

H2X

FITNESS SWIM SPAS

 BY MASTER SPAS



2025
OWNER'S MANUAL
AND LIMITED WARRANTY

MASTER SPAS OWNER'S MANUAL

Welcome to the Ultimate in Relaxation!

Thank you for choosing your new swim spa built by Master Spas. For how-to videos and helpful tips on operating and maintaining your swim spa, please visit www.masterspas.com/resources.

Please read the entire Owner's Manual before installing and using your swim spa. The goal of this manual is to provide you with safety and operational information plus some tips that will help you enjoy your swim spa to its fullest. At the time of print, this manual is accurate in its information. Master Spas reserves the right to change or improve its product without prior notice.

REGISTER YOUR SWIM SPA

Please be sure to register your swim spa so we can efficiently assist with any questions you may have. Until your swim spa has been registered, Master Spas will not have record of your ownership. To register your swim spa, visit www.masterspas.com/resources and click on Spa Registration.

SERIAL NUMBER LOCATION

The serial number for your swim spa is located near the filter area, on the swim spa system pack, or on the listing plate on the skirting. It will start with "H" followed by a 6 digit number. For example, H251234.

RECORD OF OWNERSHIP

Name _____

Address _____

City _____ State _____ Zip _____

Phone Number (____) _____ - _____ Date Purchased ____/____/____

Model _____ Serial # _____

Dealer Name _____

Service Tech Rep _____



WATCH HOW-TO VIDEOS:

masterspas.com/video-tutorials



RELAX. IT'S

Master Spas®

6927 Lincoln Parkway
Fort Wayne, IN 46804
masterspas.com

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SAVE THESE INSTRUCTIONS

Included with your new swim spa is a safety sign. The sign is for you and your guest's protection and is suitable for outdoor use in wet locations. The sign should be placed in a location visible to all users of the swim spa.

Please take time to point out the physical location of the safety sign and the importance of the safety precautions displayed on the safety sign to all of your guests. Remember, your safety and the safety of anyone who enjoys the use of your swim spa is our utmost concern.

The sign should be mounted with screws or another type of permanent fastener. Additional or replacement signs can be obtained from your dealer or direct from the factory.

INTRODUCTION

It's time to relax! You now have your very own portable swim spa by Master Spas. By fully understanding the operation of each of the features of your new Master Spas Swim Spa, you will be assured of many years of hassle-free, hot water therapy and fun.

Your safety is of paramount importance to the Master Spas family. We urge you to carefully read, understand, and follow all information in this user manual before installing and using the swim spa. These warnings, instructions, and safety guidelines address some common risks of water recreation, but they cannot cover all risks and dangers in all cases. Always use caution, common sense, and good judgment when enjoying any water activity. Retain this information for future use.

Through reading and totally understanding the important information in your owner's manual, you will realize that you now own THE ULTIMATE RELAXATION MACHINE!®



Safety graphical symbol ISO 7010, M002 –
Refer to instruction manual/booklet

NO DIVING

**DANGER: DIVING MAY
RESULT IN SERIOUS
INJURY OR DEATH.**



IMPORTANT SAFETY INSTRUCTIONS

This swim spa is not intended for public/commercial use.

When installing and using this electrical equipment, basic safety precautions should be observed including the following:

READ AND FOLLOW ALL INSTRUCTIONS

WARNING – To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

A wire conductor is provided on this unit to connect a minimum 10AWG (5.26mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5m) of the unit.

(For cord-connected/convertible units)

DANGER – Risk of injury.

- a) Replace damaged cord immediately.
- b) Do not bury cord.
- c) Connect to a grounded, grounding type receptacle only.

(For units intended for indoor use only)

WARNING – For indoor use only. This unit is not intended for outdoor use.

(For units intended for outdoor use only)

WARNING – For outdoor use only. This unit is not intended for indoor use.

NO DIVING

**DANGER: DIVING MAY
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IMPORTANT SAFETY INSTRUCTIONS (CONT.)

(For units with GFCI)

WARNING – This product is provided with a ground-fault circuit interrupter located on the front panel of selected swim spas and on the power cord of 120 volt convertible spas. The GFCI must be tested before each use. With the product operating, open the service door. When the product stops operating, this merely indicates that the door is equipped with an electrical interlock. Next, push the test button on the GFCI and close the service door. The product should not operate. Now open the service door, push the reset button on the GFCI and close the service door. The product should now operate normally. When the product fails to operate in this manner, there is a ground current flowing indicating the possibility of an electric shock. Disconnect the power until the fault has been identified and corrected.

DANGER – Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this swim spa unless they are supervised at all times.

DANGER – Risk of Injury. The suction fittings in this swim spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate swim spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

DANGER – Risk of Electric Shock. Install at least 5 feet (1.5m) from all metal surfaces. As an alternative, a swim spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 8AWG (8.4mm²) solid copper conductor to the wire connector on the terminal box that is provided for this purpose. Be sure to review and comply with any overruling local or national applicable regulations.

DANGER – Risk of Electric Shock. Do not permit any electric appliance, such as a light, telephone, radio, or television, within 5 feet (1.5 m) of a swim spa.

WARNING – To reduce the risk of injury:

- a) The water in a swim spa should never exceed 104°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when swim spa use exceeds 10 minutes. Persons with any medical condition should seek medical advice before using a swim spa.

NO DIVING	DANGER: DIVING MAY RESULT IN SERIOUS INJURY OR DEATH.	
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IMPORTANT SAFETY INSTRUCTIONS (CONT.)

- b) 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 swim spa water temperatures to 100°F (38°C) and duration of use and should also seek medical advice.
- c) Before entering a swim spa, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices varies.
- d) The use of alcohol, drugs, or medication before or during swim spa use may lead to unconsciousness with the possibility of drowning.
- e) Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a swim spa.
- f) Persons using medication should consult a physician before using a swim spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

(For swim spas with a gas heater)

WARNING – Risk of Suffocation. This swim spa is equipped with a gas heater and is intended for outdoor use only unless proper ventilation can be provided for an indoor installation.

SAVE THESE INSTRUCTIONS

HYPERTHERMIA

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). Prolonged immersion in hot water may induce hyperthermia.

THE SYMPTOMS OF HYPERTHERMIA INCLUDE:

- Dizziness • Fainting • Drowsiness • Lethargy
- Increase in Internal Body Temperature

THE EFFECTS OF HYPERTHERMIA INCLUDE:

Unawareness of Impending Hazard • Failure to Perceive Heat • Failure to Recognize the Need to Exit Swim Spa • Physical Inability to Exit Swim Spa • Fetal Damage in Pregnant Women • Unconsciousness Resulting in a Danger of Drowning

WARNING – The use of alcohol, drugs, or medication can greatly increase the risk of hyperthermia.

NO DIVING

**DANGER: DIVING MAY
RESULT IN SERIOUS
INJURY OR DEATH.**



IMPORTANT SAFETY INSTRUCTIONS (CONT.)

DANGER – To reduce the risk of injury to persons, do not remove the suction grate. Suction through drains and skimmers is powerful when the jets in the swim spa are in use. Damaged covers can be hazardous to small children and adults with long hair. Should any part of the body be drawn into these fittings, turn off the swim spa immediately. As a precaution, long hair should not be allowed to float in the swim spa.



EN 17125 – Do not put finger in massage jet

WARNING – Install the swim spa so that water can be easily drained out of the compartment containing electrical components so as not to damage equipment. When installing the swim spa make sure to allow for an adequate drainage system to deal with any overflow water. Please allow for at least 3 feet of clearance around the perimeter of the swim spa to provide enough room to access for servicing. Contact your local dealer for their specific requirements.

WARNING – The swim spa should be covered with an approved locking cover when not in use, to prevent unauthorized entry and injuries.

WARNING – People with infections, sores or the like should not use the swim spa. Warm and hot water temperatures may allow the growth of infectious bacteria if not properly disinfected.

CAUTION – Safe temperatures for swimming or aquatic exercise is around 80°F (26.7°C).

CAUTION – Risk of Electrical Shock. Do not leave audio compartment open. Audio CD controls are not to be operated while inside the swim spa.

CAUTION – Replace components only with identical components.

WARNING – Risk of Electric Shock. Do not connect any auxiliary components (for example, additional speakers, headphones, additional audio/ video components etc.) to the system. These units are not provided with an outdoor antenna.

Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. If the power supply cord(s) are damaged, water is entering the speaker, audio compartment, or any other component in the electrical equipment compartment area, the protective shield is showing signs of deterioration, or there are signs of other potentially hazardous damage to the unit, turn off the circuit breaker from the wall and refer servicing to qualified personnel.

NO DIVING	DANGER: DIVING MAY RESULT IN SERIOUS INJURY OR DEATH.	
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IMPORTANT SAFETY INSTRUCTIONS (CONT.)

The unit should be subjected to periodic routine maintenance once every quarter to make sure that the it is operating properly.

DANGER – Risk of Electric Shock. A green colored terminal or a terminal marked G, GR, Ground, Grounding or the symbol shown in Figure 14.1 of UL 1563 is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.

At least two lugs marked “Bonding Lugs” are provided on the external surface or on the inside of the supply terminal box or compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the swim spa to these terminals with an insulated or bare copper conductor not smaller than 10AWG.

All field installed metal components such as rails, ladders, drains, or other similar hardware within 10 feet (3m) of the swim spa shall be bonded to the equipment grounding bus with copper conductors not smaller than 10AWG.

SAVE THESE INSTRUCTIONS

SAFETY INSTRUCTIONS

WARNING: CHILDREN SHOULD NOT USE SWIM SPAS OR HOT TUBS WITHOUT ADULT SUPERVISION.

AVERTISSEMENT: NE PAS LAISSER LES ENFANTS UTILISER UNE CUVE DE RELAXATION SANS SURVEILLANCE.

WARNING: DO NOT USE SWIM SPAS OR HOT TUBS UNLESS ALL SUCTION GUARDS ARE INSTALLED TO PREVENT BODY AND HAIR ENTRAPMENT.

AVERTISSEMENT: POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS PUISSENT ÊTRE ASPIRES, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DI PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE.

WARNING: PEOPLE USING MEDICATIONS AND/OR HAVING AN ADVERSE MEDICAL HISTORY SHOULD CONSULT A PHYSICIAN BEFORE USING A SWIM SPA OR HOT TUB.

AVERTISSEMENT: LES PERSONNES QUI PRENNENT DES MÉDICAMENTS OU ONT DES PROBLÈMES DE SANTÉ DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.

WARNING: PEOPLE WITH INFECTIOUS DISEASES SHOULD NOT USE A SWIM SPA OR HOT TUB.

AVERTISSEMENT: LES PERSONNES ATTEINTES DE MALADIES INFECTIEUSES NE DEVRAIENT PAS UTILISER UNE CUVE DE RELAXATION.

WARNING: TO AVOID INJURY EXERCISE CARE WHEN ENTERING OR EXITING THE SWIM SPA OR HOT TUB.

AVERTISSEMENT: POUR ÉVITER DES BLESSURES, USER DE PRUDENCE EN ENTRANT DANS UNE CUVE DE RELAXATION ET EN SORTANT.

WARNING: DO NOT USE DRUGS OR ALCOHOL BEFORE OR DURING THE USE OF A SWIM SPA OR HOT TUB TO AVOID UNCONSCIOUSNESS AND POSSIBLE DROWNING.

AVERTISSEMENT: POUR ÉVITER L'ÉVANOUISSEMENT ET LA NOYADE ÉVENTUELLE, NE PRENDE NI DROGUE NI ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION NI QUAND ON S'Y TROUVE.

WARNING: PREGNANT OR POSSIBLY PREGNANT WOMEN SHOULD CONSULT A PHYSICIAN BEFORE USING A SWIM SPA OR HOT TUB.

AVERTISSEMENT: LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.

WARNING: WATER TEMPERATURE IN EXCESS OF 38°C MAY BE INJURIOUS TO YOUR HEALTH.

AVERTISSEMENT: IL PEUT ÊTRE DANGEREUX POUR LA SANTÉ DE SE PLONGER DANS DE L'EAU A PLUS DE 38°C.

WARNING: BEFORE ENTERING THE SWIM SPA OR HOT TUB MEASURE THE WATER TEMPERATURE WITH AN ACCURATE THERMOMETER.

AVERTISSEMENT: AVANT D'UTILISER UNE CUVE DE RELAXATION MESURER LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN THERMOMÈTRE PRÉCIS.

SAFETY INSTRUCTIONS

WARNING: DO NOT USE A SWIM SPA OR HOT TUB IMMEDIATELY FOLLOWING STRENUOUS EXERCISE.

AVERTISSEMENT: NE PAS UTILISER UNE CUVE DE RELAXATION IMMÉDIATEMENT APRÈS UN EXERCISE FATIGANT.

WARNING: PROLONGED IMMERSION IN A SWIM SPA OR HOT TUB MAY BE INJUROUS TO YOUR HEALTH.

AVERTISSEMENT: L'UTILISATION PROLONGÉE D'UNE CUVE DE RELAXATION PEUT ÊTRE DANGEREUSE POUR LA SANTÉ.

WARNING: DO NOT PERMIT ELECTRIC APPLIANCES (SUCH AS LIGHT, TELEPHONE, RADIO, OR TELEVISION) WITHIN 1.5 M OF THIS SWIM SPA OR HOT TUB.

AVERTISSEMENT: NE PAS PLACER D'APPAREIL ÉLECTRIQUE (LUMINAIRE, TÉLÉPHONE, RADIO, TÉLÉVISEUR, ETC) À MOINS DE 1.5 M DE CETTE CUVE DE RELAXATION.

CAUTION: MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.

ATTENTION: LA TENEUR DE L'EAU EN MATIÈRES DISSOUTES DOIT ÊTRE CONFORME AUX DIRECTIVES DU FABRICANT.

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 °F (37 °C). The symptoms of hyperthermia include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include:

- (a) unawareness of impending hazard;
- (b) failure to perceive heat;
- (c) failure to recognize the need to exit swim spa;
- (d) physical inability to exit swim spa;
- (e) fetal damage in pregnant women; and
- (f) unconsciousness and danger of drowning.

WARNING: THE USE OF ALCOHOL OR DRUGS CAN GREATLY INCREASE THE RISK OF FATAL HYPERTHERMIA IN HOT TUBS AND SWIM SPAS.

AVERTISSEMENT: LA CONSOMMATION D'ALCOOL OU DE DROGUE AUGMENTE CONSIDÉRABLEMENT LES RISQUES D'HYPERTHERMIE MORTELLE DANS UNE CUVE DE RELAXATION.

SAFETY INSTRUCTIONS

For swim spas relying on a specific means of egress, such means shall not be removed when the swim spa is in use.

DANGER – This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.



Safety graphical symbol ISO 20712-1, WSM002 – Keep children under supervision in the aquatic environment

DANGER – Risk of Accidental Drowning (especially children under 5 years). Caution shall be exercised to prevent unauthorized access to the swim spa by children. This can be reached by an adult supervisor securing the means of access or installing a safety protection device to the swim spa. To avoid accidents during swim spa use, ensure that children are kept under constant adult supervision).

Avoid putting the head under water at all times.

Avoid swallowing swim spa water.

DANGER – No Diving.



Safety graphical symbol ISO 20712-1, WSP005 – No Diving

COMPLIANCE

Relax and rest assured that your Master Spas manufactured swim spa has been built with safety in mind. We manufacture our self-contained swim spas to meet a stringent list of industry standards.

Our jetted swim spas comply with the following industry standards:

- UL 1563 Standard for Electric Spas, Equipment Assemblies and Associated Equipment
- ICC ISPSC International Swimming Pool & Spa Code
- European Standard EN 17125 for Domestic Spas/Whirlpool Spas/Hot Tubs – Safety Requirements and Test Methods
- VGB Virginia Graeme Baker Pool and Spa Safety Act (Certified by UL to UL 1563)
- ANSI/APSP-6 Standard for Portable Spas
- ANSI/APSP/ICC-14 Standard for Portable Spa Energy Efficiency
- CEC Title 20 Appliance Efficiency Regulation
- CSA C22.2 No. 218.1 Spas, Hot Tubs and Associated Equipment
- IAPMO/ANSI Z124.7 Prefabricated Plastic Spa Shells
- CE - EN 60335-2-60 Household and Similar Electrical Appliances – Safety: Particular Requirements for Whirlpool Baths and Whirlpool Spas
- CE - EN 60335-1 Household and Similar Electrical Appliances – Safety: General Requirements
- 2014/35/EU Low Voltage Directive
- 2014/30/EU EMC Directive
- 93/68/EEC CE Marking Directive
- AS1926.3-2010 RC2016
- 2014/53/EU Wireless Directive
- UKCA Electromagnetic Compatibility Regulations 2016
- UKCA Electrical Equipment (Safety) Regulations 2016
- UKCA Radio Equipment Regulations 2017
- UKCA The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
- EU REACH Compliant

Our propulsion swim spas comply with the following industry standards:

- UL 1563 Standard for Electric Spas, Equipment Assemblies and Associated Equipment
- ICC ISPSC International Swimming Pool & Spa Code
- VGB Virginia Graeme Baker Pool and Spa Safety Act (Certified by UL to UL 1563)
- ANSI/APSP-7 (Propulsion system only Certified by NSF) Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs and Catch Basins
- ANSI/APSP-6 Standard for Portable Spas
- ANSI/APSP/ICC-14 Standard for Portable Spa Energy Efficiency
- CEC Title 20 Appliance Efficiency Regulation
- CSA C22.2 No. 218.1 Spas, Hot Tubs and Associated Equipment
- IAPMO/ANSI Z124.7 Prefabricated Plastic Spa Shells
- CE - EN 60335-2-60 Household and Similar Electrical Appliances – Safety: Particular Requirements for Whirlpool Baths and Whirlpool Spas
- CE - EN 60335-1 Household and Similar Electrical Appliances – Safety: General Requirements
- 206/95/EC EC Low Voltage Directive
- 204/108/EMC Directive
- 93/68/EEC CE Marking Directive



VGB SUCTION SAFETY & MAINTENANCE INSTRUCTIONS

VGB 2008:

WARNING



Read and follow all instructions in this manual and on the suction fitting. Failure to follow instructions can cause severe injury and/or death.



Failure to remove pressure test plugs and/or plugs used in winterization of the spa/swim spa from the suction outlets can result in an increased potential for suction entrapment.



Suction outlet components have a finite life. The cover/grate should be inspected frequently and replaced at least every seven years, or if found to be damaged, broken, cracked, missing, or not securely attached.



If the fitting is missing or broken, replace with a fitting of equivalent rating or higher. Use of a lower rated suction fitting could result in entrapment of the body which could result in serious injury including drowning.



Do not use or operate spa/swim spa if this suction fitting is missing, broken or not secured per instructions. The suction fitting is intended to prevent entrapment of the body. Use of the spa/swim spa with a missing, broken or improperly secured suction grate may result in serious personal injury including drowning.



When the spa/swim spa is in operation, suction is created at this fitting. Users of the spa/swim spa must be instructed not to come in contact with this fitting in such a way as to block its orifice. If a user of the spa/swim spa blocks this fitting with his/her body, serious personal injury or drowning may occur.

IMPORTANT SAFETY INSTRUCTIONS



WARNING - SUCTION ENTRAPMENT HAZARD

Suction in suction outlets and/or suction outlet covers which are damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment: Hair can become entangled in suction outlet cover.

Limb Entrapment: A limb inserted into an opening of a suction outlet sump/fitting or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

Body Suction Entrapment: A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

Evisceration/Disembowelment Entrapment: A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is damaged, broken, cracked, missing, or unsecured can result in evisceration/disembowelment entrapment.

Mechanical Entrapment: There is potential for jewelry, swimsuit, hair decorations, finger, toe, or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

VGB SUCTION SAFETY & MAINTENANCE INSTRUCTIONS

TO REDUCE THE RISK OF ENTRAPMENT HAZARDS:

- Never use a spa/swim spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- It is recommended that suction components be inspected at least monthly.
- Replace the suction within 7 years from the installation date. Contact your dealer or local service center for quoting and scheduling this required maintenance. This is a mandated regulation and is not part of nor covered by the spa/swim spa warranty.

NOTE: Always review entire safety and maintenance information before beginning maintenance. Contact Master Spas for Suction Installation information for complete suction assembly replacement.

GLOSSARY OF SWIM SPA TERMINOLOGY

Your new swim spa features a variety of jets. All jets, regardless of style, return the water to the swim spa. Air is mixed with the water by using the air controls (if equipped) creating a vigorous massage. Water flow is adjusted by simply turning the outer face of most jets. Your swim spa may have a combination of pulsating, rotating, dual pulsating and directional adjustable jets. Here are some terms and definitions to help get you acquainted with your swim spa.

1. THERAPY JETS

Located throughout the seats of the swim spa to offer a variety of therapy combinations.

2. NECK JETS AND SHOULDER JETS (if equipped)

Located above the normal water level to provide massaging action to the back of the neck and shoulders.

3. MASTER BLASTER® FOOT THERAPY JET (if equipped)

Large jet with several fixed nozzles located in the bottom of the swim spa near the floor to provide excellent massage to the feet.

