENDS CLEANING AT LEAST ONCE A MONTH, NOT TO EXCEED 90 DAYS BETWEEN CLEANINGS. ALWAYS USE CAUTION WHEN USING CHLORINE-BASED PRODUCTS IN CONJUNCTION WITH OTHER CLEANING PRODUCTS. THE POSSIBILITY OF HARMFUL FUMES COULD RESULT. ALWAYS RINSE THOROUGHLY.

Fill tub with warm water 2" above the highest jet and add **one** of the following to the bath water: 1/4 cup of MTI Whirlpools' Fresh Wave Cleaning Solution, 1 cup vinegar, **or** several drops of a low sudsing detergent mixed with 1 cup warm water. Turn the system on for five minutes then let stand for an additional 15 minutes. Drain the tub and refill with cold water. Restart the system for 10 minutes then drain. If standard cleaning does not remove stubborn build-up or tough stains, your jets can be easily removed for more thorough cleaning. MTI will provide a "Jet Removal Tool" at no charge. Soak jets overnight in a pan filled with warm water and mild dish soap, and scrub lightly with a soft bristled brush or place on top rack in dishwasher, being careful to remove before drying cycle starts. Whirlpools with the optional Fill-Flush System or Simple Touch System should refer to page 32 and 33 of this booklet for operating and cleaning instructions.

CLEANING INSTRUCTIONS FOR THE ACRYLIC SHELL

The cross-linked cast acrylic surface of all MTI whirlpools, air baths and soaking baths is among the glossiest, highest quality surfaces available. Its hard, non-porous surface prevents dirt from accumulating and resists stains better than other materials. With normal use, cast acrylic will retain its beauty with only a minimal amount of care. To maintain the high gloss, elegant look of the cast acrylic surface, follow these simple steps:

1. Use common household, **non-abrasive** cleaners for most cleaning jobs (for example: a mild dishwashing detergent such as Ivory Liquid). Follow manufacturer's directions and precautions. Rinse well and dry with a soft, clean cloth. Be sure to check the product label. Some products, although not containing abrasives, **WILL** damage the acrylic over time. Never use any type of "scrubbing bubbles" on your acrylic product unless it specifically states that it is safe for use on acrylic!
2. Never use abrasive cleansers. If any product feels gritty when rubbed between your fingers, do not use on the acrylic surface or controls as permanent damage will occur.
3. Do not allow your cast acrylic surface to come into contact with nail polish, nail polish remover, Wintergreen oil, dry cleaning solution, lacquer thinners, gasoline, pine oil, etc.
4. Remove dust and dry dirt with a soft, damp cloth.
5. Clean grease, oil, paint or ink stains with isopropyl (rubbing) alcohol. Dry with a clean, soft cloth.
6. Avoid using razor blades or other sharp objects that might scratch the surface. Small scratches can be removed by applying a thin coat of automotive paste wax and buffing lightly with a clean cloth. For deeper scratches, sand the surface lightly with a 400 grit "wet or dry" paper and buff with a fine grit buffing compound.

MTI strongly recommends a professional acrylic repair person for deep scratches or chips.

TROUBLESHOOTING

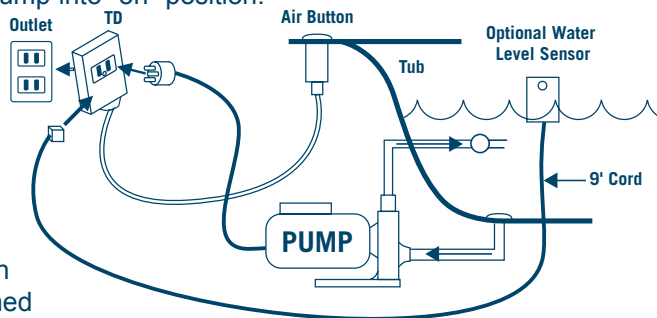
Please use the following guidelines if you encounter a problem with an MTI product. These are not covered under warranty but are simple repairs.