4. JET DIVERTER VALVE* (if equipped)

Located on the top flange of the swim spa, this large valve physically diverts the flow of water from one group of jets to another. Be sure that no sand or particles are brought into the swim spa as they will cause the diverter to seize up. It is best to turn the diverter valve only when the pump is turned off.

5. WATER FEATURE VALVE* (if equipped)

Located on the top flange of the swim spa, this smaller valve adjusts water flow to the waterfalls and/or water features in your swim spa.

NOTE: When the swim spa is not in use, this valve should be turned mostly shut (not completely shut) to prevent the water features from allowing water to hit the cover while it is closed. If left mostly open, water may hit the cover and possibly run out of the swim spa causing water loss.

6. AIR CONTROL VALVE*

These smaller valves are located around the top of your swim spa. You may increase or decrease the force of your jets by opening or closing the air control valves. Each air control valve will typically function 1 to 2 groups or seats of jets in the swim spa. When not in use, the air controls should be kept in the closed position as the air being introduced into the water can tend to cool the water and increase the dissipation rate of sanitizer levels.

7. TOPSIDE CONTROL PANEL*

You may safely control swim spa functions from inside or outside your swim spa using the Topside Control Panel. This panel is used to control the water temperature, pumps, the swim spa light, automatic filtration cycles and other advanced functions. The digital display will give you a constant temperature readout and will notify you in case of certain malfunctions. Several user programmable functions are also available.

8. AUXILIARY BUTTON/PERSONAL KEYPAD CONTROL* (if equipped)

Some swim spa models may have an additional button/keypad which allows the user to control components of the swim spa while being away from the main panel.

***NOTE:** See Pump Diagrams in the back of this manual for location of valves, controls, and jets.



Personal Keypad Control

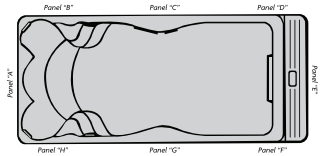


Auxiliary Button

GLOSSARY OF SWIM SPA TERMINOLOGY

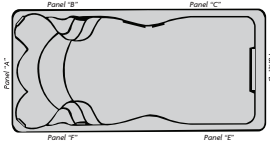
9. ACCESS PANELS

These are the skirt panels located around all four sides of the swim spa. All of the skirt panels are removable should service be required. Master Spas recommends at least 3 feet of space be provided around the swim spa.



10. EQUIPMENT ACCESS PANEL

This skirting panel will either be on the main swim end or the end with the seats depending on your model. Use the diagrams shown here and the model specifications page to determine the correct access panel(s) for your swim spa. This area houses the majority of components responsible for the swim spa's operation. This includes the pumps, heater, swim spa control system, ozonator (if equipped), and LED light system (if equipped). Pump and equipment placement may vary by model.



NOTE: On Dual Body models, equipment will be found underneath both panel "A" and panel "E".

11. FILTER LID

This lid fits over the filter area and weir gate to cover the filters. Remove filter lid to access filters for maintenance. For models equipped with a telescoping filter housing, simply lift up to remove this floating assembly to access the filter. At low speed water flow or when the filtering/heating pump is off, the telescoping part of the filter assembly will float at or near the waterline. At high speed water flow, it will be drawn downward. See Accessing Filters in the Regular Maintenance Procedures section for detailed instructions on filter assemblies.

12. WEIR GATE

The weir gate is the horizontal door located in front of the filters that helps keep debris trapped in the filter area.

13. SWIM SPA CONTROL SYSTEM

This houses the wiring and electrical components necessary to operate the swim spa.

14. SWIM SPA HEATER

This is an electric heater housed in a stainless steel tube. It is thermostatically controlled and equipped with high-limit temperature safety shut-off sensors.

15. SLICE VALVES

These valves are used by service personnel to shut off water to the heating system (heater and pump plumbed to the heater) so that the swim spa water does not need to be drained if the swim spa requires service to the heating system (varies by model).

NOTE: Slice valves must be completely open during normal operations.



Slice Valve and Pump Union

16. PUMP UNION

This connects the plumbing and pump together. These are used to help relieve possible pump air locks or for service personnel to easily service the pumps.

17. HEATER UNION

These are used by service personnel to easily service the heater.

GLOSSARY OF SWIM SPA TERMINOLOGY

18. MAIN THERAPY PUMP

This produces water flow through the main jets in the swim spa. The first pump may be operated on two speeds (varies by model). Low speed (if applicable) will produce efficient water circulation during filtration, heating of the swim spa water, and gentle jet action. High speed provides maximum jet action. The main pump is controlled by the “Jets” or “Jets 1” button on the Topside Control Panel.

19. SECONDARY THERAPY PUMP

This produces water flow through 1 to 2 groups or seats of jets in the swim spa. The second pump operates similar to the main pump and is controlled by the “Jets 2” or “Aux” button on the Topside Control Panel.

20. THIRD THERAPY PUMP (if equipped)

This produces water flow through 1 to 2 groups or seats of jets in the swim spa. This is controlled by the “Jets 3” button on the Topside Control Panel.

21. CIRCULATION PUMP (if equipped)

This produces water flow through the heater in the swim spa and provides the water flow necessary to actuate the ozone injector. This smaller energy efficient pump is used for filtration and heating instead of utilizing the high powered main therapy pump.

22. SWIM SPA LIGHT

The on/off control for the lighting in your swim spa is located on the topside control panel near the therapy seats.

23. EXERCISE/SWIM JETS (H2X Swim Spas)

These large jets are grouped at the end of your swim spa to offer water flow for exercising against. A jet diverter valve may control the flow for these jets.

24. SWIM SPA JUNCTION BOX (MP Swim Spa Only)

The internal junction box for connecting your electrical service(s) to the swim spa is located behind and accessible by removing access panels “B” and “A”.

25. PROPULSION SYSTEM ACCESS (MP Swim Spa Only)

The propulsion control system of the MP Swim Spas is located behind the skirt panel designated as “E” in the access panels drawing. The propulsion motor, propulsion control pack, and pulleys for the system are located in this area.

26. PROPULSION SYSTEM CONTROL PANEL (MP Swim Spa & H2X Challenger Models Only)

You may safely control the speed of the propulsion system or variable speed swim jets from the inside of your swim spa by using the touchscreen control panel mounted in the swim area. This control panel is used to turn the water flow for exercising on and off and to adjust the intensity. This control panel may be safely used from inside or outside of the swim spa to adjust the water flow.

ECOPUR® CHARGE

MASTER CORE TECHNOLOGY

The EcoPur® Charge* is made from Master Spa's patented filtration fabric. This fabric is wound tightly into a nautilus master core, creating a catalytic cell. The nautilus fabric cell is encased by a unique "spring core" that allows for maximum flow and water "charging". As water comes in contact with the EcoPur® Charge Master Core, a chemical reaction causes zinc and copper hydroxides to form in controlled amounts. Like Mother Nature, when controlled releases of copper and zinc oxides are carried into the filtered water, they kill bacteria and provide hostile conditions for algae and fungal growth. Using EcoPur® Charge helps reduce the amount of chemicals needed, therefore safeguarding the swim spa's plumbing and equipment because pipes are protected against the corrosive effects of chlorine. EcoPur® Charge Master Core Technology is another exclusive design by Master Spas.

FEATURES

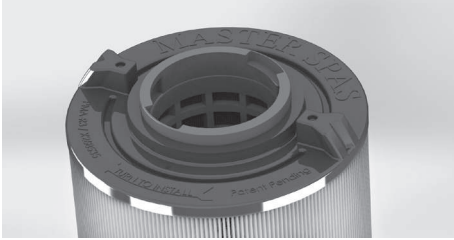
- Releases Sanitizing Copper & Zinc Oxides
- Reduces Water Soluble Heavy Metals
- Controls Scale, Bacteria and Algae
- Safeguards the Swim Spa's Plumbing
- Reduces Use of Chemicals
- Helps Prevent Damage to Swimwear



*PATENTS PENDING

THE ADVANTAGES OF ECOPUR® CHARGE

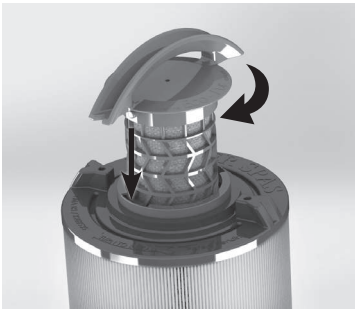
ECOPUR® CHARGE INSTALLATION



Master Spas Outer Filter*



EcoPur® Charge*



Turn Clockwise to Lock

STEPS FOR INSTALLATION

1. Insert EcoPur® Charge in to outer filter.
2. Twist EcoPur® Charge clockwise to lock in place while holding on to outer filter. When snapped in to locked position, EcoPur® Charge handle aligns with molded points on outer filter.

NOTE: EcoPur® Charge should be replaced every 6 months. Initial snap in fit of inner EcoPur® Charge to outer filter may be tight, especially if both are new.



*PATENTS PENDING

Before jumping into Water Maintenance, here are some terms to help you.

- 1. PARTS PER MILLION (PPM):** This is a form of measurement used in most pool or swim spa chemical readings. Best described as any one million like items of equal size and make up, next to one unlike item, but of equal size. This would be one part per million.
- 2. TOTAL ALKALINITY:** Measures substances in your water such as hydroxides, carbonates and bicarbonates. When at the proper levels, these elements keep your water from clouding and growing bacteria, as well as prevent the inner workings of your swim spa from deteriorating or forming scale. TA also helps to stabilize pH. The higher the TA level (as long as it is within the recommended range), the less likely the pH is to change. With low alkalinity, the pH will fluctuate and be harder to control. With high alkalinity, it becomes extremely difficult to change the pH.
- 3. PH OR POTENTIAL HYDROGEN:** This indicates the acidity or basicity of the water. The goal is to have a neutral, stable pH to prevent swim spa damage and unhealthy conditions. Low pH levels can corrode metals, etch or stain fiberglass or acrylic, cause unsanitary conditions that irritate the eyes or skin and destruct the total alkalinity of the water. High pH can cause cloudy water, eye or skin irritation, scale formation and poor chlorine or bromine efficiency. Note that the chemicals you are using to sanitize and clean your swim spa can also lower or raise the pH level in the water. Unfortunately, there are lots of variables to preventing high pH in your swim spa.
- 4. SHOCKING:** By shocking the water in your swim spa, you remove organic compounds from the water, kill bacteria, remove bromamines or chloramines and reactivate the bromides in the swim spa for cleaner water. You should shock your water once a week, after heavy bather use or any time free chlorine levels test lower than total chlorine levels. To do this, either add oxidizer/non-chlorine shock to burn off the chloramines or add extra chlorine to raise the chlorine level. Oxidizer/non-chlorine shock acts by releasing oxygen in the water, which serves a similar function as chlorine. An advantage to using this type of shock is that the water is safe to enter after 15 minutes of the application and excessive sanitizer (chlorine) levels do not occur. However, an oxidizer/non-chlorine shock doesn't disinfect the water for bacteria. If you use chlorine to shock, you must wait until the total chlorine reading is at a level safe to reenter the water.
- 5. SEQUESTERING:** This can be defined as the ability to form a chemical complex which remains in solution, despite the presence of a precipitating agent (i.e. calcium and metals). If the minerals and metals in water are not sequestered, they can cause a reaction, turning the water brown, red, orange or green depending on the minerals and metals present in your water. It is important to add a sequestering agent when adding water to your swim spa and even on a regular basis (if bottle instructions recommend doing so). Common names for sequestering chemicals are: minquest, stain and scale control, metal-x, spa defender, spa metal gone, etc.
- 6. FILTRATION:** Filters are necessary to remove particles of dust, dirt, algae, etc., that are continuously entering the water. If the swim spa is not operated long enough each day for the filter to do a proper job, this puts a burden on the chemicals, causing extra expense. Filtration time will depend on the water capacity, pump and filter size and, of course, bather load. Spare filter cartridges should be kept on hand to make it easy to frequently clean the cartridge without the need for a long shut down. This will also allow the cartridge to dry out between usages, which will increase the cartridge life span as much as twice. Replace the cartridge when the pleats begin to deteriorate. Cartridge cleaning should be done a minimum of once a month. More often with a heavy bather load. See *Cleaning Your Filter Elements* in the Regular Maintenance section.

WATER CHEMISTRY TERMS YOU SHOULD KNOW

7. **SANITIZERS:** Germs and bacteria enter the water from the environment and the human body; a sanitizer keeps the water balanced and safe to use. Either chlorine or bromine can be used as a sanitizer to create a healthy water environment.
- A. Chlorine:
1. Only one type is approved for swim spa use. Sodium dichlor which is granular, fast dissolving and pH neutral chlorine.
 2. Chlorine is an immediate sanitizer and will be added as needed to maintain free chlorine levels.
- B. Bromine
1. Two types of tablets:
 - a. Hydrotech
 - b. Lonza
 2. Bromine is a slow dissolve chemical and may take a few days to develop a reserve or reading in the water.
- NOTE:** Bromine use is not recommended with EcoPur[®] filters as it can hinder being able to maintain proper reserve/residual levels for maintaining sanitary conditions.
- WARNING:** Nonslip, Comfort Floor System is not compatible with bromine and will result in unwarranted deterioration of the material. Do not use bromine if your swim spa is equipped with this System.
8. **TOTAL DISSOLVED SOLIDS (TDS):** Materials that have been dissolved by the water, i.e. like what happens when you put sugar in coffee or tea.
9. **USEFUL LIFE OF WATER (IN DAYS):** Water should be drained at least once every 180 days. Useful life may vary by usage and bather load.
10. **DEFOAMER:** A chemical used to temporarily reduce foaming. Causes of foaming include body oils, cosmetics, lotions, surface cleaners, high pH or algae, as well as other organic materials. Low levels of calcium or sanitizer can also cause increased foaming. Note that you may need to physically remove the foam and/or drain all or part your water to remove or dilute the causes of the foam.
11. **CALCIUM HARDNESS:** This measurement tells you how much magnesium and calcium are in your water. However, calcium hardness can react with all of the chemicals, bacteria, dirt and other substances that your water dissolves and get thrown out of balance. Just like the other elements, calcium levels must remain balanced and need to be monitored or you run the risk of metal deterioration, water foaming or clouding and scale formation at the surface of your water.
- NOTE:** Always leave swim spa cover open for 15 minutes after adding chemicals to prevent the off gas from damaging your swim spa cover, swim spa pillows, stainless steel hardware and other critical parts.
12. **BIOFILM:** This is any group of microorganisms in which cells stick to each other and often these cells adhere to a surface (i.e. swim spa plumbing and shell). Biofilm can occur over time during the use of your swim spa.

WHY ARE CHEMICALS IMPORTANT IN A SWIM SPA

1. EVAPORATION:

As water evaporates, only pure water evaporates, leaving the salts, minerals, metals, and any unused chemicals behind. Adding water adds more salts, minerals, and metals. In time, the water can become saturated with these dissolved solids and can cause stains or scale to form on the walls of the swim spa or a scale build up inside the equipment. Colored or cloudy water and possible corrosion of plumbing and fittings may also occur.

2. HEAT:

Heat causes much quicker evaporation and also will cause minerals and metals to precipitate out of solution.

3. AIR:

Dust and other airborne contaminants are introduced into the swim spa.

4. ENVIRONMENT:

The environment surrounding the swim spa can also impact the water quality. Items such as pollen, grass, sand, dirt, lawn fertilizer, airborne dust, insects, leaves, and pets can all affect the water quality of the swim spa.

5. BATHERS:

As the swim spa is used, bathers introduce contaminants to the water. Increased bather load, length of use and frequency will increase the amounts of contaminants added in to the water.

NOTE: The maintenance routines set forth in this manual may need to be adjusted depending on bather load and how much the swim spa is being used.

WATER MAINTENANCE – RECOMMENDED RANGES

WATER CHEMISTRY GUIDE

Before treating your water, refer to the Model Specifications section of this manual for the correct gallons of your swim spa, to ensure you are adding the correct amount of chemicals. The concentration of active ingredients in spa chemicals varies by manufacturer, so always consult chemical manufacturer's instructions. When adding spa chemicals, always spread them across the surface of the water while the pumps are running. See chart below for recommended ranges.

PARAMETER	VALUE ^a
Water Clarity	Clear view of the bottom
Color of Water	No color should be observed ^b
Total Alkalinity (TA)	80 - 150 ppm
pH Value ^{c, d}	7.2 - 7.6
Chlorine	2 - 4 ppm
Bromine (in mg/l)	3 - 5 ppm
Calcium Hardness	180- 250 ppm
When using alternative/additional disinfectants other appropriate parameters may be considered.	
^a Consult national regulations and guidelines for any deviations.	
^b Natural water sources may introduce water coloration.	
^c Subject to the flocculant(s) used (if any).	
^d When pH is greater than 7.5 the free active chlorine is less than 50 %.	

NOTE: Recommended levels stated in this manual are based on industry standards for permanently installed and portable residential swim spas. Improper use of chemicals may result in unsanitary and unsafe water conditions as well as unwarranted discoloration, degradation, damage and other imperfections of the swim spa surface and components.

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START UP STEPS

1. Your swim spa should be filled with fresh tap water using a Pre-filter, which can be obtained from your local Master Spas dealer. This Pre-filter will help remove many of the minerals existing in the water, which will make adjusting the water balance easier after a new fill. Never use more than 50% softened water when filling the swim spa.
2. During the initial filling of the swim spa, add a sequestering agent to combat suspended minerals in the water. The agents are sold under many different names such as Mineral Clear or Metal Protect. Always follow the instructions listed on the bottle and allow water to circulate and filter for at least 30 minutes (or per bottle recommendations) before adding any other chemicals.
3. Test water for pH, total Alkalinity, and Calcium hardness. There are two different methods you can use to test your water.

TEST STRIPS: The pads on these thin strips react by changing colors when you dip them in the swim spa water. To avoid faulty test results, use care when removing a testing strip from the packaging. Open the package and shake one strip out into your hand, avoiding contact if possible with the remaining strips. Seal the container immediately so the remaining strips are not exposed to moisture. Dip the test strip into the water and follow the instructions supplied with test strips as instructions may vary. Note the colors on your testing strip and compare these to the key found on the packaging to determine whether elements are neutral, too high or too low.

TESTING KIT: When using a testing kit, you will be examining an actual water sample from your swim spa, rather than a strip. Be careful to follow the instructions on your kit, filling the container to the appropriate level and then dropping the instructed liquid into the container. Compare the new color of your water to the key provided with the kit to determine how to proceed. Depending on which kit you purchase, it can test for each one of these elements: total alkalinity, pH, chlorine, bromine and calcium hardness.

4. Adjust pH and total Alkalinity (TA) utilizing the directions on the chemical bottles. Wait 15 minutes, test and adjust if necessary.
5. It may be necessary to retest and add additional chemicals to get to the proper levels.
6. Add concentrated chlorinating granules (sodium Dichlor-s-triazinetreone) on initial start up to begin sanitizing the swim spa water, according to directions on chemical bottle. Bathers should not enter the swim spa until the chlorine drops to a safe level, refer to Water Chemistry Guide in this section. It is important not to add the chlorinating granules until the pH, alkalinity and calcium hardness have been adjusted to their proper levels.

NOTE: See the Model Specifications section of this manual for the correct gallons of your swim spa, to ensure you are adding the correct amount of chemicals. When adding chlorine or non-chlorine shock/oxidizer always spread it across the water while the pumps are running. The concentration of active ingredients in swim spa chemicals varies by manufacturer.



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BEFORE EACH USE

Test the swim spa water for proper sanitation levels and adjust accordingly to the proper levels outlined in the Water Chemistry Guide, found in the Water Maintenance – Recommended Ranges section. Appropriate levels should be present before use of the swim spa. Bathers should not enter the swim spa if the chlorine levels are outside of the safe, recommended ranges.

AFTER EACH USE

Test water and treat accordingly to maintain proper pH and free chlorine levels for continued sanitary conditions after use. The amount of people using the swim spa (and duration of use) will deplete chlorine levels and can cause free chlorine to test below total chlorine, resulting in a more frequent need to use an oxidizer/non-chlorine shock treatment.

3 TIMES A WEEK

Test the water. Adjust sanitizer, pH and Alkalinity accordingly, following directions on the chemical manufacturer's bottle. If free chlorine level measures less than total chlorine level, additional non-chlorine shock/oxidizer treatment is necessary.

ONCE A MONTH

Soak your regular filter elements overnight in a container with swim spa Filter Cleaner and then rinse with clean water. For best results, allow the filter to dry before re-inserting. (The EcoPur® element should never be cleaned in a filter cleaner. Just rinse with water.) When cleaning filters, be sure to never have the pumps (including the circulation pump) running without the filters in place. Failure to do so may result in debris being drawn into the pumps causing unwarranted damage. See Cleaning Your Filter Elements in the Maintenance section of this manual for more information.

EVERY 180 DAYS

Drain and refill your swim spa with fresh water, install a new EcoPur® element, clean the regular filter, and repeat start up procedure. The regular filter should be replaced at least once every year. Over time and bather use, biofilm buildup can occur. Chemical products are available to help remove biofilm and should be used periodically before draining.

AS NEEDED

If the water looks hazy, make sure pH is in the proper range and treat with chlorinating granules to maintain free chlorine levels. Treat with non-chlorine shock (oxidizer shock) if free chlorine is less than total chlorine. Always refer to the chemical manufacturer's dosage recommendations listed on the container. Free chlorine levels should be maintained per the Water Chemistry Guide.

A defoamer may be used when excessive foaming occurs. Over use of a defoamer will result in cloudy, milky water. These are general recommendations for water maintenance that may vary by usage and bather load. Depending on bather load and frequency of use, drain and refill times may vary as well as the frequency of cleaning your filters.

USE ONLY SWIM SPA CHEMICALS

Do not use chemicals designed for use in swimming pools.

With a swim spa you are working with a small volume of hot water compared to a large volume of relatively cool water in a swimming pool. Because of this, chemicals will have a shorter life span and bacteria can grow more quickly than in a swimming pool. A swim spa is less forgiving than a pool and requires that whatever is put into it have a pH as close to neutral as possible. That is why only chemicals made for swim spas should be used. Always refer to the chemical manufacturer's dosage recommendations listed on the container.

WATER MAINTENANCE – TROUBLESHOOTING GUIDE

EN 17125

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PROBLEM	POSSIBLE CAUSES	HOW TO FIX IT
CHLORINE ODOR	Excessive chlorine	Shock water with oxidizer/non-chlorine shock treatment
	Low pH	Adjust pH if necessary
WATER ODOR	Low levels of sanitizer	Adjust sanitizer level with chlorinating granules
	pH out of range	Adjust pH if necessary
	Bacteria or algae growth	If sanitizer has already been adjusted, it may be necessary to perform a system flush
CLOUDY WATER	Dirty filters or inadequate filtration	Clean filters with filter cleaner and adjust filtration
	Unbalanced water chemistry	Test and adjust chemistry levels
	Old water	Drain, clean inner shell and refill with filtered water
CLOUDY AND GREEN WATER	Total alkalinity levels are low	Use a pH increaser
	Sanitizer levels are low	Apply oxidizer/non-chlorine shock treatment and adjust sanitizer
CLEAR GREEN WATER	High iron or copper content	Use a sequestering agent
	Sanitizer levels are low	Apply oxidizer/non-chlorine shock treatment
BROWN WATER	High iron or manganese level	Use a sequestering agent
FOAMING	High levels of body oils, lotions, soap, etc.	Add small amount of defoamer, an enzyme product and check water chemistry
	Low calcium hardness	Use a calcium hardness increaser
	Unbalanced water chemistry	Test and adjust chemistry levels
EYE OR SKIN IRRITATION	Unsanitary water	Adjust water chemistry according to testing results
	Total chlorine level above 5 ppm	Apply oxidizer/non-chlorine shock treatment
	Poor sanitizer/pH levels	Adjust pH level as necessary
SCUM DEPOSITS AT WATERLINE	Body oils and dirt	Use multi-purpose cleaner to clean swim spa surface and add enzyme product to swim spa water
CHALKY, WHITE SCALE DEPOSITS	Minerals present in the water and lack of sequestering agent use	When swim spa is drained, use a multi-purpose cleaner or white vinegar and scrub with a soft cloth
PITTING OF METAL FIXTURES	Low pH or total alkalinity	Check water chemistry and adjust

NOTE: Please refer to the Water Maintenance - Recommended Ranges section to review recommended chemical levels.

REGULAR MAINTENANCE PROCEDURES

EN 17125

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NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

DRAINING YOUR SWIM SPA

Due to the physical size of the swim spa, we recommend draining your swim spa with a submersible sump pump. Draining your swim spa with a conventional spa drain is not a reasonable option. When draining the Momentum 80 swim spa always drain the water from the spa side before draining the swim side. Your swim spa requires periodic draining and cleaning to ensure a safe, healthy environment. It is recommended that you clean your swim spa at least every 180 days. Heavy bather load will require cleaning it more often.

NOTE: If your swim spa required multiple electrical services, be sure to turn off breakers for all services powering the spa equipment. See model specifications and appropriate electrical requirements for your model or contact your electrician if you are not familiar with how your electrical was installed. A breaker or power cut off should always be within line of sight.

Caution and careful planning should be taken if draining in freezing temperatures to ensure the process is performed quickly and that the water is either refilled quickly again or winterization steps are immediately performed. Try to plan your normal draining maintenance during times when temperatures are above freezing. Excess water in the plumbing can freeze in a short time frame depending on temperatures and conditions. Water freezing within plumbing and components can result in freeze damage which is not warranted.

STEPS FOR USING A SUMP PUMP*

1. Carefully lower submersible pump with hose connected into the bottom of swim spa, taking care not scratch or gouge your swim spa shell.
2. Run the discharge end of the hose from your submersible pump to a desired location several feet away from your swim spa, where the water will drain away from foundation that the swim spa is resting on.
3. Plug in/turn on your submersible pump. Once it is no longer able to suck up any further water (indicated by a suctioning sound and water no longer coming out of the drainage hose), turn off/disconnect your submersible pump. If you plan to fully wipe down and clean your entire swim spa shell, use a shop vac to remove the remaining small pockets of water in the swim spa. *Sump Pump is not provided with swim spa.

SWIM SPA SURFACE CARE

- During use, always remove debris and pollutants that have settled in the water or built up on the swim spa surfaces as it occurs. These pollutants can cause growth of bacteria, algae, fungus or biofilm if left on the swim spa surface and potentially cause stains.
- Clean the swim spa shell, jets and other controls with a soft cloth and swim spa shell cleaner to help remove residue and buildup on the shell surface. For any remaining buildup, white vinegar or mild scale remover product may be necessary to use with a soft cloth for removal. Consult with your local Master Spas dealer for proper swim spa cleaning products.
- Rinse the cleaned surfaces with fresh water from your garden hose and wipe with a soft cloth as doing so will help to remove residual cleaning agents (as some may cause foaming to occur in the water once swim spa is refilled).
- Always use an approved insulating swim spa cover by Master Spas to cover your swim spa when not in use, especially in outdoor installations where the swim spa is exposed to weather conditions and sun. Constant, prolonged exposure and use of unapproved or non-insulating swim spa cover can result in damage to swim spa surface which would not be warranted.

REFILL YOUR SWIM SPA

- If filling the Momentum swim spa, always fill the swim side of the unit before filling the spa side.
- Refer to the Water Maintenance Start-Up section for specific instructions.

DO NOT DIVE.

REGULAR MAINTENANCE PROCEDURES

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NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.



CLEANING JETS

The majority of jets in your swim spa can individually be turned on/off. If any of these jets become hard to turn, it will be necessary to remove the jet to clean it as grit/sand and mineral deposit may be present.

The jets in your swim spa can be removed for cleaning by turning them counter-clockwise until they release and then pulling out the jet.

TO CLEAN JETS: Place the jet(s) in a container, fully immerse in white vinegar. Let the jet(s) soak overnight and then rinse with water. It may be necessary to clean grit and deposits from the white jet body (mounted in the swim spa shell) by using a small bristled brush.



EN 17125, Do not put finger in massage jet

CLEANING DIVERTER VALVES

Mineral deposits, grit and sand may get into the internal parts of the diverter valves over time. The diverter valves may become difficult to turn or not turn at all.

CAUTION – TURN OFF SWIM SPA BEFORE PROCEEDING WITH THIS MAINTENANCE.



FOLLOW THE STEPS BELOW:

1. Remove the handle from the top of diverter valve by grasping the handle and pulling up with a rocking motion.
2. Turn the cap piece counter-clockwise. It may be necessary to put a clean towel over the cap and turn it with a wrench.
3. Once loose, the cap, internal rotor assembly and handle can be pulled up out of the white plumbing fitting.
4. Wipe down the internal rotor assembly that attaches to the cap and handle.
5. Soak the internal rotor assembly in white vinegar.
6. The inner wall of the white plumbing fitting should also be wiped down. If the surface of the white plumbing has become too abrasive, you can take wet, fine sandpaper and smooth it out.
7. Rinse the diverter internals. Inspect O-rings for cracking or swelling and apply silicone lubricant to them. Then reassemble.

NOTE: It is helpful to turn the diverter valve only when the pump is not on. Cleaning your diverter valve should occur every time you drain your swim spa. Refer to Draining Your Swim Spa in the Regular Maintenance Procedures section.

REGULAR MAINTENANCE PROCEDURES

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NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CARE OF LAMINAR FLOW JETS

In order to keep your Laminar Flow Jets operating properly, follow these steps:

1. Turn off Laminar Flow Jets.
2. Remove outer ring by turning face counter-clockwise.
3. Either the whole Laminar Flow Jet Assembly pops out: Rinse it out and inspect it.

Or, if only the outer ring comes off: Remove internal Jet insert with a pair of needle nose pliers and inspect it.



OR



4. Clean plastic diffuser at the back of the Jet insert or Laminar Flow Jet Assembly so all holes are free of debris.
5. Reinstall Jet insert or assembly and outer ring by pushing it in and turning it clockwise until it stops.



EN 17125, Do not put finger in message jet

NOTE: To prevent premature failure of your swim spa cover and the possibility of water running out of the swim spa off the bottom of the cover, always turn Laminar Flow Jets down so that they do not hit the cover when the cover is closed. You do not want to completely turn jets off. Doing so may cause a build up of stagnant water in the water line if not used often.

CLEANING YOUR FILTER ELEMENTS

The filter elements are one of the most important components of your swim spa. Not only are they essential for clean water; they also extend the life of the swim spa equipment and help avoid unnecessary water changes and re-heating. Your filter elements should be cleaned on a regular basis, at least once a month on average with normal usage. With heavy use, poor water quality and/or high dissolved solid content in water; the filters may need to be cleaned more often. It is recommended to allow filter elements to fully dry after cleaning. For this reason, it is ideal to have a spare set of filters on hand for filter cleaning intervals.

1. Turn off the swim spa before servicing filters. Never leave to the swim spa running when removing the filters. Debris can be pulled into the plumbing system and cause unwarranted damage.
2. Remove any large or floating debris from the filter area. Next, match your filter housing to the following photos on the next page to finish steps for removing filter element(s).

REGULAR MAINTENANCE PROCEDURES

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

Filter Weir with Top Access



Remove Filter Lid



Turn Filters Counter-clockwise to Remove

NOTE: EcoPur 2-piece set is typically placed in the filter housing on the same side as the topside control panel in the space closest to the topside control panel.

Vane Teleweir Filter Housing



Pull Up to Remove Floater Assembly



Turn Filters Counter-clockwise to Remove

CLEANING YOUR FILTER ELEMENTS (continued)

3. With a garden hose, spray each element under pressure. Monthly, the standard filter elements should be soaked in a filter cleaner. Do not soak EcoPur® element in a filter cleaner. The EcoPur® element should only be rinsed with fresh, clean water if necessary. Check with your Master Spas dealer for details on cleaning and/or filter replacement recommendations.
4. The EcoPur® element should be replaced every 6 months. The standard filter should be cleaned regularly and will typically last approximately 1 year. Bather load, usage and water quality will effect the longevity of the filters and require more frequent cleaning or replacement.

CLEANING THE CLEAR ACRYLIC DIVIDER (Momentum)

- The surface should be first flushed with clean water to remove loose abrasive particles. The clear acrylic sheet should then be gently sponged with a mild soap/water solution and finally rinsed with clean water. Care must be taken not to leave any of the soap residue in the swim spa as it could cause the swim spa water to foam during operation.
- Drying can be done with a clean soft cotton towel. Avoid hard rough cloths or paper towels since they can put fine scratches on the acrylic surface.
- Do not use any aggressive solvents (lacquer thinner, gasoline, acetone and etc.) on the clear acrylic sheet. These products can cause damage to the sheet that may not be visible until days or weeks later.
- Window glass cleaning compounds are not recommended. Cleaning products that contain any type of abrasive material should not be used.

REGULAR MAINTENANCE PROCEDURES

▶ WATCH HOW-TO VIDEOS: masterspas.com/video-tutorials

Note: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CARE OF ACRYLIC LED LIT HANDRAILS

Special care should be given to the Acrylic LED Lit Handrails so that they maintain their attractive appearance and durability for the life of your swim spa.

- During draining and cleaning process, wipe down the handrails with a mild dishwashing detergent or spa shell surface cleaner and a clean soft cloth, applying light pressure. Rinse with clean water and blot dry with a dry soft cloth. Remove as much residual soap as possible from swim spa to prevent foaming when refilled.
- Scale and mineral (i.e. calcium) buildup can be removed using white vinegar and soft cloth. Rinse with clean water and blot dry with a soft cloth.
- Maintain the surface gloss of the acrylic and lessen scratches by occasionally polishing with a plastic cleaner and polish. Apply a thin even coat with a clean soft cloth and polish lightly with cotton flannel. Then wipe with damp, soft cloth. This is recommended to do after swim spa is drained for cleaning.
- To remove deeper scratches, first sand lightly with 400-grit wet sandpaper, using plenty of water and rinsing the sandpaper often. Next, follow the steps for applying plastic polish above (if necessary, do so when swim spa is drained).

NOTE: Do not use window cleaning spray, kitchen scouring compounds, or solvents such as acetone, gasoline or lacquer thinner. The clear handrail does have limited resistance to Isopropyl alcohol up to 50% grade. If used, limit the exposure time to prevent damage and do not expose to more than 50% grade.

CARE OF YOUR SWIM SPA PILLOWS

- Your swim spa pillows should be rinsed periodically to remove chemical residue. This helps improve pillow lifespan and slows down deterioration of the pillows (i.e. discoloring, becoming stiff and flaking of the material).
- If the swim spa will not be used for a period of time, the pillows could be removed and rinsed to prolong their life.

NOTE: Do not cover the swim spa for 15 minutes after adding chemicals as the off gas can cause damage.

REGULAR MAINTENANCE PROCEDURES

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NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CARE OF STAINLESS STEEL

Master Spas uses stainless steel in a number of our swim spas. Its lasting beauty and resistance to corrosion make it an excellent material for handrails and jets faces. With the proper care it will keep its luster for many years. All stainless steel can corrode given the right circumstances so we have provided a guide to help you keep the stainless components in your swim spa looking nice. Stainless steel derives its ability to resist corrosion by forming a very thin transparent coating on the surface when exposed to oxygen. This coating can be damaged by abrasive materials such as steel wool, sand paper, and other cleaning materials that are abrasive. Chlorine salts, sulfides, or other rusting metals can also erode this thin coating exposing the metal to corrosion. The best defense to combat corrosion on stainless steel components in your swim spa is make sure that it is kept clean and free of any chemical build up.

Always:

- Clean frequently with fresh, clean water.
- Remove any rust spots as soon as they appear with vinegar or a brass, silver, or chrome cleaner.
- Use a good car cleaning wax for extra protection.
- Leave cover removed for at least 15 minutes after adding chemicals to the swim spa water.

Never:

- Clean with mineral acids or bleaches, steel wool or any other abrasive materials.
- Leave in contact with iron, steel any other metals.
- Close the cover immediately after adding chemicals to the water.

NOTE: Failure to take proper care of the stainless steel components could result with them rusting. Rusting is not covered by the warranty.

NOTE: Do not cover the swim spa for 15 minutes after adding chemicals as the off gas can cause unwarranted damage. Larger dosages can require longer lengths of time to off gas. It is recommended to check swim spa water more frequently to allow small dosages be added as necessary versus large dosages being added less often.

CARE OF YOUR SWIM SPA CABINET

The swim spa cabinet is made from a UV resistant material. The cabinet requires only periodic cleaning with a stream of water from a garden hose. If necessary, use mild soap and water with soft cloth to wipe down cabinet surface. Rinse thoroughly.

REGULAR MAINTENANCE PROCEDURES

▶ WATCH HOW-TO VIDEOS: masterspas.com/video-tutorials

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CARE OF YOUR SWIM SPA COVER

Always cover your swim spa when not in use with an approved insulating swim spa cover by Master Spas. Keep the swim spa cover on to minimize heat loss during heating of the swim spa between uses (but not while it is being used). This will greatly reduce energy consumption and will cause swim spa water to heat more rapidly. Water loss and chemical usage will also be reduced.

- Ensure the cover is fitted tightly, as per manufacturer's instructions to maximize insulation.
- Be sure to lock down all straps on the cover after each use.
- Do not allow swim spa to sit uncovered in direct sunlight. The heat and UV from direct sun exposure can cause damage to exposed shell surfaces of the swim spa as well as damage or discoloration of the swim spa controls and fittings.
- See cover manual instructions for detailed instructions on proper cover care. Clean the cover at least once a month using mild soap and water. Rinse thoroughly with fresh water to remove pollutants and soap residue. If mold/mildew staining has occurred (particularly on bottom of the cover), a mixture of bleach and water used with a soft cloth may be necessary. Thoroughly rinse with fresh water after cleaning.
- Keep cover open for 15 minutes after adding chemicals to prevent excessive off gas buildup and damage.
- When the swim spa is being used, the cover should be placed in a clean, dry area, otherwise it can pick up dirt and bacteria. Covers should not be put on wooden tables or wooden decking because of the risk of bleaching the wood.
- The use of a cover lift accessory or other device ensures the cover will not come into contact with the ground and retains its cleanliness (particularly the surface in close proximity to the swim spa water surface). The cover should be stored in an appropriate location, where it cannot be damaged, or cause damage.

NOTE: If your swim spa is going to be left empty for prolonged periods, do not place cover directly on the swim spa's surface (closed and sealed). Instead, place a 1" block of high density foam between the cover and the swim spa. This allows for ventilation to help reduce mold and mildew from occurring while the swim spa is empty.

NOTE: The cover warranty is not part of the limited warranty provided with the swim spa. It is provided through the cover manufacturer and may not be through Master Spas. Check the tags and labeling on your cover to verify manufacturer and refer to the manufacturer's care, maintenance and warranty information. Your dealer can help provide you with these details.

NOTE: Always use the water feature controls to turn down the water flow so that the water features do not hit the cover when the cover is closed. Do not turn them all the way off.

CARE OF YOUR OZONE SYSTEM

The ozone hose and check valve connecting between the ozone generator and ozone injector should be inspected and/or replaced, if necessary, every 12 months. Depending on conditions of the air which is being brought in to the ozone generator, the ozone hose and check valve can wear more rapidly. This regular maintenance is not covered under the swim spa warranty. We recommend that your Master Spas Dealer or service organization be contacted to perform this type of maintenance.

REGULAR MAINTENANCE PROCEDURES

▶ WATCH HOW-TO VIDEOS: masterspas.com/video-tutorials

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CARE OF EXERCISE EQUIPMENT

The included* exercise equipment accessory package makes it easy to exercise in your own backyard. This kit is located in a box inside your swim spa cabinet near where you found your owner's manual and manufacturer warranty documents. There are shell mounted clips that are used to fasten the rowing equipment to the swim spa. These clips are located along the sides of your swim spa next to the grab rails that are placed around the perimeter of the swim area. Be sure to read the included materials for instructions on utilizing this equipment in your swim spa.

CAUTION: Do not leave exercise equipment inside the swim spa when not in use. Rinse equipment with fresh water and dry after uses for best longevity. Do not leave exercise equipment outside exposed to sun and UV. Failure to follow the above guidelines could result in injury.

CAUTION: Inspect exercise equipment before each use for deterioration and unsafe conditions. Do not use if significant deterioration and unsafe conditions exist (i.e. cracking and break down in bungee strap material caused by use, water conditions and care). Replacement exercise kits can be purchased through your Master Spas dealer. Failure to follow the above guidelines could result in injury.

*The exercise equipment package is not included from factory with some Therapool models. If you would like this package, please contact your local Master Spas dealer to purchase it.

SWIM SPA TROUBLESHOOTING GUIDE

NOTE: For wiring outside of U.S. and Canada, GFCI may be referred to as a RCD (residual current device). Be sure all local electrical codes are followed.

GFCI IS TRIPPING

A ground fault circuit interrupter (GFCI) is required by the National Electrical Code for your protection. The tripping of the GFCI may be caused by a component on the swim spa or by an electrical problem. Electrical problems include but are not limited to, a faulty GFCI breaker, swim spa component, power fluctuations, and/or improper wiring. If this is a new electrical service and GFCI installation, an instantly tripping GFCI may likely be caused by improper wiring of the load neutral from the GFCI to the swim spa. It may be necessary to contact an electrician if your Master Spas dealer recommends doing so.

NOTHING ON THE SWIM SPA OPERATES

1. Check the control panel display for any messages. If there is a message, refer to the diagnostic section on that model swim spa. There, you will find the meaning of the message and what action is to be taken.
2. If there is no message on the control panel and the control panel is completely dark (off), try to reset the GFCI breaker.



The GFCI should be located in a weather proof box within sight from the swim spa, but not close enough to reach from within the swim spa (consult NEC and licensed electrician).

NOTE: If your swim spa requires 2 independent electrical services (shown in the Model Specifications and appropriate Electrical Requirements Configuration), be sure to check all breakers for your swim spa.

If the swim spa does not respond, or the GFCI breaker continues to trip, contact your local Master Spas dealer or service organization.