PUMP WILL NOT RUN:

1. Check electrical connection. Test outlet for power with a lamp or hair dryer to ensure power to box. Be sure pump is plugged in. Check to be certain breaker is not tripped.
2. On units equipped with a push style on/off device, check pneumatic air line. When the on-off button is pressed, a distinct "click" should be heard from the pump. If no click is heard, the air line has been disconnected. The air line is 1/8" clear or red tubing that connects the bottom of the on-off button to the electrical end of the pump. To correct this, re-install tubing to fittings as in drawing below. If your tub is equipped with an electronic switch (button turns to "on" or "off" position), check to ensure connection to pump is secure.
3. If the tub is equipped with the **Low Water Sensor/Timer**, the pump will run when the water level is 1" above the highest jets.

If the tub is equipped with the **Low Water Sensor/Timer**, and the pump does not run when the water is 1" above the highest jets:

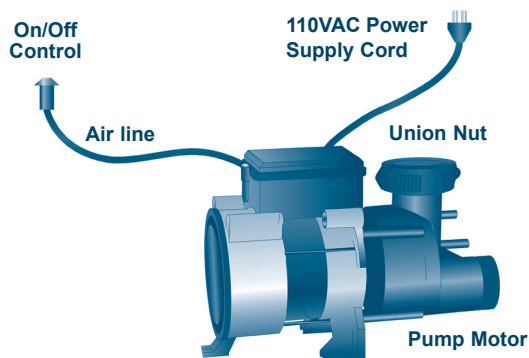
- A. Make sure the pump is working by unplugging the TD Jettub Switch Box from outlet and plugging pump directly into outlet.
- B. Disconnect clear air line from TD Jettub Switch Box and plug into the nipple on the pump.
- C. Turn on pump with the on/off button located on the deck of tub. With pump running, unplug from outlet to engage pump into "on" position.
- D. Plug clear air line and pump into TD Jettub Switch Box and plug Box into outlet.
- E. Fill tub and push on/off button on tub to operate pump.
- F. If pump still does not operate, adjust sensitivity dial located on Water Level Sensor Box attached to inside of tub. Red light will come on when sensor is working.



Note: The controls and mechanisms for each MTI custom built bath will vary. For assistance with the specific operation of your bath, please have your serial / registration number available and call 800-783-8827.

WATER LEAK NEAR PUMP:

1. Tighten large union nut rings on PVC lines to pump. These may have loosened during shipment or installation. These need to be hand tight only.
2. Remove both unions and check the rubber "O" rings for proper seating. Replace unions hand tight.



LITTLE OR NO ACTION FROM JETS:

1. Open air volume control to allow air to mix with water.
2. Check each jet to assure that they are all set to the open position by either pulling or turning the nozzle (depending on jet style.) **NOTE:** Each jet may be shut off individually.

FACTORY INSTALLED HEATER NOT WORKING:

1. The pump and heater are equipped to plug into a GFCI outlet. Be sure **both** are properly plugged in. The heater has an internal switch to operate only when the pump is in operation. There is no external user controlled switch to operate the inline heater.
2. The heater installed on your MTI whirlpool is designed to maintain the water temperature at 102°F. It will not effectively raise the temperature of cold water.
3. Check that the indicator light is on when pump is running.

RUST OR GREASY SUBSTANCE IN NEW TUB:

1. This condition results from sediments in the water heater of the home. Drain the water heater according to manufacturer's instructions and clean the whirlpool system as described in "Cleaning Instructions."

ACCENT/LED LIGHT NOT WORKING:

1. Ensure bulb is secure in housing.
2. Check to see that clear air line is connected to the bottom of the on/off button for the light as well as the electronic control box.
3. Make sure power cord is plugged into working receptacle.
4. If LED light operates from an independent, round keypad, check connections at keypad and electronic control box.
5. If LED light has function button on the keypad, check bulb housing to ensure bulb is not disconnected. Check connections at keypad and electronic control box.

TSUBO-HYDROMASSAGE NOT WORKING:

1. Make sure pump is plugged into control box.
2. Make sure on/off control/keypad wire is plugged into control box.
3. Make sure power cord is plugged into working receptacle. Check receptacle with a hair dryer or small lamp.
4. Check breaker.

SYSTEM ARIA NOT WORKING:

1. Verify the electronic touch control is connected to the blower.
2. Make sure the blower is plugged into a working receptacle. Check receptacle with hair dryer or small lamp.
3. Check to see if the ground fault circuit has been interrupted. Reset if necessary.
4. Ensure sensor wires from each side of the drain are connected to the blower. Do not attempt to disconnect the sensor wires from the bottom of the bath.