SWIM SPA NOT HEATING

If the swim spas heater has failed, the majority of the time it will trip the GFCI breaker. If the swim spa is not heating and has not tripped the breaker, please follow these steps:

1. Check water set temperature at control panel to make sure it is set to desired temperature, above the current water temperature.
2. Check the “Heat Mode” that the swim spa is set in. The swim spa should be set in the Standard Mode or Ready Mode depending on the model. If Rest or Economy Modes are enabled it will change the way the swim spa heats and primarily only heat during the user programmed timing. See the swim spa control section for heating modes such as rest or economy programming details.
3. Check the control panel for heat indicator. If heat indication is on, wait a reasonable amount of time (at least 3-4 hours) to see if the water temperature is rising.
4. If heat indicator does not remain on, the system should be displaying a message indicating why it can't heat. Check the control panel for diagnostic messages. Refer to Spa Control Section titled System Related Messages. Follow steps to alleviate the message.
5. Reset power to the swim spa at GFCI breaker.
6. Check the control panel for heat indicator. If the heat indicator is on, wait a reasonable amount of time (at least 3-4 hours) to see if the water temperature is rising.
7. If swim spa is still not heating, contact your local Master Spas dealer or service organization.

SWIM SPA TROUBLESHOOTING GUIDE

WATER TEMPERATURE IS ABOVE SET TEMPERATURE (HEAT CREEP)

Because Master Spas swim spas are well insulated and built to meet stringent energy standards, heat creep can occur. This means that the measured temperature of the water in your swim spa is creeping up higher than the set temperature on your control panel. Heat creep can occur as outdoor temperatures become moderate to warm or when your filter cycle durations have been adjusted above the default settings. To help manage heat creep:

1. **Vent your cover.** This means placing a folded cloth about $\frac{3}{4}$ inches (2 cm) thick under all four corners of the cover before you lock the cover down.
2. **Open your cover.** Opening the cover at night will also quickly cool the water down if desired. **NOTE:** Never leave a swim spa cover open and unsupervised.
3. **Open all air controls.** Temporarily leave the air controls open during cooler times of the day or night. Set your filtration cycles to run during this time as well.
NOTE: If the heat creep issue has been resolved, close the air controls when not using the swim spa to reduce energy and chemical maintenance.
4. **Reduce the length of your filter cycles.** The default duration is generally 4 hours of filtering per day (either a duration of 2 hours that occurs twice per day or one 4-hour filter duration based on time of day).
5. **Visit your local Master Spas dealer for additional guidance.** Heat creep can happen on well-insulated swim spas, and is related to the environment where the swim spa is installed and equipment runtimes such as extended filter cycle durations (especially on systems using Therapy Pump 1 low speed for filtering and heating). This is not indicative that there is a problem with the swim spa.

PUMP(S) DO NOT OPERATE

1. Press the “Jets” button on your control panel.

If you hear the pumps trying to operate:

- A. Check that all the slice valves are open.
- B. Pump may need to be primed.

Refer to Installation Instructions section. If you do not hear anything from the pump, contact your local Master Spas dealer or service organization.

NOTE: If the pump(s) had been operating for 15 minutes or longer prior to ceasing operation, it may be normal and simply related to mild or warmer temperature conditions and excessive internal temperatures occurring from prolonged pump run time. The spas are built to meet stringent energy efficiency standards and to run at full capacity during the 15 minute safety timeout periods. Operating pumps at high speed repeatedly beyond the 15 minute timeout can result in the pump motor getting too warm and shutting itself off to cool down. This would be seen by the control indicating the pump should be one still, but the pump has shut itself off internally. If this thermal cutout occurs, the pump will remain off for several minutes to cool. Once the equipment area and motor cool down, it would begin operating again.

POOR JET PERFORMANCE

1. Make sure pump is operating.
2. Check that the water level is adequate (at least to minimum safe water level on sticker located near filter.)
3. Make sure the jets are open and the air controls are open.
Refer to Glossary of Swim Spa Technology section.

WINTERIZING & STORING YOUR SWIM SPA

WINTERIZING YOUR SWIM SPA

Your swim spa is designed to be used year round in any type of climate.

However, if you decide you don't want to use your swim spa in the winter, you must drain it and follow the winterizing steps listed below.*

DISCLAIMER: Master Spas does not recommend winterizing your swim spa. If you choose to do so, any damage that may result is not covered under the swim spa warranty.

1. Drain your swim spa. Refer to instructions in Regular Maintenance Procedures.
2. Use a shop vac to get all standing water out of your unit.
3. Remove access panels from equipment area.
4. Loosen all pump unions.
5. Remove winterizing plug from face of the pump(s) where applicable.
6. Using your shop vac in a blowing mode, insert the hose into the nozzle of each jet and blow the trapped water from the lines into the interior of the swim spa. A non-toxic, RV water line type antifreeze can be used and added to jets in each seat around your swim spa to help prevent freeze damage from occurring. Be sure to thoroughly flush the system before startup.
7. After this is completed, use the shop vac to remove any standing water in the swim spa and in the equipment area.
8. Clean the swim spa with a soft cloth and a non-abrasive swim spa surface cleaner.
9. Replace access panels.
10. Cover the swim spa to prevent water from entering it and check the swim spa periodically to be sure no water is entering and accumulating. Swim spa covers are a great insulator but will allow some precipitation to enter the swim spa. For this reason, it is highly advised to also cover the swim spa with a water tight tarp while winterized. It is beneficial to keep the swim spa cover slightly gapped off the acrylic shell while winterized to allow air flow in to the shell area to reduce mildew/mold buildup caused by trapped moisture.

* If you decide to winterize your swim spa, we recommend that you periodically check the swim spa throughout the winter to assure water is not entering the swim spa through or around the swim spa cover.

STORING YOUR SWIM SPA

The swim spa shell should never be left unprotected and uninsulated while being stored. Clear plastic wrap or similar material should never be used to cover/protect the swim spa.

Prolonged, direct sun heat can damage the surfaces of the swim spa along with any components on the swim spa's surface. Always keep the swim spa covered and protected with an insulating swim spa cover. Resulting damage such as cracking in the shell surface, warping or discolored components on the swim spa would not be warranted.

An empty swim spa should never be exposed to temperatures below 0°F (-18°C) after delivery as extreme cold can cause shell damage. This includes storage and draining (winterizing). If your swim spa will be exposed to these temperatures, keep the unit filled and running. If you do not plan to use your swim spa, you can set the swim spa to the lowest temperature setting allowed by the control system while in Standard/Ready Mode.

Failure to adhere to these guidelines may result in unwarranted damage caused to the swim spa.

MODEL SPECIFICATIONS

MODEL/LISTING NUMBER	SPA DIMENSIONS (ft./cm)	ELECTRICAL REQUIREMENTS	SEATING CAPACITY	WATER CAPACITY (gallons/m)	DRY WEIGHT (lbs./kilos)	15" FULL WEIGHT (lbs./kilos)	THERAPY PUMPS	SPA CONTROL	WARRANTY	PRIMARY ACCESS
H2X THERAPOOL SE / 1470	132" x 94" x 51" 336 x 239 x 130	Configuration # 2 240V, 50A GFCI	7	925 / 3,50	1410 / 640	10420 / 4727	2	TP500	Therapool	A
H2X THERAPOOL D / 7600	132" x 94" x 60" 336 x 239 x 153	Configuration # 2 240V, 50A GFCI	7	1060 / 4,01	1720 / 780	11860 / 5380	2	TP500	Therapool	A
H2X THERAPOOL 13 / 9914	156" x 90" x 48" 396 x 229 x 122	Configuration # 2 240V, 50A GFCI	4	1270 / 4,80	1785 / 810	13120 / 5951	2	TP500	Therapool	A
H2X THERAPOOL 15 / 9921	180" x 90" x 51" 458 x 228 x 130	Configuration # 2 240V, 50A GFCI	4	1620 / 6,31	2070 / 939	16325 / 7406	2	TP500	Therapool	A
H2X TRAINER 12 / 8300	144" x 94" x 51" 366 x 239 x 130	Configuration # 2 240V, 50A GFCI	5	1245 / 4,71	1915 / 869	13225 / 5999	2	FLXGO	Trainer/ Challenger	A
H2X TRAINER 15D / 1440	180" x 94" x 60" 458 x 239 x 153	Configuration # 2 240V, 50A GFCI	5	1895 / 7,17	2575 / 1168	19305 / 8757	2	FLXGO	Trainer/ Challenger	E
*H2X TRAINER 19D MAX / 9969		Configuration # 2 240V, 50A GFCI					2	FLXGO	Trainer/ Challenger	E
*H2X TRAINER 21 / 9970A - SPA, 9970B - SWIM	257" x 94" x 51" 653 x 239 x 130	Configuration # 6 DUAL (2) 240V, 50A GFCI	7 (5 - Spa) (2 - Swim)				4	FLXGO	Trainer/ Challenger	A&E
*H2X TRAINER 21D / 9971A - SPA, 9971B - SWIM	257" x 94" x 60" 653 x 239 x 153	Configuration # 6 DUAL (2) 240V, 50A GFCI	7 (5 - Spa) (2 - Swim)				4	FLXGO	Trainer/ Challenger	A&E
H2X CHALLENGER 15D / 9915	180" x 94" x 60" 457 x 239 x 153	Configuration # 2 240V, 50A GFCI	5	1930 / 7,30	2530 / 1148	19555 / 8870	3	FLXGO	Trainer/ Challenger	E
*H2X CHALLENGER 19D MAX / 9916		Configuration # 2 240V, 50A GFCI					3	FLXGO	Trainer/ Challenger	E
*H2X CHALLENGER 21D / 9972	257" x 94" x 60" 653 x 239 x 153	Configuration # 6 DUAL (2) 240V, 50A GFCI	7 (5 - Spa) (2 - Swim)				5	FLXGO	Trainer/ Challenger	A&E

*As configured from factory. See appropriate Electrical Requirements section for further details.

*Total bath capacity in swim spa. The number of bathers in swim spa should never exceed indicated seating capacity. Depending on swim spa size, water level and bather displacement, full seating capacity may not be achievable. Do not allow additional bathers to enter if bather displacement results in water levels overflowing or reaching the swim spa controls (air controls, diverters, swim spa topside control and etc.) as this will result in water leaking out of the swim spa shell and potentially in to the equipment area.

*Full weight based on dry weight of swim spa, max seating capacity of swim spa, assumed average weight per person of 185 pounds and estimated water weight of 8.34 pounds per gallon. Rounded up in increments of 5.
*Manufacturing tolerances along with other factors can result in variance in actual swim spa weight. If weight is a critical figure necessary for delivery, or final installation, we suggest a minimum of 15% be added to the listed weight when planning delivery or installation.

*Primary access panels, where the most swim spa equipment is located. All sides should be accessible or will need to be made accessible as needed for maintenance or service. However, this/these skirt panels will provide access to the majority of equipment. See Glossary of Swim Spa Terminology. Access Panels for access panel lettering reference.

***For additional specs not shown in this manual, please visit: <https://www.masterspas.com/hot-tub-owners-manuals/h2x-swim-spas>.**

Swim spa installation is simple when properly planned. It is important that you read the following information carefully and consult with your Master Spas dealer.

- 1. ACCESS:** The actual dimensions of your new swim spa will determine the amount of space that is needed in moving the swim spa from curbside to its final installation area. Be sure to consider and measure side yard dimensions, gates, doors, overall room dimensions and vertical obstructions such as ceilings, roof overhangs, balconies and overhead cables. Any other space limiting obstacles such as stairs, trees, and shrubs must also be evaluated. Consideration should also be taken to ensure there is convenient water supply for filling your swim spa (review national and local regulations). The desired location for swim spa might require use of a crane. Please be sure to contact and review these site and installation plans with your Master Spas dealer prior to delivery. It is also good to consider these access requirements for ease of removing the swim spa from the premises in the event it is necessary to do so.
- 2. SURFACE/PAD REQUIREMENTS:** When your new swim spa is filled with water and bathers, it may weigh as much as several tons. It is imperative that the base beneath the swim spa can support the entire weight. The swim spa must be on a uniformly firm, continuous, and level surface. The recommended foundation is a concrete pad with a minimum thickness of four inches with steel reinforcement bars crossed throughout the pad.

IMPORTANT

Consult experts and/or local authorities to review and comply with all local and national laws and regulations relating to childproofing, safety barriers, lighting and any other safety requirements at site. When installing your swim spa indoors, on a wood deck, roof or balcony, load requirements need to be evaluated before installation. It is also good to consider location and position of swim spa as well as surfaces and foundation to minimize noise disturbance as much as possible. You should speak with a qualified contractor or your local building department to confirm that your surface is adequate for supporting the swim spa and conforms to these guidelines.

All sides of the swim spa must be accessible for regular maintenance or in the event that service is needed. Periodical maintenance checks require entry into the equipment bay. When possible, it is wise planning for the future to leave 3 feet of access to all sides of the swim spa in the event your swim spa requires maintenance. Your swim spa warranty does not cover the cost of providing access for service.

GENERAL CONSIDERATIONS FOR OUTDOOR INSTALLATION

Again, proper planning will increase your total enjoyment factor with your new swim spa. Listed below are some additional items to consider when planning your installation.

- Local building codes (if applicable)
- Power cable
- Appropriate materials and drainage around the swim spa to handle water presence and runoff
- Consider local environmental conditions, such as ground water and risk of frost
- In cold climates, an insulating ground cloth can be installed between foundation and swim spa to minimize heat loss
- How swim spa will complement landscaping and vice versa
- View from inside swim spa and view of swim spa from inside of home
- Exposure to sunlight and shading from trees
- Privacy
- Getting to swim spa from the house and back
- Proximity to dressing rooms and bathrooms

SITE PREPARATION / GENERAL GUIDELINES

GENERAL CONSIDERATIONS FOR INDOOR INSTALLATION

Installing your swim spa indoors creates an entirely different set of considerations.

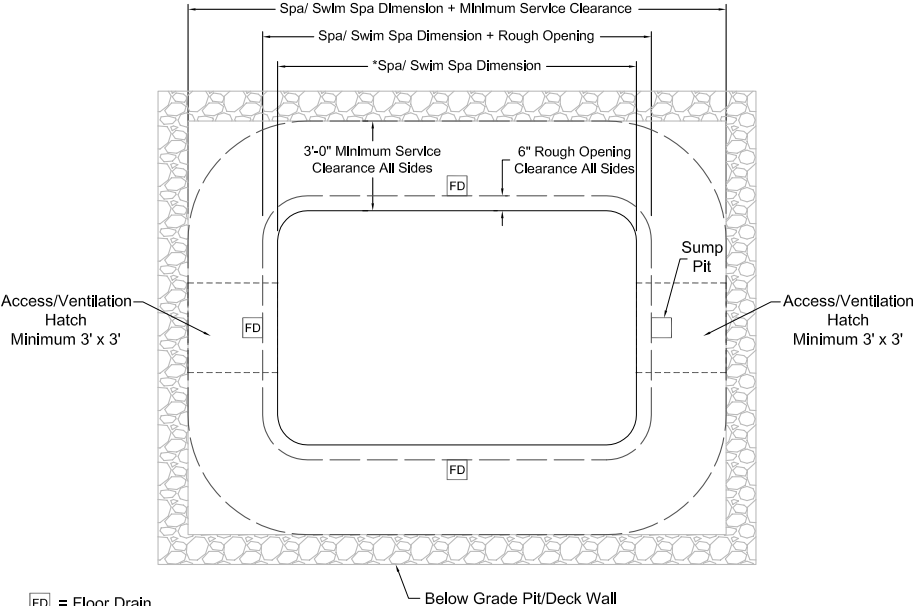
- Storage for swim spa chemicals
- Work with your Master Spas dealer and contractor to insure all local building, electrical and plumbing codes are met
- Plan for proper flooring and floor drains around your swim spa to drain off excess water runoff that will occur during normal use and for draining and cleaning your swim spa
- Proper room ventilation and dehumidification
- Finished materials in your swim spa room should also be capable of withstanding increased humidity and moisture

GUIDELINES FOR PARTIALLY OR FULLY RECESSED INSTALLATION

Swim spas manufactured by Master Spas are designed to be installed in a variety of settings. One of which is installing below grade. Should a swim spa be installed below the level of the site drainage system (below grade), a system for preventing water collecting and pooling must be designed based on the requirements of the local authority having jurisdiction. The drainage system must be designed based on things such as rainfall, water runoff, splashing, draining the swim spa, etc., that could potentially feed the below grade area with water. When located in designated floodways, additional attention to maximum water load entering the area below grade must be addressed to prevent water from accumulating below grade at all times. It is generally recommended that the swim spa be installed above grade because the swim spa is not designed to be submerged in water. When a proper drainage system is designed and proper ventilation is planned based on the characteristics of the site, installing the swim spa below grade is an accepted method of installation.

- The unit is self-supporting when placed on a surface designed to support the full load of the swim spa (see Surface/Pad Requirements). Do not backfill with sand, gravel, or earth. Doing so will void the warranty.
- Plan for complete drainage so that water accumulation drains away from the swim spa perimeter and standing water never reaches the electrical equipment.
- Plan for appropriate ventilation to remove moisture accumulation and to prevent equipment from overheating.
- Provide a minimum of 3 feet service area around the perimeter of the unit. Site access issues are not covered by the product warranty.
- The unit is not designed to be submerged in water. Water entering the equipment area creates many hazards and resulting damage will not be covered by the product warranty.
- Make sure that the surroundings do not create any additional hazards.
- Surfaces placed around the unit should also be evaluated for walking/slipping hazards from standing water. Proper drainage is vital to the installation of a below grade installation.
- Check all building, electrical, and plumbing codes with the authority having jurisdiction to ensure that your installation is in compliance with all local codes.
- Additional consideration needs to be made when installing unit in designed floodways.
- Verify that site specific drainage systems such as down spouts are not going to feed the area below grade.
- Below grade drainage system needs to be evaluated based on area specific rainfall. One size does not fit all so an analysis by a qualified, local engineer to ensure proper drainage of all sources of water is a must when installing below grade.

SITE PREPARATION/GENERAL GUIDELINES



- FD = Floor Drain
- = Access/ Ventilation Hatch (Min. 3' x 3')
- * = See "Model Specification" section of Owner's Manual for applicable Spa/ Swim Spa dimensions.

GFCI BREAKER REQUIREMENTS

CHALLENGER SERIES MODELS

If you do not have a Challenger model swim spa, this page does not apply to your swim spa and electrical installation.

The Challenger Series swim spa models require one of the following specific, compatible GFCI breakers to be used for reliable operation and prevention of nuisance tripping.

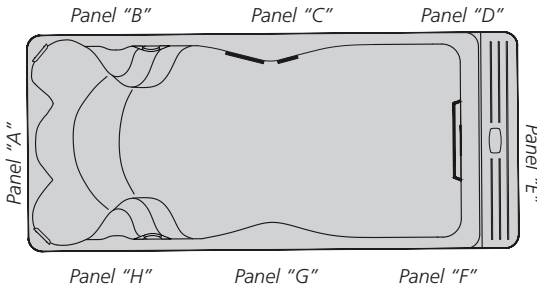
One of these two GFCI breakers MUST be used:

- Siemens 50 Amp Double-Pole Type QPF GFCI Circuit Breaker
- Murray 50 Amp Double Pole Type MP-GT2 GFCI Circuit Breaker

NOTE: Do not use Square D, GE or other brands of 50A GFCI Breaker.

For your convenience, one of these GFCI breakers is provided*. It is wrapped next to the exercise equipment box behind the skirting panel on the left side corner when facing the 8' spa seat end of the swim spa.

For access to this included GFCI breaker, remove skirting panels "B" and "C". It will be secured to the vertical frame supports. Open panel "B" first. Due to space limitations in some instances, with the exercise equipment box also secured along this side, the breaker may be secured behind panel "C".



*For H2X Challenger 19D and 18D Pro models which require two electrical supplies, a second GFCI is necessary and will need to be acquired before electrical hookup or supplied through your licensed electrician as electrical is installed. A compatible GFCI breaker MUST be installed on the 50A electrical service that connects to the Swim Side Spa Control System which runs the Challenger VMS Controls.

ELECTRICAL REQUIREMENTS

CONFIGURATION 2 - 240V, 50A GFCI

NOTE: Electrical requirements by model is shown in Model Specifications. Only electrical configurations pertaining to the models referenced in this manual are shown.

ELECTRICAL REQUIREMENTS

HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS

Electrical connections made improperly, or the use of wire gauge sizes for incoming power which are too small, may continually trip breakers, blow fuses in the electrical equipment box, damage the internal electrical controls and components, be unsafe and, in any case, will void your warranty.