SYSTEM ARIA RUNS, BUT NO AIR COMES THROUGH JETS:

1. Verify that the grey air hose from the manifold to the blower is properly connected. If necessary, reconnect and tighten clamps.

AIR OUTLETS OF JET HEADS ARE OBSTRUCTED:

1. If soap or other residues obstruct the air jets, fill the tub with warm water, use a soft toothbrush to gently brush the air jets. Turn the system on and off several times. If the air jets are still clogged, please call MTI Technical Service at 800.783.8827 for assistance.

THE AIR SEEMS COOL:

1. To verify the operation of the heated blower, fill the tub to normal working level and operate the blower on high turbulence for five minutes. Carefully feel the flexible hose where it connects to the blower. The hose and immediate area should feel warm to the touch. If not, please contact MTI Technical Service for assistance.
 2. If your tub is installed against an outside wall(s), it is recommended to adequately insulate the wall(s) to minimize heat loss. Do not insulate the blower itself; the blower needs sufficient air space surrounding it for proper circulation and operation.
 3. Skin-sensitive people might experience the so-called "cold air effect," which is caused by the sensation of air bubbles running along the wet skin and providing the bather with a shivering sensation. Move your body slightly away from the closest jet to stop the sensation. **Note: Even if the air entering the tub was hot enough to burn the skin, this shivering effect would still persist. The heated blower is not designed to heat your bath water, just to preheat the incoming air.**
-

ATTENTION INSTALLER!

Access must be provided to **each** pump, air blower and/or electrical equipment on your tub. The access panel(s) must have a minimum size of 16" x 14" for installation and future servicing of the equipment.

MTI Whirlpools, Inc. will not authorize any service unless **clear** access is available. Access from a crawlspace or incomplete access to all equipment may result in warranty claims being denied.

LIFETIME LIMITED WARRANTY

MTI WHIRLPOOL, AIR TUB, SOAKING TUB & SPA RESIDENTIAL WARRANTY

This warranty is effective for all MTI acrylic whirlpools, air tubs, soaking tubs, and spas manufactured after January 1, 2006, and is in lieu of all other warranties. MTI Whirlpools (MTI) provides a limited warranty on its products for use in the continental United States of America* to original purchasers for personal or single family use. Warranty coverage begins on date of purchase (regardless of installation date).

Whirlpool, Soaking, & Air Tub Warranty: MTI warrants our Designer Series and Classic Series whirlpool and soaking tub products for life. The non pro-rated warranty covers the tub shell and most standard factory-installed components, including pump, motor and standard plumbing against defects in material or workmanship. All other components, even those included in MTI packages are subject to the MTI Two-Year parts warranty described below. Components covered for parts only include, but are not limited to, on/off controls, transformer boxes, neck jet pillows, low water sensors, solenoid valves & LED lights. MTI warrants all Classic and Designer Series air tubs with System Aria thermo-air massage system for life. The warranty covers the tub shell and blower. All controls and mechanisms are subject to the MTI Two-Year Parts only warranty described below. **The bath must be water tested for operation and leaks prior to final enclosure of the unit. Failure to do so will void warranty.** If a problem is discovered after the final enclosure, MTI will not be responsible for the cost of removing or reinstalling the tub, or for costs associated with any adjacent materials. Proper drain installation is the responsibility of the installer. MTI's warranty does not cover drain leakage.

Spa One-Year Warranty: MTI warrants all Spas for one year. The warranty covers the spa shell and all factory-installed components except the spa pack and spa controls. These items are covered under their manufacturer's warranty.

Two-Year (Parts Only) Warranty: MTI warrants all other components not specified above for **two** years for **parts only** against defects in material or workmanship. Components covered for parts only include, but are not limited to, on/off controls, transformer boxes, neck jet pillows, low water sensors, solenoid valves & LED lights. Replacement parts shall assume the remaining warranty period of the parts replaced. Replacement parts are subject to availability, and may differ from those originally supplied. MTI can not guarantee that parts currently in use will be available in the future. Changes in materials, parts or specifications are not valid reasons for product refusal or replacement under warranty claims. Grab bars and additional/ special order trims are specifically excluded from this warranty. Valves and accessories installed and sold by MTI carry their own warranty from their original manufacturer. MTI does not warrant valves and accessories. Check with MTI for details.

Radiance Warranty®: MTI warrants Radiance for two years, parts only, against manufacturing defects. If the control box or keypad fails within the two year period, MTI will send replacement parts out at no charge. In the unlikely event that the electrical heating grid fails within the two year period, MTI Whirlpools' only obligation is to refund the purchase price of the Radiance system to the original product owner. Proof of purchase required.

Stereo H₂O® Warranty: MTI warrants the transducer(s) for one year against manufacturing defects to the original product owner. Labor or any costs associated with gaining access for repair are specifically excluded from warranty. Proof of purchase required.

Return of Warranty Card: The warranty registration card must be filled out by the purchaser within one hundred twenty days from purchase and mailed to MTI Whirlpools in order for this warranty to take effect. Warranty registration can also be done online at mtiwhirlpools.com.

Warranty Limitations:

Your warranty is void if unit is not water tested for operation and leaks and inspected prior to final enclosure. Our warranty does not cover defects, damage, or failure caused by common carrier, installer, user, or other person.

Chips, cracks, and scratches are damages and are NOT covered under warranty, however, they may be repaired by a qualified technician at the owner's/user's expense. Damages or defects that should be detected before installation are not covered.

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MTI Whirlpools is NOT liable for incidental or consequential damage, loss of time, inconvenience, incidental expenses or material charges or any other costs related to the application of this warranty.

We do not cover the following: careless handling; modification of any type for any reason; improper installation (See Installation Instructions); connections supplied by the installer; improper voltage supply/electrical modifications; misuse; incorrect or improper maintenance; incorrect or inadequate water use; use of improper cleaners; or extraordinary acts such as earthquakes, hurricanes, lightning, floods, hail, etc.

Extent of Warranty: This warranty extends only to the original consumer/purchaser of the MTI Whirlpools product when purchased and originally installed within the boundaries of the continental USA*. The warranty terminates after transfer of ownership or if tub is installed or relocated outside the boundaries of the continental USA* by the original consumer/purchaser prior to the expiration of the warranty period. Display floor models and overstock sale units are excluded from this warranty. See commercial warranty for products used in commercial, rental or multi-family applications.

Warranty Performance: In the event of any malfunction or defect covered under the terms of this warranty, a Factory Authorized Service Agent of MTI Whirlpools will repair the MTI product. To obtain service, contact the MTI Service Department for an agent in your area and issuance of a service order number. **No work/payment will be made without an authorized service order number.** There will be no charge for parts, labor or freight costs for parts necessary to repair the tub under warranty. Written notice of any malfunction or defect must be given within ten days of the time the malfunctions were discovered, and **must be accompanied by the tub serial number, model number and manufacturer's date to verify purchase date.** Notice must be given to: MTI Whirlpools, 670 N. Price Rd., Sugar Hill, GA 30518, Attn: Service Dept. MTI reserves the right to inspect the malfunction or defect on site and determine appropriate course of action.

Acts Invalidating Warranty: Inspecting the unit prior to installation is the responsibility of the installer(s) or person(s) acting on behalf of the user. He/she is responsible for ensuring that the unit is free of defect or damage. Our shipping container advises the installer of this responsibility. MTI is not responsible for failure or damage that should have been discovered, repaired, and avoided by proper inspection and testing prior to installation. Damage that occurred in transit is the responsibility of the carrier. The consignee must open and inspect the unit for damage when it is delivered. If the unit is damaged, this must be reported immediately to both the seller and the carrier in writing and an inspection must be requested. In the event that the carrier fails to respond, report such response to both the seller and the carrier. Any freight claims must be filed within ten business days. It is the responsibility of the installer, contractor, or user to install/bed the unit properly allowing for access for service. Access must be provided to **each** pump, air blower and/or electrical component on your tub. The access panel(s) must have a minimum size of 16"x14" for installation and future servicing of the equipment. MTI Whirlpools, Inc. will not authorize any service unless **clear** access is available. Access from a crawlspace or incomplete access to all equipment may result in warranty claims being denied. **Unit must be water tested for operation and leaks prior to final enclosure. Damage, including chips or scratches, occurring to the unit during installation is the responsibility of the installer and after installation is the responsibility of the user.**