It is the responsibility of the swim spa owner to ensure that electrical installation supplying, and connecting to the swim spa, is performed by a properly qualified, licensed electrician in accordance with all applicable local, regional, state requirements, and current effective edition of the National Electrical Code at the time of installation. Due to the product being built to comply with varying countries, regions and related standards, there may be labels on the product with specifications for installation/wiring that may not apply to your country or local standards. Refer to local, applicable standards.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 60Hz. alternating current only, 120/240 volts are required. Make sure that power is not applied while performing any electrical installation. A bonding lug has been provided on the electrical equipment pack to allow equipotential bonding connection for bonding conductors. The bonding conductor shall be at least 10 AWG copper and must be connected according to the current effective and applicable local, regional, state and edition of the National Electrical Code. The swim spa requires a 50-amp, single phase, 120/240 volt, four wire supply (two ungrounded line conductors, one grounded neutral conductor and one grounding conductor). The disconnect must be readily accessible to the swim spa occupants but installed at least five feet from the swim spa. A Ground-Fault Circuit Interrupter (GFCI) must be used to comply with section 680-42 of the National Electrical Code. A ground fault is a current leak from any one of the supply conductors to ground. A GFCI is designed to automatically shut off power to a piece of equipment when a ground fault is detected, and, its operation, should be tested frequently before use.

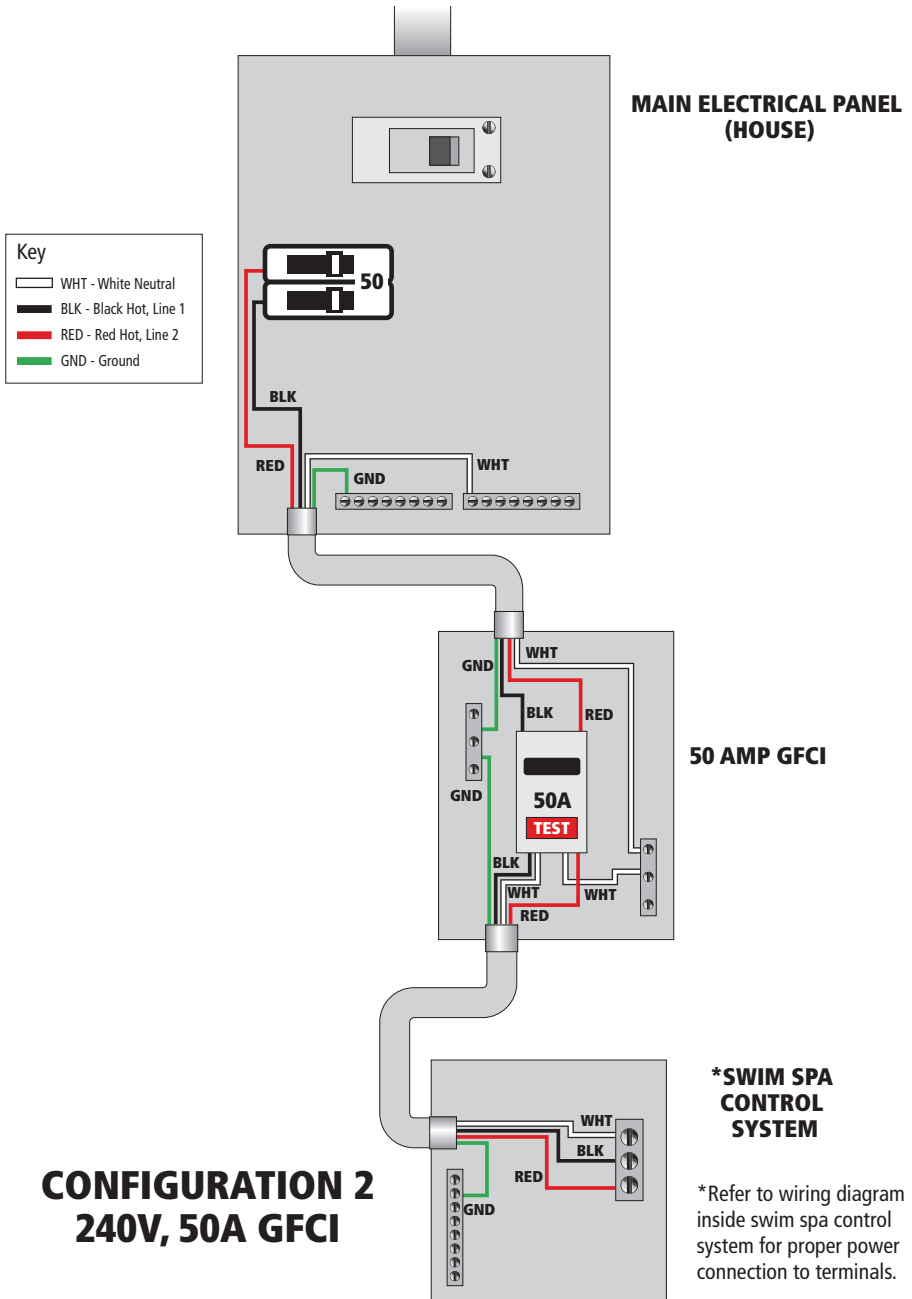
The electrical supply to the swim spa must be an individual branch circuit 120/240V, 50A, 4 wire, with ground (#6 AWG copper with minimum #10 AWG copper ground).

Route the electrical supply into the equipment area, by cutting an appropriate opening either through the bottom or side cabinet, for final hook-up to terminals inside the swim spa control system. The swim spa must be connected to an "individual - dedicated" 120/240-volt, 50-amp breaker and GFCI. The term "individual - dedicated" means the electrical branch circuit for the swim spa is not being used for any other electrical loads (i.e. patio lighting, appliances, garage circuits, etc.). If the swim spa is not connected to an individual-dedicated branch circuit, overloading may result in "nuisance tripping" which will require resetting of the breaker at the house electrical panel.

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ELECTRICAL REQUIREMENTS

CONFIGURATION 2 - 240V, 50A GFCI



ELECTRICAL REQUIREMENTS

CONFIGURATION 6 - DUAL 240V, 50A GFCI SERVICES

NOTE: Electrical requirements by model is shown in Model Specifications. Only electrical configurations pertaining to the models referenced in this manual are shown.

ELECTRICAL REQUIREMENTS

This configuration requires 2 independent, dedicated services. Dual 240V, 50A GFCI Services

HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS

Electrical connections made improperly, or the use of wire gauge sizes for incoming power which are too small, may continually trip breakers, blow fuses in the electrical equipment box, damage the internal electrical controls and components, be unsafe and, in any case, will void your warranty.

It is the responsibility of the spa owner to ensure that electrical installation supplying, and connecting to the spa, is performed by a properly qualified, licensed electrician in accordance with the with all applicable local, regional, state requirements, and current effective edition of the National Electrical Code at the time of installation. Due to the product being built to comply with varying countries, regions and related standards, there may be labels on the product with specifications for installation/wiring that may not apply to your country or local standards. Refer to local, applicable standards.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 60Hz. alternating current only, 120/240 volts are required. Make sure that power is not applied while performing any electrical installation. A bonding lug has been provided on the electrical equipment pack to allow equipotential bonding connection for bonding conductors. The bonding conductor shall be at least 10 AWG copper and must be connected according to the current effective and applicable local, regional, state and edition of the National Electrical Code. The swim spa requires two 50A electrical supplies. Each electrical supply must be a single phase, 120/240 volt, four wire supply (two ungrounded line conductors, one grounded neutral conductor and one grounding conductor). The disconnect for each electrical supply must be readily accessible to the swim spa occupants but installed at least five feet from the swim spa. Ground-Fault Circuit Interrupters (GFCI) must be used to comply with section 680-42 of the National Electrical Code. A ground fault is a current leak from any one of the supply conductors to ground. A GFCI is designed to automatically shut off power to a piece of equipment when a ground fault is detected, and, its operation, should be tested frequently before use.

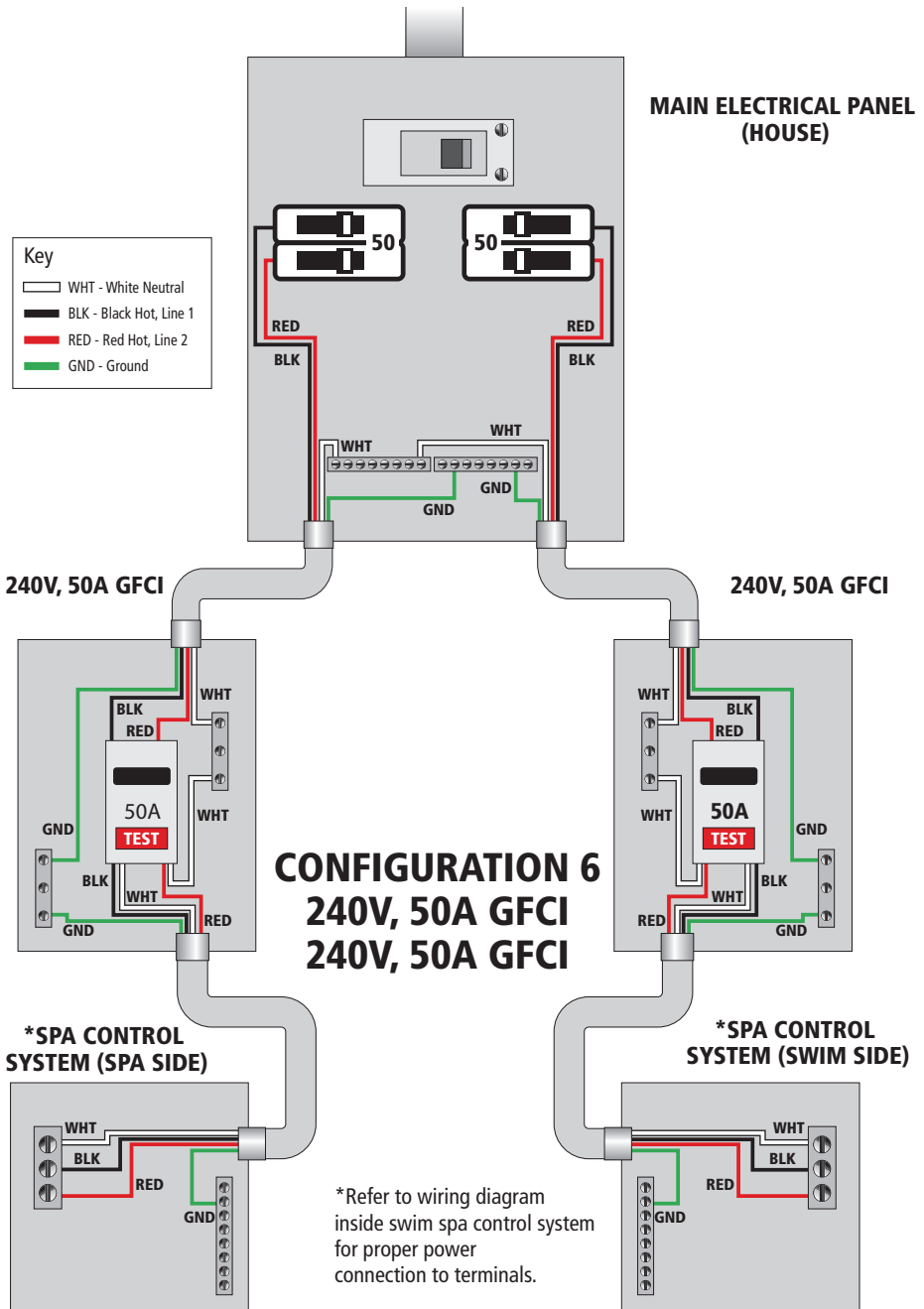
Each of the, 2 required, 50A GFCI protected electrical supplies must be an individual branch circuit 120/240V, 50A, 4 wire, with ground (#6 AWG copper with minimum #10 AWG copper ground).

Route the electrical supplies in to the swim spa, by cutting an appropriate opening either through the bottom or side cabinet, to the each swim spa control system (2 independent control systems, one for the swim side and one for the spa side) located inside the swim spa behind skirt cabinet access panel "A" (see Glossary of Swim Spa Terminology). Refer to the wiring schematic inside each swim spa control system for proper power connection to terminals. Each must be an "individual - dedicated" electrical supply. The term "individual - dedicated" means that each electrical branch circuit for the swim spa is not being used for any other electrical loads (i.e. patio lighting, appliances, garage circuits, etc.). If the swim spa is not connected to an individual-dedicated branch circuit, overloading may result in "nuisance tripping" which will require resetting of the breaker at the house electrical panel.

202502

ELECTRICAL REQUIREMENTS

CONFIGURATION 6 - DUAL 240V, 50A GFCI SERVICES



INITIAL SWIM SPA SETUP

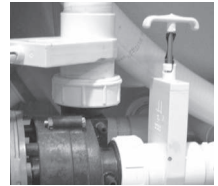
EN 17125

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SETUP STEPS

1. Put swim spa in final position that allows for access to equipment and swim spa components. Master Spas recommends that at least 3 feet of space be provided around all sides of the swim spa for access. This provides adequate space for regular maintenance and service.
2. Remove the access skirt panels to access the electrical connections inside the swim spa. The junction box (MP Swim Spas Only), swim spa control system(s) and majority of the equipment in your swim spa can be accessed by removing either panel "A" or "E" or both. See Equipment Access Panel in Glossary of Swim Spa Terminology and Model Specifications to determine the appropriate access panels for your swim spa.

3. Be sure all pump and heater unions are secure. Each pump has 2 unions and the heater has 2 unions. A newly delivered swim spa may have loose unions caused in transporting the swim spa. Check that all slice valves are open, in the up position. The slice valves may become closed during transportation of the swim spa.



Slice Valve and Pump Union

4. Fill swim spa to the minimum water level label indication located on the swim spa shell near the filter area or at least 1' above the filters or filter housing opening. We recommend filling the swim spa through the filter area to help reduce air locks from occurring in the filter and heating pump. When filling or topping off water, do not exceed the maximum fill level indication on the water level label. On the Momentum swim spa model with a clear acrylic divider, it is recommended that the swim side be filled first and then the spa side. When draining the swim spa always drain the spa side before draining the swim side.

NOTE: In below freezing temperatures, caution should be taken when planning to install a swim spa and fill it with water. As it takes time for the water to fill the swim spa and reach the proper minimum water level, the water entering the various plumbing lines and equipment may begin to freeze up when done in winter weather conditions. This could result in pumps being seized until thawed or other potentially worse freeze damage occurring to the equipment and plumbing lines.

5. Turn on power to the swim spa. If your swim spa is equipped with two electrical supplies, make sure that they are both turned on. The swim spa will go through its priming mode. This lasts approximately 5 minutes. The purpose of the priming mode is to help insure that the jet pumps have been primed with water and are ready to operate. It may be necessary in some instances to bleed air from the jet pumps in your swim spa. If after the priming mode the swim spa pumps run but do not move water, the pump may have an air lock.

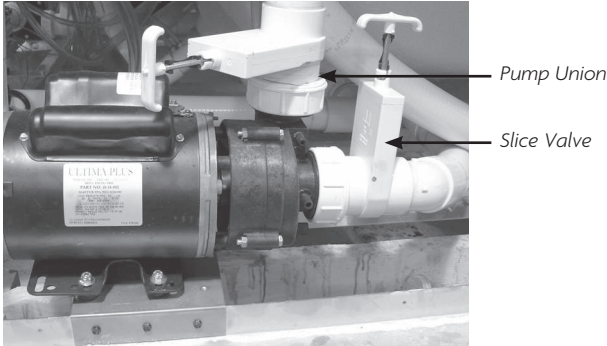
Due to the nature of water flow and hydro-therapy pumps, please be advised that air locking of pumps may occur. Master Spas has taken measures to reduce the possibility of this, but it still may occur, especially after filling the swim spa. This is not a service covered by the warranty and service charges may apply. See next page for instructions on how to relieve an airlock.

6. Be sure the adjustable jets in your swim spa are open by turning the face of the jet. Most of the jets in your swim spa are adjustable and removable by turning the face of the jet.

INITIAL SWIM SPA SETUP

7. It may be necessary to bleed air from the pump(s) in your swim spa if, after start up, your swim spa pumps are turning on and off but you do not have water flow from the jets in your swim spa.

Due to the nature of water flow and hydro-therapy pumps, please be advised that air locking of pumps may occur. Master Spas has taken measures to reduce the possibility of this, but it still may occur, especially after refilling a swim spa. This is not a service covered under warranty and service charges may apply.



To relieve an airlock situation, loosen the pump union on the discharge of the pump. This pump union is indicated by an arrow in the picture. Water should leak out of the union once the air has been removed. Tighten the union and test the pump for proper operation. Repeat this process if needed.

Airlock

8. Adjust water chemistry according to the instructions provided in the Water Maintenance section.
9. Your swim spa water will heat approximately 1 degree Fahrenheit per hour (approximately 0.5 degrees Celsius) with the cover placed snug and secured on the swim spa. This timing will vary depending on the size of the swim spa and ambient conditions.
10. Step into the soothing waters of your Master Spa swim spa!
Relax and enjoy.



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SWIM SPA CONTROLS - TP500S CONTROL PANEL

EN 17125

MAIN MENUS



DISPLAY ICONS



- | | | |
|-----------------------------|-------------------|-----------------------------------|
| A - Heat | F - Light | K - Auxiliary (Jets 3) |
| B - Ready Mode | G - Cleanup Cycle | L - Temperature Range (High/Low) |
| C - Rest Mode | H - Jets 1 | M - Set (Programming) |
| D - bba™2 On | I - Jets 2 | N - Filter Cycle (1 or 1 or Both) |
| E - WiFi (Cloud Connection) | J - Blower | O - AM or PM (Time) |

*Some icons may not apply. Equipment and accessories will vary by manufacturer and model.

*D - if equipped, options vary by model

*E - If equipped, aftermarket accessory

*G - Does not apply to all systems

*I - If equipped, option vary by model

*K - if equipped, options vary by model

*J - Not applicable

NAVIGATION

Navigating the entire menu structure is done with 2 or 3 buttons on the control panel. The up, **WARM**, and down, **COOL**, buttons are used to navigate the menu options.

SWIM SPA CONTROLS - TP500S CONTROL PANEL

The **MENU** Button is used to choose the various menus and navigate each section.

Typical use of the Temperature button(s) allows changing the Set Temperature while the numbers are flashing the LCD. The menus can be exited with certain button presses. Simply waiting for a few seconds will return the panel operation to normal.

POWER-UP SCREENS

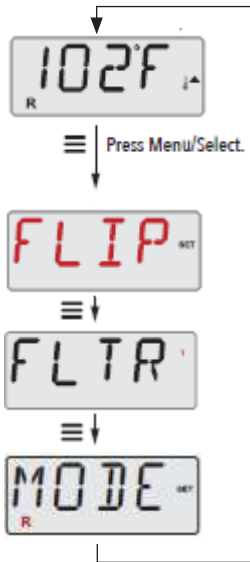
Each time the System powers up, a series of numbers displayed. After the startup sequence of numbers, the system will enter Priming Mode.

Key

- Indicates Flashing or Changing Segment
- Indicates Alternating or Progressive Message - every 1/2 second
- A temperature button, used for "Action"

Waiting time that keeps the last change to a menu item.

**** Waiting time (depends on menu item) that reverts to original setting and ignores any change to that menu item.



SWIM SPA CONTROLS - TP500S CONTROL PANEL

INITIAL START-UP

PREPARATION AND FILING

Fill the swim spa to its correct operating level. Be sure to open all valves and jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing and the control system during the filling process. It is always best practice to fill the swim spa at the filter area. After turning the power on at the main power panel, the top-side control panel display will go through specific sequences. These sequences are normal and display a variety of information regarding the configuration of the hot tub control.

PRIMING MODE

This mode will last for 4-5 minutes or you can manually exit the Priming Mode after the pump(s) have primed, by pressing the **WARM** or button.



Regardless of whether the priming mode ends automatically, or you manually end the priming mode, the system will begin normal heating and filtering operations when Priming Mode ends. During the Priming Mode, the normal system's programming and heating is disabled to allow the priming process to be completed by the user without the possibility of turning on the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by pushing the JETS button. If the swim spa has a dedicated Circulation Pump, it can be activated by pressing the LIGHT button during Priming Mode.

PRIMING THE PUMPS

As soon as the Priming Mode screen appears on the panel, select the "Jets 1" button once to start Pump 1 in low-speed (if applicable) and then again to switch to high-speed. If the pump is operating but there is no water flow after 10 seconds of running, shut the pump off for 5-10 seconds and then back on for 5-10 seconds. Repeat until water begins flowing, this means the pump is primed. Also select the other pumps to turn them on and perform this priming process if necessary. If the pumps have not primed after 4-5 minutes, and water is not flowing from the jets in the swim spa, do not allow the pumps to continue to run. Turn the swim spa off, then back on and repeat the process.

NOTE: Turning the power off and back on again will initiate a new pump priming session. Do not do this more than 5 times. If the pump(s) will not prime, shut off the power to the swim spa and see instructions for relieving an air lock in the Initial Swim Spa Setup section.

IMPORTANT: A pump should not be allowed to run continuously without priming for more than 2 minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4-5 minute priming mode. Doing so may cause damage to the pump and cause the system to energize the heater and go into an overheat condition.

EXITING PRIMING MODE

You can manually exit Priming Mode by pressing a Temperature button, **WARM** (Up) or **COOL** (Down). Note that if you do not manually exit the priming mode as described above, the Priming Mode will be automatically terminated after 4-5 minutes. Be sure that the pump(s) have been primed by this time. Once the system has exited Priming Mode, the top-side control panel will momentarily display the set temperature but the display will not show the temperature, yet, as shown below. This is because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it.