Disclaimers: MTI Whirlpools is not responsible for incidental or consequential damages/losses from any cause such as water damage to carpeting, floors, or ceilings. Optional equipment not manufactured by MTI or installed by MTI is not covered. Damages or defects that should be detected before installation are not covered. This limited warranty does not include labor, transportation, or other costs incurred in the removal and/or reinstallation of the original unit or replacement unit. Costs related to obtaining access for repair are not covered. The foregoing warranty is **EXCLUSIVE** and in lieu of all other warranties, including any other warranty of quality, express or implied, and including any warranty of merchantability, or any warranty of fitness for any particular purpose.

Customer Service: To verify coverage or request service, please contact the MTI service department at 800-783-8827. Please have serial or registration number available.

* **Exceptions for Alaskan and Canadian Customers:** MTI Whirlpools extends the complete Residential Limited Lifetime Warranty to any applicable product installed within a 75-mile radius of an Authorized MTI Distributor. Any installation site outside the 75-mile radius will be covered for two years, parts only.

* **Exceptions for Hawaiian Customers:** MTI Whirlpools extends the complete Residential Limited Lifetime Warranty to Hawaiian customers on the islands of Maui, Kauai and Oahu only. All other locations will be covered for two years, parts only.

MTI COMMERCIAL WARRANTY

This warranty is effective for all MTI acrylic whirlpools, air tubs, soaking tubs, and spas manufactured after February 1, 2006, and is in lieu of all other warranties. Warranty coverage begins on date of purchase (regardless of installation date). MTI Whirlpools, Inc. provides a limited warranty to the original purchaser for commercial, rental or multi-family applications.

Whirlpool, Soaking, & Air Tub Warranty: MTI warrants the acrylic surface finish of the tub shell not to peel, crack, blister or delaminate for a period of **two** years from date of purchase to the original purchaser for commercial, rental or multi-family applications. MTI warrants the pump, motor, air blower (for air tubs), and standard whirlpool system components (including the plumbing system) against malfunction, leaking or defects in material or workmanship for a period of two years from the date of purchase. All other components are subject to the MTI One-Year parts only warranty described below. Components covered for parts only include, but are not limited to: on/off controls, transformer boxes, neck jet pillows, low water sensors, solenoid valves & LED lights. **The bath must be water tested for operation and leaks prior to final enclosure of the unit. Failure to do so will void warranty.** If a problem is discovered after the final enclosure, MTI will not be responsible for the cost of removing or reinstalling the tub, or for costs associated with any adjacent materials. Proper drain installation is the responsibility of the installer. MTI's warranty does not cover drain leakage.

Spa One-Year Warranty: MTI warrants all Spas for one year. The warranty covers the spa shell and all factory-installed components except the spa pack and spa controls. These items are covered under their manufacturer's warranty.

One-Year (Parts Only) Warranty: MTI warrants options, accessories and all other components not specifically listed above for **one** year for **parts only** against defects of material or workmanship. Components covered for parts only include, but are not limited to: on/off controls, transformer boxes, neck jet pillows, low water sensors, solenoid valves & LED lights. Replacement parts shall assume the remaining warranty period of the parts replaced. Replacement parts are subject to availability, and may differ from those originally supplied. MTI can not guarantee that parts currently in use will be available in the future. Changes in materials, parts or specifications are not valid reasons for product refusal or replacement under warranty claims. Grab bars and additional/ special order trims are specifically excluded from this warranty. Valves and accessories installed and sold by MTI carry their own warranty from their original manufacturer. MTI does not warrant valves and accessories. Check with MTI for details.

Radiance Warranty®: MTI warrants Radiance for two years, parts only, against manufacturing defects. If the control box or keypad fails within the two year period, MTI will send replacement parts out at no charge. In the unlikely event that the electrical heating grid fails within the two year period, MTI Whirlpools' only obligation is to refund the purchase price of the Radiance system to the original product owner. Proof of purchase required.

Stereo H₂O® Warranty: MTI warrants the transducer(s) for one year against manufacturing defects to the original product owner. Labor or any costs associated with gaining access for repair are specifically excluded from warranty. Proof of purchase required.

Return of Warranty Card: The warranty registration card must be filled out by the purchaser within one hundred twenty days from purchase and mailed to MTI Whirlpools in order for this warranty to take effect. Warranty registration can also be done online at mtiwhirlpools.com.

Warranty Limitations:

Your warranty is void if unit is not water tested for operation and leaks and inspected prior to final enclosure. Our warranty does not cover defects, damage, or failure caused by common carrier, installer, user, or other person.

Chips, cracks, and scratches are damages and are NOT covered under warranty, however, they may be repaired by a qualified technician at the owner's/user's expense. Damages or defects that should be detected before installation are not covered.

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MTI Whirlpools is NOT liable for incidental or consequential damage, loss of time, inconvenience, incidental expenses or material charges or any other costs related to the application of this warranty.

We do not cover the following: careless handling; modification of any type for any reason; improper installation (See Installation Instructions); connections supplied by the installer; improper voltage supply/electrical modifications; misuse; incorrect or improper maintenance; incorrect or inadequate water use; use of improper cleaners; or extraordinary acts such as earthquakes, hurricanes, lightning, floods, hail, etc.

Extent of Warranty: This warranty extends only to the original consumer/purchaser of the MTI Whirlpools product when purchased and originally installed within the boundaries of the continental USA (unless otherwise noted). The warranty terminates after transfer of ownership or if tub is installed or relocated outside the boundaries of the continental USA by the original consumer/purchaser prior to the expiration of the warranty period.

Warranty Performance: In the event of any malfunction or defect covered under the terms of this warranty, a Factory Authorized Service Agent of MTI Whirlpools will repair the MTI product. To obtain service, contact the MTI Service Department for an agent in your area and issuance of a service order number. **No work/payment will be made without an authorized service order number.** There will be no charge for parts, labor or freight costs for parts necessary to repair the tub under warranty. Written notice of any malfunction or defect must be given within ten days of the time the malfunctions were discovered, and **must be accompanied by the tub serial number, model number and manufacturer's date to verify purchase date.** Notice must be given to: MTI Whirlpools, 670 N. Price Rd., Sugar Hill, GA 30518, Attn: Service Dept. MTI reserves the right to inspect the malfunction or defect on site and determine appropriate course of action.

Acts Invalidating Warranty: Inspecting the unit prior to installation is the responsibility of the installer(s) or person(s) acting on behalf of the user. He/she is responsible for ensuring that the unit is free of defect or damage. Our shipping container advises the installer of this responsibility. MTI is not responsible for failure or damage that should have been discovered, repaired, and avoided by proper inspection and testing prior to installation. Damage that occurred in transit is the responsibility of the carrier. The consignee must open and inspect the unit for damage when it is delivered. If the unit is damaged, this must be reported immediately to both the seller and the carrier in writing and an inspection must be requested. In the event that the carrier fails to respond, report such response to both the seller and the carrier. Any freight claims must be filed within ten business days. It is the responsibility of the installer, contractor, or user to install/bed the unit properly allowing for access for service. Access must be provided to **each** pump, air blower and/or electrical component on your tub. The access panel(s) must have a minimum size of 16"x14" for installation and future servicing of the equipment. MTI Whirlpools, Inc. will not authorize any service unless **clear** access is available. Access from a crawlspace or incomplete access to all equipment may result in warranty claims being denied. **Unit must be water tested for operation and leaks prior to final enclosure. Damage, including chips or scratches, occurring to the unit during installation is the responsibility of the installer and after installation is the responsibility of the user.**

Disclaimers: MTI Whirlpools is not responsible for incidental or consequential damages/losses from any cause such as water damage to carpeting, floors, or ceilings. Optional equipment not manufactured by MTI or installed by MTI is not covered. Damages or defects that should be detected before installation are not covered. This limited warranty does not include labor, transportation, or other costs incurred in the removal and/or reinstallation of the original unit or replacement unit. Costs related to obtaining access for repair are not covered. The foregoing warranty is **EXCLUSIVE** and in lieu of all other warranties, including any other warranty of quality, express or implied, and including any warranty of merchantability, or any warranty of fitness for any particular purpose.

Customer Service: To verify coverage or request service, please contact the MTI service department at 800-783-8827. Please have serial or registration number available.



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