SWIM SPA CONTROLS - TP500S CONTROL PANEL

SWIM SPA BEHAVIOR

PUMPS

Press **JETS 1** or **JETS 2** button once to turn the pump on or off, and to shift between low and high speeds if equipped. If left running, the pump will turn off after a time-out period.

NON-CIRCULATION SYSTEMS

To monitor current water temperature, the system will automatically activate Pump 1 at the low-speed setting as needed. If the swim spa is in Ready Mode, Pump 1 low may activate for at least 1 minute every 30 minutes to monitor the swim spa water temperature (known as polling) and begin to heat if water temperature has dropped below the set temperature. If the water temperature remains consistent over long periods, and does not decrease, the M8 technology in your swim spa will actively adapt these polling intervals to be less frequent. If the water temperature conditions are very stable, M8 will gradually increase time between the intervals, up to 2 hours. If the water temperature starts dropping significantly, the system will check the water temperature (poll) more frequently, reverting the interval back to every 30 minutes. It will also reset the intervals back to 30 minutes whenever the user interacts with the system (such as activating equipment, changing heating modes and modifying the set temperature).

Pump 1 runs automatically, at the low-speed setting, when any other pump is turned on (if equipped) so that the system can monitor the swim spa water temperature.

When the low-speed of Pump 1 turns on automatically for either temperature polling, heating or filter cycles, it cannot be turned off at the control panel. However, the high speed setting on the pump can be turned on.

CIRCULATION PUMP

If the system is equipped with a circulation pump, it will be configured to work in one of two different ways depending on the control system software. The circulation pump mode cannot be changed.

1. Most circulation pumps operate continuously (24 hours) with the exception of turning off for 30 minutes at a time when the water temperature reaches 3°F (1.5°C) above the set temperature (most likely to happen in warm climates or if set temperature is lowered/set below the current water temperature). This is the typical mode for most spas with a dedicated circulation pump.

2. A programmable circulation pump will come on when the system is checking temperature (polling), during filter cycles, during freeze conditions, or when another pump is on.

FILTRATION AND OZONE

On non-circulation systems, Pump 1 low and the ozone generator will run during filtration. With dedicated circulation pump systems, the ozone will run in combination with the circulation pump.

The system is factory-programmed with a single filter cycle that will run 5-10 minutes after power-up. The filter duration is programmable.

At the start of the filter cycle, Pump 2 (if there is one) will run briefly to purge its plumbing to maintain good water quality.

SWIM SPA CONTROLS - TP500S CONTROL PANEL

FREEZE PROTECTION

If the temperature sensors within the heater detect a low enough temperature, then the pump(s) automatically activate to provide freeze protection. The pump(s) will run either continuously or periodically depending on conditions. If the temperature sensors detect a drop to below 44°F (6.7°C) within the heater, the pump will automatically activate to provide freeze protection. The equipment stays on until 4 minutes after the sensors detect that the swim spa temperature has risen to 45°F (7.2°C) or higher. During freeze protection the heater will not be activated.

ADJUSTING THE SET TEMPERATURE

When using a panel with Up and Down buttons (Temperature buttons), pressing UP or DOWN will cause the temperature to flash. Pressing a temperature button again will adjust the set temperature in the direction indicated on the button. When the LCD stops flashing, the swim spa will heat to the new set temperature when required.

The water temperature can be set between 80°F (27°C) and 99°F (37°C). Consider that the comfortable temperature range during use may be lower than the maximum safe temperature. Check the set water temperature and consider lowering it for the times when the swim spa will typically not be in use.

PRESS-AND-HOLD

If a temperature button is pressed, **WARM** (Up), **COOL** (Down) or single **TEMP**; and held when the temperature is flashing, the temperature will continue to change until the button is released. On one Temperature button swim spa models, if the limit of the Temperature Range is reached when the button is being held, the progression will reverse direction.

SWIM SPA CONTROLS - TP500S CONTROL PANEL

MODE - READY & REST

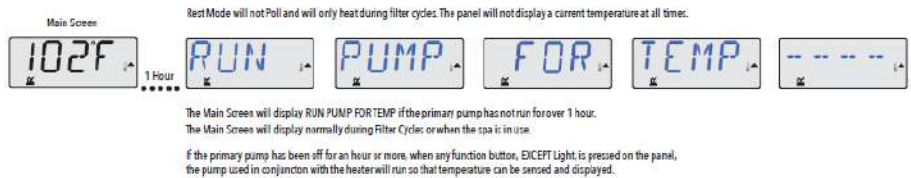
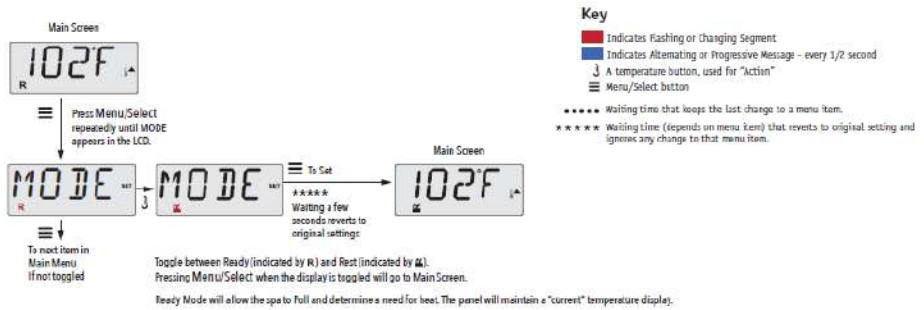
In order for the spa to heat, a pump needs to circulate water through the heater. The pump that performs this function is known as the “heater pump.”

The heater pump can be either a 2-Speed Pump 1 or a circulation pump.

If the heater pump is a 2-Speed Pump 1, **Ready Mode** (indicated by **R**) will circulate water periodically, using Pump 1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as “polling.”

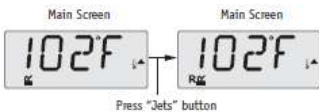
REST MODE

Rest Mode (indicated by **R**) will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the primary pump has been running for a minute or two. Using rest mode is not recommended in below freezing temperatures



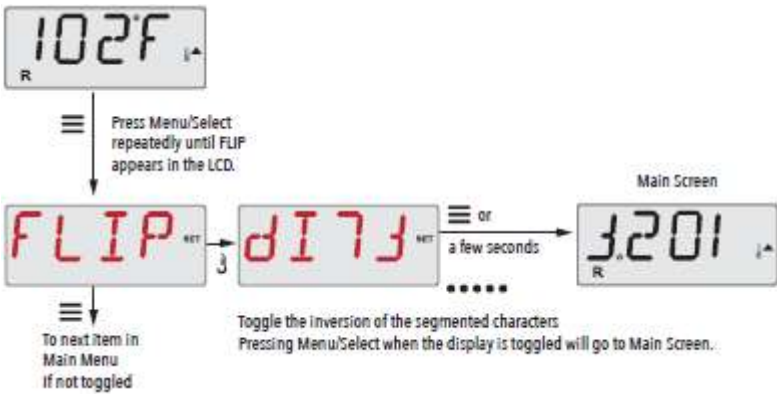
READY-IN-REST MODE

READY/REST **R** appears in the display if the spa is in Rest Mode and “Jets” is pressed. It is assumed that the spa is being used and will heat to the set temperature. The primary pump will run until set temperature is reached, or 1 hour has passed. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by entering the Mode Menu and changing the Mode.



SWIM SPA CONTROLS - TP500S CONTROL PANEL

FLIP (INVERT DISPLAY)



ADJUSTING FILTRATION

MAIN FILTRATION

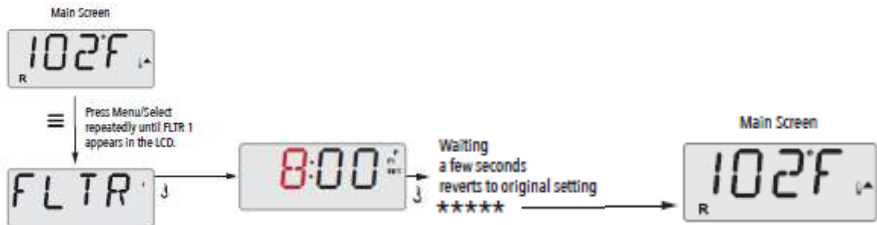
Filter cycle is set using a duration. The time frame can be adjusted in 1 hour increments. The default time is 4:30. The filter cycle will start a few minutes after the spa is powered up.

Key

- Indicates Flashing or Changing Segment
- Indicates Alternating or Progressive Message - every 1/2 second
- ▲ A temperature button, used for "Action"

Waiting time that keeps the last change to a menu item.

***** Waiting time (depends on menu item) that reverts to original setting and ignores any change to that menu item.



PURGE CYCLES

In order to maintain sanitary conditions, secondary Pumps will purge water from their respective plumbing by running briefly at the beginning of the filter cycle.

SWIM SPA CONTROLS - TP500S CONTROL PANEL

GENERAL MESSAGES



PRIMING MODE

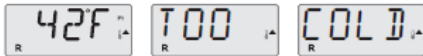
Each time the swim spa is powered up, it will enter Priming Mode. The purpose of Priming Mode is to allow the user to run each pump and manually verify that the pumps are primed (air is purged) and water is flowing. This typically requires observing the output of each pump separately and is generally not possible in normal operation. The Priming Mode lasts 4 minutes, but you can exit it earlier by pressing any Temp button. The heater is not allowed to run during Priming Mode.

NOTE: If your swim spa has a dedicated Circulation Pump, it will turn on with Jets 1 in Priming Mode. The dedicated Circulation Pump will run by itself when Priming Mode is exited.



WATER TEMPERATURE IS UNKNOWN

After the pump has been running for 1 minute, the temperature will be displayed.



TOO COLD - FREEZE PROTECTION

A potential freeze condition has been detected, or the Aux Freeze Switch has closed, and all pumps and blower are activated, either one at a time, or all at once, depending on how your system was built. All pumps and blower are ON for at least 4 minutes after the potential freeze condition has ended, or when the aux freeze switch opens.

In some cases, pumps may turn on and off and the heater may operate during Freeze Protection.

This is an operational message, not an error indication.



WATER IS TOO HOT

One of the water temp sensors has detected spa water temp 110°F (43.3°C) and spa functions are disabled. System will auto reset when the spa water temp is below 108°F (42.2°C). Check for extended pump operation or high ambient temp.

J29 WARNING

J29 is typically used as a Heater Disable input. As such, it should not typically be shorted at power-up. This message appears if J29 is shorted at power-up.

SWIM SPA CONTROLS: TP500S CONTROL PANEL

HEATER RELATED MESSAGES



HEATER FLOW IS REDUCED (HFL)

There may not be enough water flow through the heater to carry the heat away from the heating element. Heater start-up will begin again after about 1 min. See “Flow Related Checks” below.



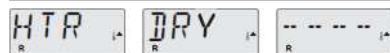
HEATER FLOW IS REDUCED (LF) *

There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. See “Flow Related Checks” below. After the problem has been resolved, you must press any button to reset and begin heater start up.



HEATER MAY BE DRY (DR)*

Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 min. Press any button to reset the heater start-up. See “Flow Related Checks” below.



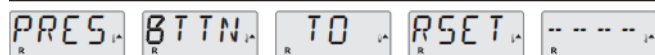
HEATER IS DRY*

There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must press any button to reset and restart heater start up. See “Flow Related Checks” below.



HEATER IS TOO HOT (OHH)*

One of the water temp sensors has detected 118°F (47.8°C) in the heater and the spa is shut down. You must press any button to reset when water is below 108°F (42.2°C). See “Flow Related Checks” below.



A RESET MESSAGE MAY APPEAR WITH OTHER MESSAGES

Some errors may require power to be removed and restored.

FLOW-RELATED CHECKS

Check filters for possible blockage. Try cleaning or replacing filters (especially if the swim spa is equipped with 24-hour circulation pump). Check for low water level, suction flow restrictions (i.e. any leaves or debris pulled against suction fittings in bottom of swim spa shell), closed valves, too many closed jets and pump prime/air locked pump (see Initial Swim Spa Setup section for instructions on relieving pump air lock). On some systems, even when the swim spa is shut down by an error condition, some equipment may occasionally turn on to continue monitoring the temperature or if freeze protection is needed.

* This message can be reset from the topside control panel by pressing any button.

SWIM SPA CONTROLS - TP500S CONTROL PANEL

SENSOR RELATED MESSAGES



SENSOR BALANCE IS POOR

The temperature sensors MAY be out of sync by 2°F or 3°F. Contact your Master Spas dealer or service organization.



SENSOR BALANCE IS POOR*

The temperature sensors failed to balance and have remained out of sync for more than 1 hour. Contact your Master Spas dealer or service organization.



SENSOR FAILURE - SENSOR A, SENSOR B

A temperature sensor or sensor circuit has failed. Contact your Master Spas dealer or service organization.

MISCELLANEOUS MESSAGES



NO COMMUNICATIONS

The control panel is not receiving communication from the System. Contact your Master Spas dealer or service organization.



°F OR °C IS REPLACED BY °T

The Control System is in Test Mode. Contact your Master Spas dealer or service organization.

* This message can be reset from the topside control panel by pressing any button.

SWIM SPA CONTROLS - TP500S CONTROL PANEL

SYSTEM RELATED MESSAGES



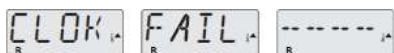
MEMORY FAILURE - CHECKSUM ERROR*

At power up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program). Contact your Master Spas dealer or service organization.



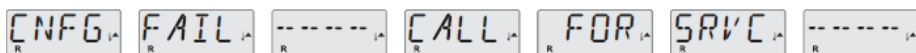
MEMORY WARNING - PERSISTENT MEMORY RESET*

Appears after any system setup change. Contact your Master Spas dealer or service organization if this message appears on more than one power up, or if it appears after the system has been running normally for a period of time.



MEMORY FAILURE - CLOCK ERROR*

Contact your Master Spas dealer or service organization.



CONFIGURATION ERROR – SWIM SPA WILL NOT START UP

Contact your Master Spas dealer or service organization.



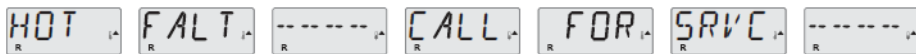
GFCI FAILURE - SYSTEM COULD NOT TEST/TRIP THE GFCI

NORTH AMERICA ONLY. May indicate an unsafe installation. Contact your dealer, service organization, or electrician.



A PUMP APPEARS TO BE STUCK ON

Water may be overheated. POWER DOWN THE SWIM SPA. DO NOT ENTER THE WATER. Contact your Master Spas dealer or service organization.



A PUMP APPEARS TO HAVE BEEN STUCK ON WHEN SWIM SPA WAS LAST POWERED

POWER DOWN THE SWIM SPA. DO NOT ENTER THE WATER. Contact your Master Spas dealer or service organization.



THE WATER LEVEL IS TOO LOW

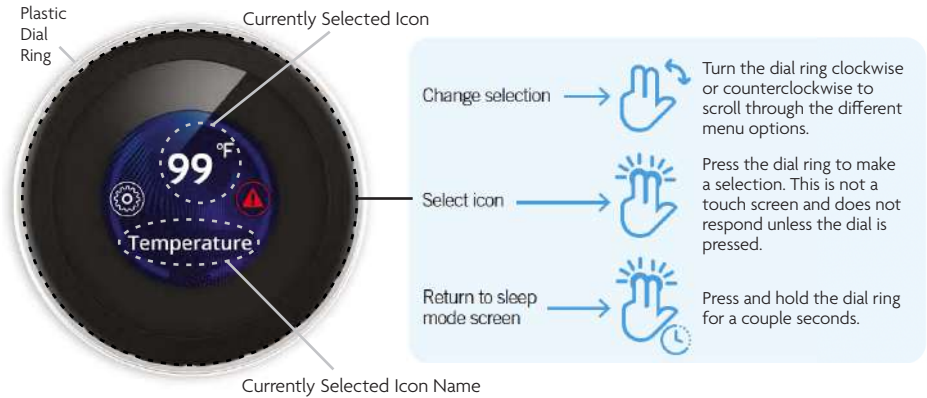
Some systems have a water level detect, and this message appears if it detects that the water level is too low.

GECKO FLX.GO DIAL CONTROLS

KEYPAD LAYOUT



NAVIGATION



The dial controller gives access to various information and menus. This includes equipment operation and water temperature as well as options such as settings menus, water care adjustment, messages and alerts. Turning the dial ring clockwise or counterclockwise will scroll through the various menu options.

GECKO FLX.GO DIAL CONTROLS

KEYPAD FUNCTIONS



POWER AND SLEEP

Rotate the dial ring to turn on the keypad. After 2 minutes of inactivity, the keypad will revert to sleep mode screen. After 4 minutes of inactivity, the screen will shut off.



SLEEP MODE SCREEN

The sleep mode will activate after 2 minutes of inactivity. It can however also be accessed by pressing the dial ring for 2 seconds when in any other menu.

The sleep mode screen shows the current water temperature, error indicator , economy indicator  and time of day.

When the water temperature set point is higher than the current water temperature, an orange arc will appear on the sleep mode screen. The orange arc indicates the water is being heated to the temperature set point. The length of the arc represents the temperature difference between the current water temperature and the set point. The total length of the arc will be fully orange when the temperature reaches the set point. There is normally a short delay before the heating starts.



When the water temperature set point is lower than the current water temperature, a blue arc will appear. The blue arc indicates that the water is cooling to the temperature set point. The length of the arc represents the temperature difference between the current water temperature and the set point. It will decrease in size until the temperature reaches the set point.

NOTE: Most systems do not have a way to cool the water and rely on heat dissipation to cool.



If a red triangle with an exclamation point is displayed in the sleep mode screen, an error is active. Consult the error menu on the main screen for further instructions. There is no icon on the main screen when no error is detected.

Error Indicator/Notification

GECKO FLX.GO DIAL CONTROLS

SETTINGS



If an over-temp error is active, a red fire triangle with an exclamation point will be displayed on the main screen. This error appears when the water temperature is 108°F (42°C) or higher. Do not enter the swim spa.

This could be a symptom of heat creep in your swim spa. Check your filter cycle/watercare settings or your warm weather mode settings. If the filter cycles/watercare settings are set to run for long periods of time, it can cause the heat to accrue in the system without the heater ever coming on. Reduce the filter cycles settings or toggle the warm weather mode option to help resolve heat creep.

SETTINGS MENUS AND FUNCTIONS

START AND STOP ACCESSORIES

The main swim spa equipment can be accessed and activated straight from the main menu wheel.

To start or stop an accessory, turn the dial ring to the associated icon/menu and press the dial ring to select the menu option. Icons will become animated and turn blue when their accessory is turned on. Animation will stop when turned off.

Icons on the screen will reflect the speed or state of the devices running on your swim spa. When an accessory has more than one speed, press the dial ring one more time to reach the second speed.



LIGHTS ON/OFF

NOTE: On the dual body systems, there is only one light controller. The lights will only operate from the hot tub end control panel.

The lights (if equipped) operate as an on/off feature. Turn the dial ring to the light symbol on the main menu wheel and press the dial ring to turn on. The light symbol will light up yellow when on. Turn the lights off and on repeatedly within a couple of seconds to rotate through available color schemes.



GECKO FLX.GO DIAL CONTROLS

SETTINGS

WATER TEMPERATURE

When the main screen menu wheel is turned to the Temperature menu, the central circle will show the current water temperature. To enter the Temperature menu, press the dial ring. Then turn the dial clockwise or counterclockwise to set the desired temperature. The temperature range can be set between 59°F (15°C) and 99°F (37°C). Press the dial ring again to confirm. The screen will return to the main menu wheel.



FLIP SCREEN

To invert the display orientation, scroll through the main options wheel and select the flip icon by pressing the dial ring.



SETTINGS

MENU

In the Settings menu you can access the following:

- Watercare**
- Filter Cycle**
- Economy**
- Maintenance
- in.temp (External Heat Pump)*
- in.touch (WI-FI)*
- Date & Time
- Keypad
- Electrical Configuration
- Warmweather
- About
- Factory Reset
- Back



*Some options may not apply. Equipment and accessories will vary by manufacturer and model.

**Some options depend on the in.touch option for editing. These options may not appear in the settings menu.

GECKO FLX.GO DIAL CONTROLS

SETTINGS

FILTER CYCLE

NOTE: If the in.touch Wi-Fi option is equipped, the Filter Cycle settings can only be adjusted through the watercare menu in the in.touch app.

The Filter Cycle is a preprogrammed time or set of times, when the system will run for water filtration. During a filter cycle, pumps run for one minute to purge the plumbing. Then the main filtration pump, either pump 1 on low speed or a smaller energy efficient circulation pump, runs for the programmed number of hours.

To program the filter cycle, you must enter these settings: Start time, Duration and Frequency. Once you have confirmed, you will be brought back to the Settings menu.

For example, if you set the start time at 8:00, duration at 1:00 and frequency at 4, the swim spa will filter the water for one hour at 8 AM, 2 PM, 8 PM and 2 AM for a total filtration time per day for 4 hours. The factory programmed filter cycle is set for a single 4 hour cycle set to run in the evening.



START:

Start time of first filtration



DURATION:

Duration of the filter cycle



FREQUENCY:

Number of times the filter cycle is executed during a day

ECONOMY

NOTE: If the in.touch Wi-Fi option is equipped, the economy mode settings can only be adjusted through the watercare menu in the in.touch app.

Economy mode restricts how the swim spa's heating functions operate during specified hours of the day. During the economy durations, the unit will not maintain the set temperature and will only heat if the temperature falls to 20°F (11°C) below the swim spa's set temperature. For example, if your set point is at 99°F (37-38°C) and you scheduled the swim spa to be in economy mode from 10 PM to 8 AM, the swim spa will let the water temperature drop to 80°F (26-27°C) and keep it at this temperature until it exits the economy mode at 8 AM. When the economy mode ends, the water will attempt to heat back to 99°F (37-38°C), if there is appropriate time available before the next economy duration. Note that the displayed set point remains the same 99°F (37-38°C) while in economy mode, but a green leaf is displayed on the sleep mode screen.

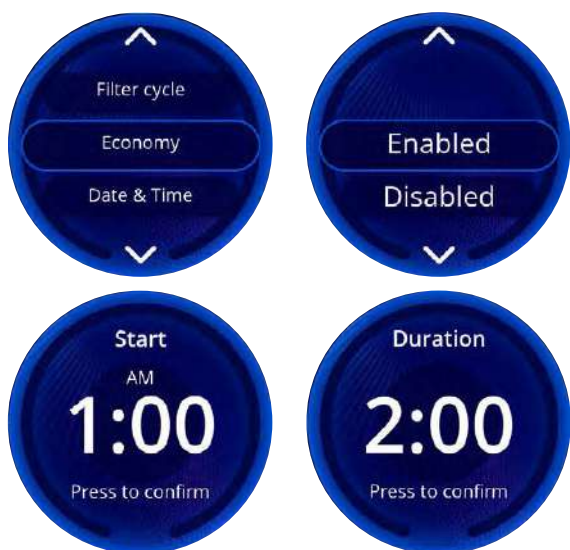
Turn the dial to the desired status: **Enabled** or **Disabled**. Press the dial ring to validate the choice.

To program the economy mode, you must enter the following settings: Start time and Duration.

Once confirmed, you will be brought back to the Settings menu.

GECKO FLX.GO DIAL CONTROLS

SETTINGS



WATERCARE

NOTE: If the in.touch Wi-Fi option is equipped, the Watercare menu will show in the settings menu instead of Filter Cycle and Economy.

The Watercare menu is only available if in conjunction with the in.touch app option. The Watercare menu will allow you to select one of the helpful, preprogrammed filtration and economy modes. Choose between Standard, Energy Savings, Super Energy Savings, Weekender, and Away From Home, depending on your need. Each filtration and economy setting can be edited further in the in.touch app to fit your schedule.

In Economy mode, the swim spa will only heat to within 20°F (11°C) of the set temperature. This means that the heating system will not be engaged unless the temperature falls to 20°F (11°C) below the swim spa's set temperature.

The filtration schedule will apply to the main filtration pump, either pump 1 or a smaller energy efficient circulation pump.



Standard: The swim spa will never be in economy mode and will be filtering according to the system control pack's low-level configuration.

Energy Savings: The swim spa will be in economy mode during the peak hours of the day and resume normal mode on the weekend.

GECKO FLX.GO DIAL CONTROLS

SETTINGS

Super Energy Savings: The swim spa will always be in economy mode during peak hours, every day of the week.

Weekender: The swim spa will be in economy mode from Monday to Friday, and will run normally on the weekend.

Away from Home: In this mode, the swim spa will always be in economy mode; the swim spa will only heat within 20°F (11°C) of the set temperature.

NOTE: These preprogrammed options can be edited in the in.touch app. The filter cycles and specific economy durations can be adjusted as needed within these options.

MAINTENANCE

From the Maintenance menu, you can access the following:

- Reminders
- Standby

Turn the wheel and press the dial ring select the desired setting.



REMINDERS

The dial controller will provide reminders about maintenance required on your swim spa, like rinsing or cleaning the filter. Every task has its own duration for recommended maintenance. The Reminders menu allows you to check the time left before maintenance is required, as well as to reset the time once a task has been completed. To reset a task, select the icon of the desired reminder. Once you have confirmed, the task will be reset. You can also use the Reset option to reset all the reminders.



GECKO FLX.GO DIAL CONTROLS

SETTINGS

STANDBY

The Standby mode allows you to service your swim spa. Pumps will stop for 30 minutes and will automatically restart after the time has ended. The main menu will return at the end once the pumps have restarted. If the heater is operating when standby mode is activated, it will take a minute or two to disengage the heater and heater pump.



IN.TOUCH WI-FI

When an in.touch is detected, a green logo will appear showing the device is connected to the swim spa.



GECKO FLX.GO DIAL CONTROLS

SETTINGS

DATE

To change the date in the dial controller, press on Date & Time in the settings menu. Press on Date. Use the dial ring to select the Year, Month and Day.



TIME

To change time in the dial controller, press on Date & Time in the Settings menu. Press on Time. Use the dial ring to select the Format (AM/PM or 24H). Select the Hours and Minutes.



GECKO FLX.GO DIAL CONTROLS

SETTINGS

KEYPAD

In the keypad menu you can access the following:

- Temperature Units
- Contrast
- Language
- Lock Swim Spa
- Keypad Color

To select an item, turn the wheel until the desired sub-menu is in the middle of the screen and press.



TEMPERATURE UNITS

Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). Use the dial ring to choose the appropriate units to display temperatures. Once you have confirmed, you will be brought back to the Settings menu.



LANGUAGE

Language can be displayed in either English, French, Spanish, Polish, Dutch, German, Norwegian, Swedish, Portuguese, Italian, Hungarian or Czech. Once you have confirmed, you will be brought back to the Settings menu.



GECKO FLX.GO DIAL CONTROLS

SETTINGS

CONTRAST

To select or change the screen contrast, turn and press the contrast setting you want to use. This will change how bright or dim the screen is. Day contrast is the brighter option while night contrast is dimmer.



LOCK SWIM SPA

When this option is enabled, you can partially or completely lock the keypad. When you want to lock the keypad, you are asked to select a 4-digit code. The same code will be needed to unlock the keypad.

The next time you want to lock the keypad, you will be prompted again to select a 4-digit code. The keypad can be unlocked with a universal unlock code (3732) or by resetting the keypad.

When Full lock is selected, all functions are locked. In Partial lock, you may only activate accessories like the pump and light features. Settings may not be changed in this mode.



KEYPAD COLOR

The keypad rim color can be changed. Eight colors are available.



GECKO FLX.GO DIAL CONTROLS

SETTINGS

ELECTRICAL CONFIGURATION

DO NOT MAKE CHANGES WITHOUT CONSULTING YOUR MASTER SPAS DEALER, AUTHORIZED SERVICE TECHNICIAN AND/OR LICENSED ELECTRICIAN

In this section, you can change the low-level configuration, modify the number of phases and change the input current value. Once the modification is done, hold the Apply button for five second. A code may be required to modify these settings. This code is 5555. Once confirmed, the system will immediately reset.



WARMWEATHER

When pumps are running, they produce heat that may increase your water temperature. Warmweather gives you the option to bypass the pack filtration over-temperature feature. When Warmweather is turned off, the filtration over-temperature is disabled and your swim spa filtering will continue even if the water temperature is above the set temperature.



ABOUT

This section provides information about the dial controller software number and the revision numbers of the various components for your system.



GECKO FLX.GO DIAL CONTROLS

SETTINGS

FACTORY RESET

When you select Factory Reset, you will be asked to confirm your choice. Doing so will reset all keypad settings to factory default.



BACK

To return to the Settings menu, scroll to the end of the list to select the "Back" icon.



GECKO FLX.GO DIAL CONTROLS

SETTINGS

IN.TEMP

Heat Pump Upgrade (if equipped/installed)

If you want to inquire about upgrading your system by installing an external heat pump, reach out to your dealer to discuss options. This may require a technician to come assess the installation site to confirm spacial requirements as well as provide a quote for the additional plumbing modification required. Heat pumps provide more energy efficient heating as well as the option to cool your swim spa.

From the Settings menu, you can access the in.temp menu, which gives you access to the following heat pump modes:

- Eco Heat
- Smart Heat
- Eco Auto (when applicable)
- Smart Auto (when applicable)
- Cool (when applicable)
- Electric

Turn to make a selection and press the dial ring to confirm.

Eco Heat In this mode, the heat pump is used as the unique source of heating. The swim spa pack heating element is kept off and the heat pump is not used to cool the water should its temperature rise above the current set point.

Smart Heat This mode uses the heat pump as the main heating source. The swim spa pack heating element is turned on only if there is a large temperature difference between the water and the set point. The heat pump is not used to cool the water in this mode.

Eco Auto This mode borrows functionality from both Eco Heat and Cool modes (when applicable) and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The swim spa pack heating element is never activated in this mode.

Smart Auto This mode borrows functionality from both Smart Heat and Cool modes (when applicable) and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The swim spa pack heating element is activated only if there is a large temperature difference between the water and the set point.

Cool This mode uses the heat pump in cooling mode only (when applicable). The heat pump is not used as a heating source and the swim spa pack heating element is never activated.

Electric This mode keeps the heat pump off and uses only the swim spa pack heating element to regulate water temperature.



SWIM SPA CONTROLS - USING YOUR SWIM JETS

EXERCISING OR SWIMMING IN YOUR SWIM SPA

The large jets grouped at the end of your swim spa create a water current to exercise against. The water flow for these exercise jets are controlled by the jet pump(s) as well as water diverter controls*. You can vary the power of the water flow by turning the pump(s) on or off from the Spa Control Panel in conjunction with adjusting the large water diverter(s)* along the top perimeter of the spa. By using the pump(s) and water diverter controls*, you can divert more or less water to flow through these jets to further vary the current. It is best to turn the jet pumps off before adjusting the water diverter controls*. For diverter location and pump control options, see Pump Control Diagrams in the Swim Spa Controls section.

*If equipped.

VMS GECKO DIAL CONTROLS

Unlike a traditional therapy pump, the VMS pumps feature an intensity control menu. Turn the wheel to increase or decrease the intensity. To switch off, set the intensity to 0 and the pump will shut down.

NOTE: The VMS pumps are only equipped on the H2X Challenger line.

TIP: Before starting a workout, press the auxiliary button to turn on the regular therapy pump to have it run at least on low speed while exercising. This will prevent the pump from turning on unexpectedly during the workout as the pump comes on periodically to check the swim spa's temperature to see if it needs to heat.

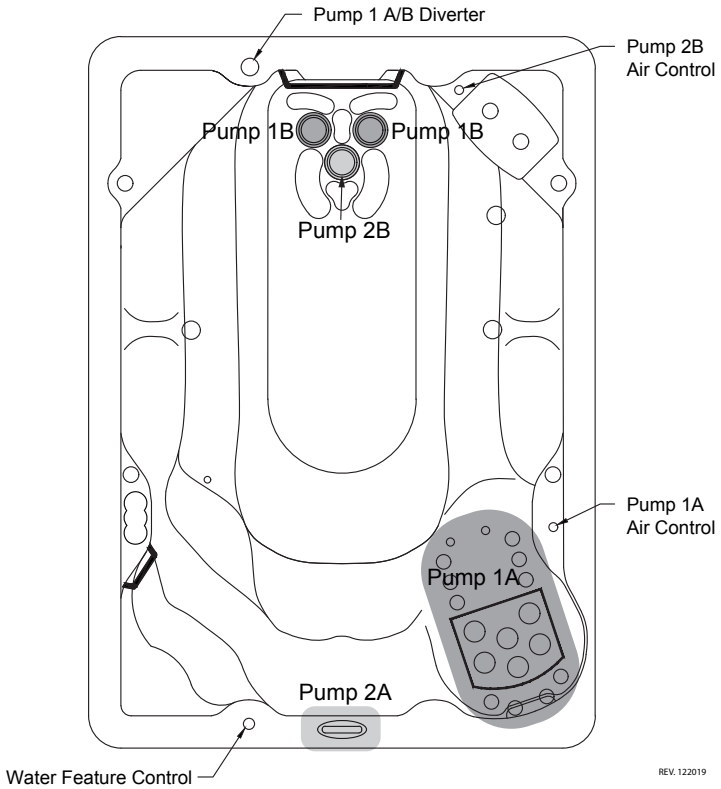
This menu allows you to choose from a selection of workout intensity options. To select a workout, scroll through the list and select the desired item. The duration is displayed in the center of the screen. The intensity is displayed by the blue arc and the percentage value listed at the top of the screen. The swimmer has the ability to pause the workout as needed by pressing the dial ring. Press and hold the dial ring to exit the workout.

If an automated function is in progress, like a filter cycle, the initiation of a shutdown request may be denied.



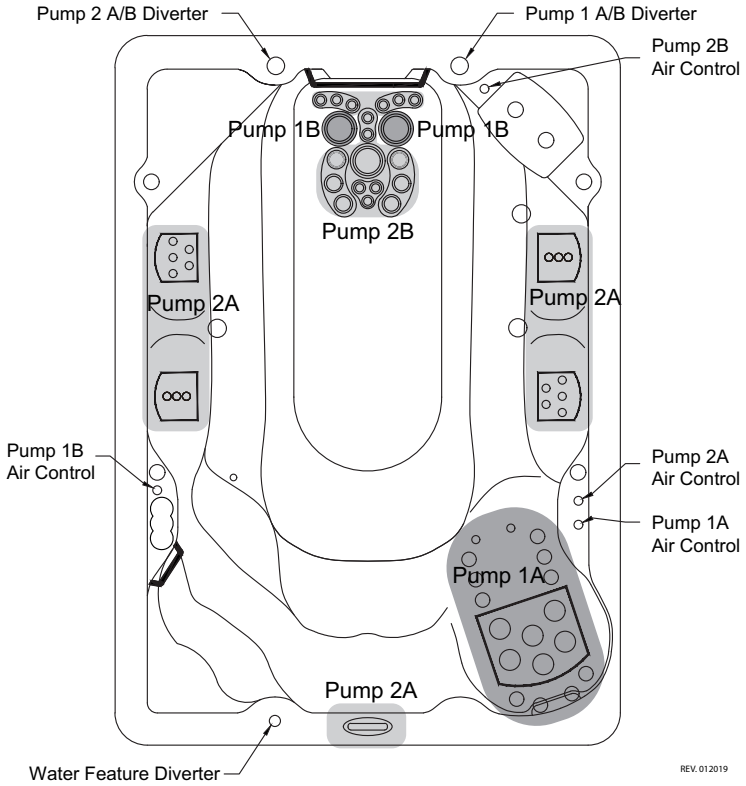
SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

THERAPOOL SE



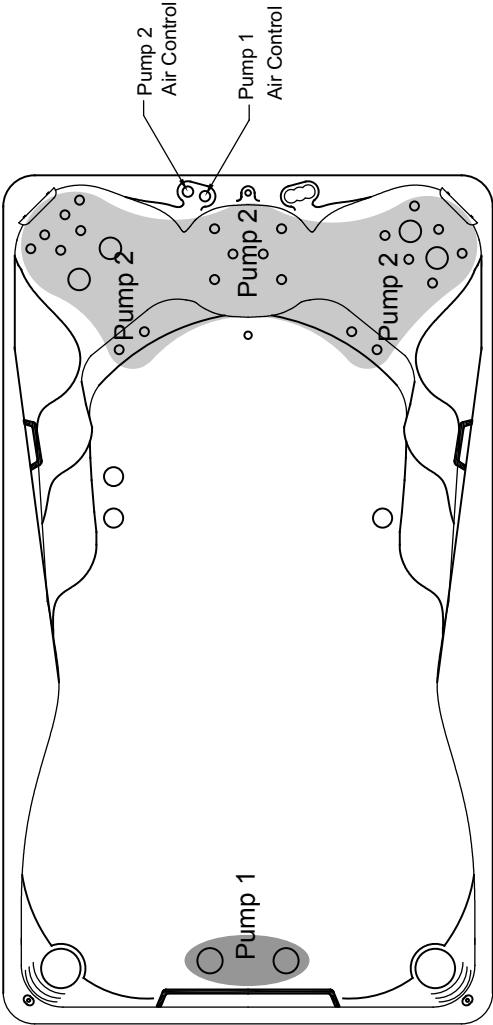
SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

THERAPOOL D



SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

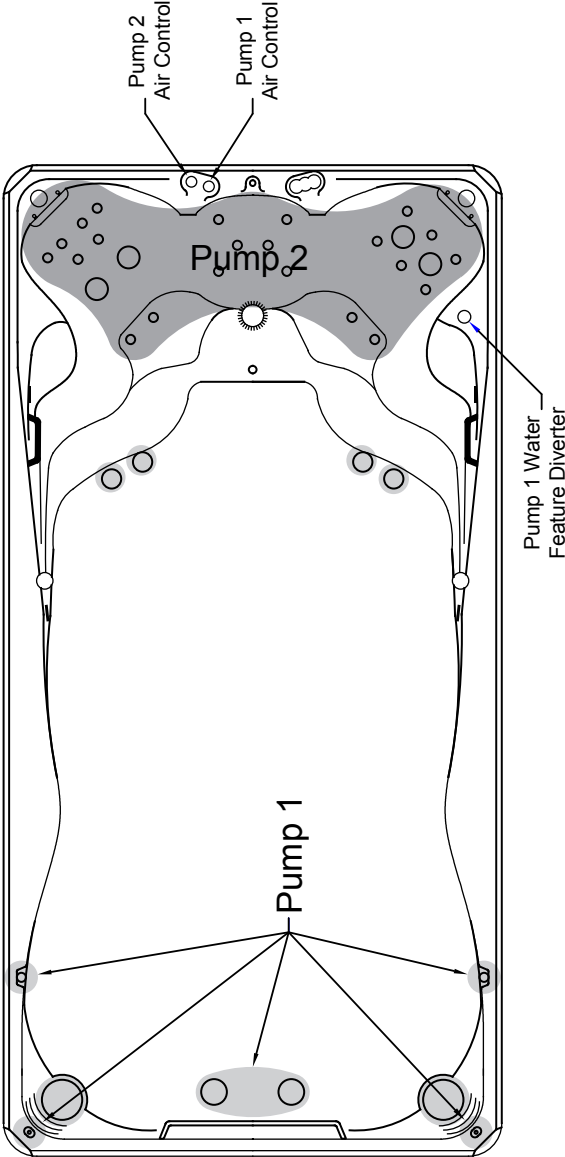
THERAPOOL 13



REV. 12/2019

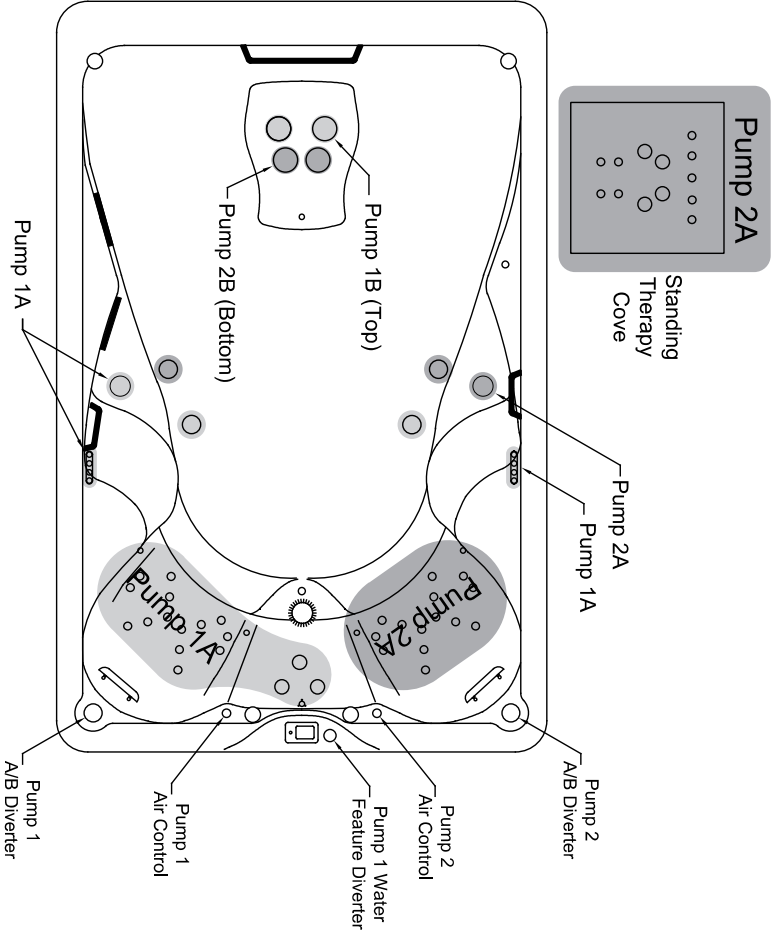
SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

THERAPOOL 15



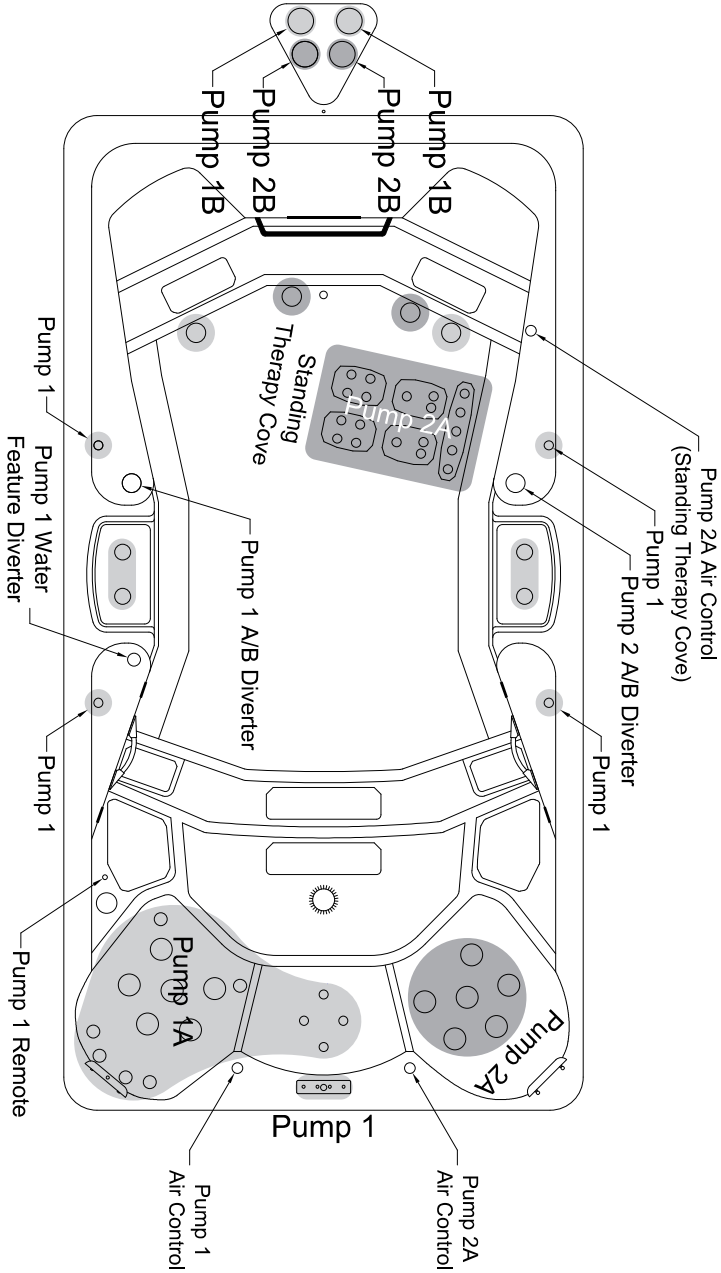
SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

TRAINER 12



SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

TRAINER 15 & 15D



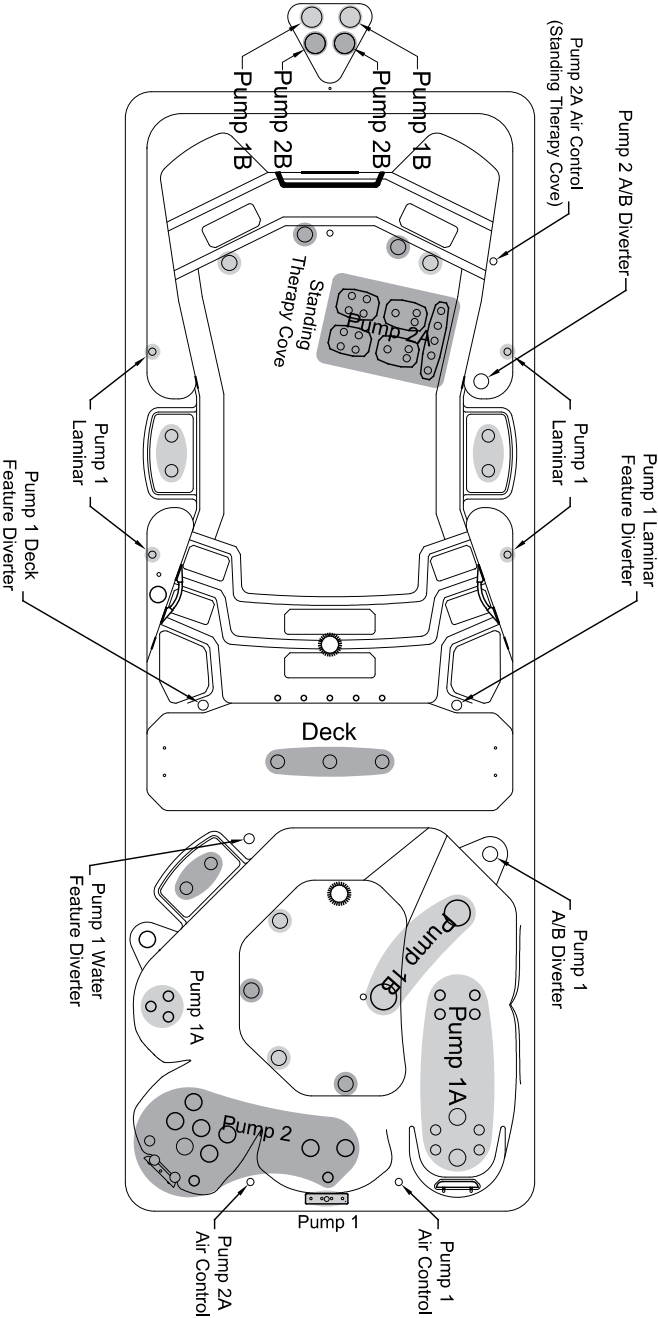
SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

TRAINER 19 MAX & 19D MAX

**COMING
APRIL-MAY
2025**

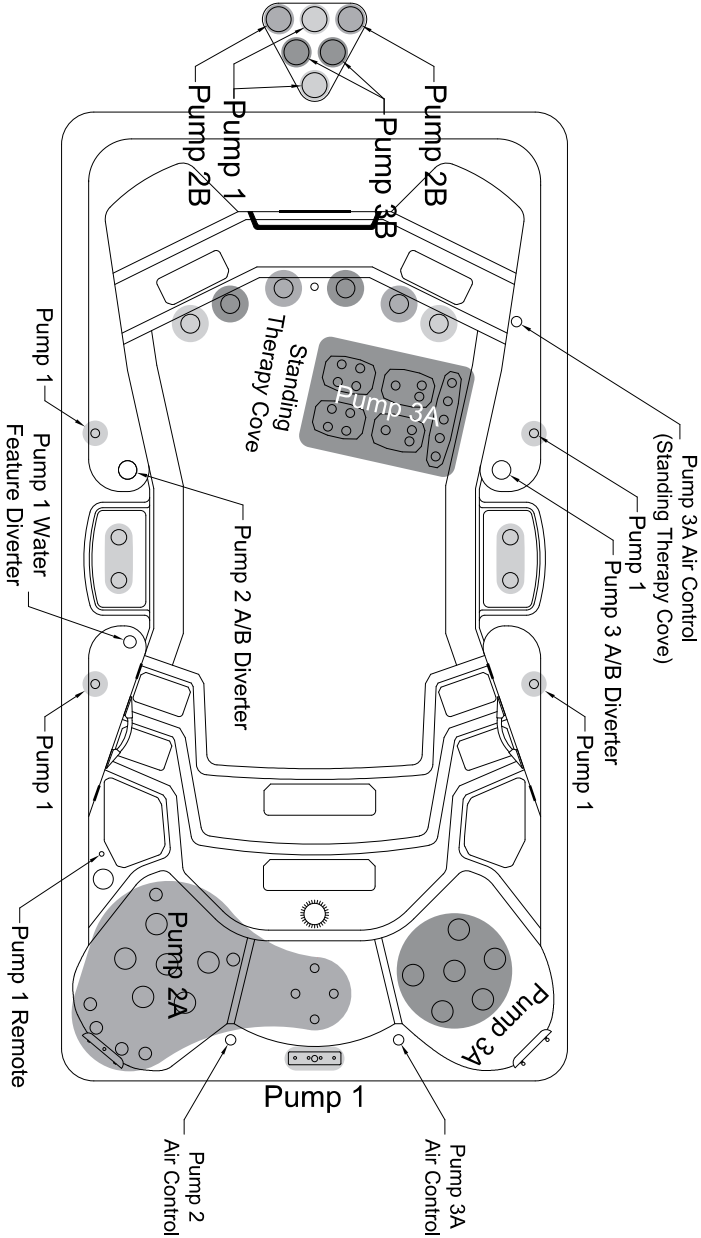
SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

TRAINER 21 & 21D



SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

CHALLENGER 15D



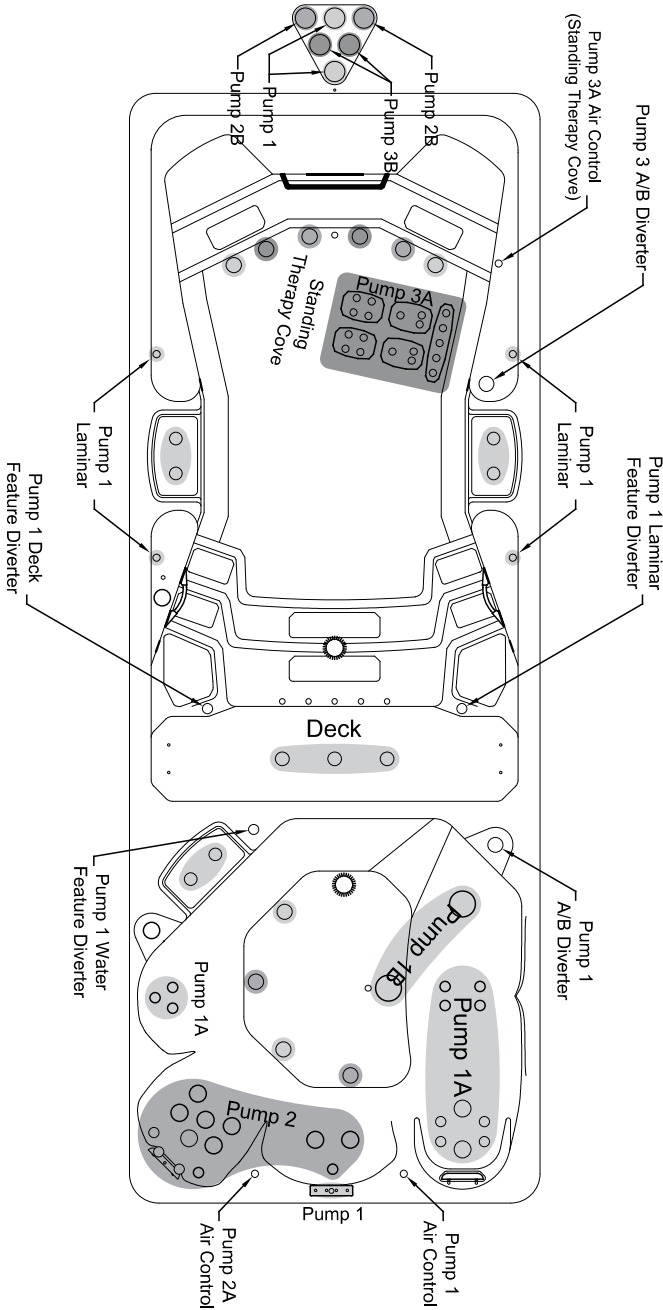
SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

CHALLENGER 19D MAX

**COMING
APRIL-MAY
2025**

SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

CHALLENGER 21D



FUSION AIR SOUND SYSTEM (IF EQUIPPED)

REMOTE CONTROL POWER & SYNCING

WARNING – Never remain in your swim spa longer than 15 minutes per session when the water temperature is above 98°F. If you wish to spend more time in your swim spa, whether enjoying music, or just lounging, be sure to keep the swim spa water at or below body temperature (98.6°F).

WARNING – Prevent Electrocutation. Do not connect any auxiliary/external components to the system (i.e. cables, additional speakers, headphones, additional Audio/Video components, etc.).


HANDHELD REMOTE CONTROL CHARGING

The remote has a built-in Polymer Lithium rechargeable battery and comes with a charging cable. Connect one end of the charging cable to the charging connection on remote control and connect the USB end of the charging cable to any USB charger (5V DC) for charging. Be sure charging connection is dry or allowed to dry before connecting to charge.




Make sure the remote has been charged before used. Do not leave remote under swim spa cover when not in use. Always store remote in dry location when not in use.

HANDHELD REMOTE CONTROL SYNCHRONIZING

The remote should already be paired from the factory, but if you need to synchronize the remote, follow the steps below:

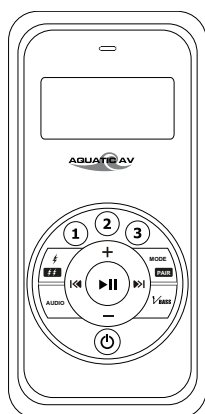
1. Make sure BlueCube+ Media Player is powered ON (red LED).
2. Put the remote within 20 inches (0.5 meter) of the BlueCube+ Media Player.
3. Press and hold  MODE on remote control until the LCD shows “Pairing in Progress”. Release the button.
4. Within 2 seconds, the LCD will show “Paired”. If it fails to pair, the LCD will show “Retry again”. If this happens, wait 5 seconds and repeat steps above.

For any additional remote controls, you will also need to synchronize those remote controls to the BlueCube+ Media Player.

-  If the pairing process is not successful, try again to put your remote close to the remote receiver or charge the remote control if the battery is low.
-  Depending on the frequency of usage, the remote may drain its battery. Please charge the remote before use. If the LCD shows nothing, the battery has been drained and will need charging.
-  If you have lost or damaged your remote control and buy a new remote control, follow the above steps to pair the new remote control.

FUSION AIR SOUND SYSTEM (IF EQUIPPED)

EXPLANATION OF CONTROLS



STEREO OUTPUTS

Internal stereo module has capabilities for Bluetooth, FM Radio, AUX and USB. There is no external capabilities for AUX and USB. For this reason, these inputs will not be applicable when seen on remote. Simply use Mode to rotate back to either Bluetooth input or FM.

REMOTE CONTROL

BUTTONS		BLUETOOTH	FM RADIO MODE
Power		Press once: Toggle from Operation mode to Standby mode or vice-versa. Press and hold: No function.	
Mode/Pair		Press once: Change mode. Press and hold: Synchronize remote control.	
Volume Up		Press once: Volume up Press and hold: Fast volume up	
Volume Down		Press once: Volume down Press and hold: Fast volume down	
Fast Forward		Press once: Next track Press and hold: Fast forward	Press once: +0.05kHz Press and hold: Scan up
Fast Rewind		Press once: Previous track Press and hold: Fast rewind	Press once: -0.05kHz Press and hold: Scan down
Play/Pause		Press once: Play/Pause Press and hold: No function	Press once: Toggle mute Press and hold: No function
1		Press once: No function Press and hold: No function	Press once: Listen to FM preset station 1 Press and hold: Set preset FM station 1
2		Press once: No function Press and hold: No function	Press once: Listen to FM preset station 2 Press and hold: Set preset FM station 2
3		Press once: No function Press and hold: No function	Press once: Listen to FM preset station 3 Press and hold: Set preset FM station 3
EXT Trigger		Press once: No function Press and hold: No function	Press once: No function Press and hold: No function
Audio		Press once: Enter Audio Menu Press and hold: Save & Exit Audio Menu	
VBass		Press once: Toggle VBass on/off Press and hold: No function	

FUSION AIR SOUND SYSTEM (IF EQUIPPED)

LISTENING TO DEVICES

PAIR WITH BLUETOOTH DEVICE

1. Switch on your Bluetooth device.
2. Select 'AQUATIC AV' from the list of available devices to pair (no password is needed).

LISTENING VIA BLUETOOTH DEVICE

1. Bluetooth mode will be activated once a Bluetooth device is paired in any mode. Use **MODE** **PAIR** (MODE) to change to the Bluetooth mode to listen to music.
2. Play the song from device and the sound will play through the BlueCube+ Media Player.
3. Press **▶||** (PLAY/PAUSE) to play/pause the song.
4. Press **⏮** / **⏭** (FAST REWIND/FAST FORWARD) buttons to play previous/next song file.
5. Press and hold **⏮** / **⏭** (FAST REWIND/FAST FORWARD) buttons to fast forward / fast rewind the song file.
6. Previous/next track and volume up/down can be controlled directly from your Bluetooth device or directly from the BlueCube+ Media Player remote control.

BLUETOOTH MULTI-LINK

A second Bluetooth device can pair to the BlueCube+ Media Player even when it has been paired to another Bluetooth device. The second Bluetooth device will be able to play once the first device has stopped playing.



ADJUST VOLUME LEVEL


1. Press **+** (VOLUME UP) once to increase the volume.
2. Press **-** (VOLUME DOWN) once to reduce the volume.
3. Press and hold either **+** or **-** (VOLUME UP or VOLUME DOWN) to increase or decrease audio volume continuously.


FUSION AIR SOUND SYSTEM (IF EQUIPPED)

LISTENING TO DEVICES





ENTER FM RADIO MODE

1. Press  (MODE) on the remote control to switch to FM radio mode.
2. Press  (PLAY/PAUSE) to mute or unmute the audio.


 If this is the first time you listen to FM radio, the default frequency will be 87.5MHz, as shown on the remote LCD.

 FM radio is only available when you are in FM Radio mode. Scan or seek FM radio Channels.


SCAN OR SEEK FM RADIO CHANNELS

1. Press  /  (FAST REWIND/FAST FORWARD) to seek another station.
2. Press once  /  (FAST REWIND/FAST FORWARD) to -0.05kHz or +0.05kHz to the frequency.





SAVING RADIO CHANNEL TO MEMORY

To save the current frequency to memory, press and hold the ,  or  for more than 2 seconds. The station will be stored into relevant button.

LISTENING TO SAVED RADIO MEMORY

Press the ,  or  preset button once to listen to the station stored in that button.

ADJUST VOLUME LEVEL

1. Press  (VOLUME UP) once to increase the volume.
2. Press  (VOLUME DOWN) once to reduce the volume.
3. Press and hold either  or  (VOLUME UP or VOLUME DOWN) to increase or decrease audio volume continuously.

FUSION AIR SOUND SYSTEM (IF EQUIPPED)

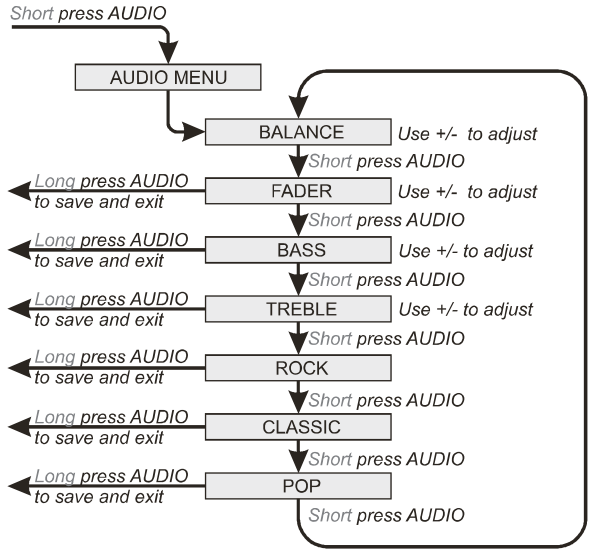
ADDITIONAL FEATURES

AUDIO MENU

The BlueCube+ Media Player is equipped with an audio DSP (Digital Signal Processor) to provide preset listening experiences for different music types.

1. To enter audio menu, press **AUDIO** (AUDIO) button once on the remote control.
2. Each press of **AUDIO** (AUDIO) button will advance to the next audio setting as described on the right.
3. In the audio menu, press and hold **AUDIO** (AUDIO) to save and exit the audio menu back to the original mode.

If you have chosen preset equalizer (Rock, Classic, or Pop), the previous Bass & Treble settings will be overridden.



VIRTUAL BASS (VBASS)

Virtual Bass (VBass) boosts the bass of the audio signal using the latest DSP technology and is particularly useful when used with very small speakers to create perceived bass frequencies of a much larger speaker.

Press **VBASS** (VBASS) once on the remote control to toggle it on or off.

BWG WI-FI MODULE (IF EQUIPPED)

BWG WIFI FOR SYSTEMS WITH MP30/TP500

Remotely control the operations of your swim spa via an optional integrated Wi-Fi module that works with the Balboa Water Group Wi-Fi Spa Control App. This app is available for Apple® or Android® devices. Please refer to the Balboa Water Group website and mobile device app for operation information:

<http://www.balboawater.com/bwa>

Scan the QR code to connect your wifi



For technical support, including setup and troubleshooting, visit: <https://bwa-help.com>

NOTE: WiFi Module is not available for all swim spa models. If this option was not added from the factory, see your Master Spas dealer for further details and compatibility.

in.touch 2 Gecko Wi-Fi (if equipped)

GECKO WIFI

WI-FI SET UP

The in.touch 2, used you to connect your swim spa to the Internet, transforms your iOS or Android smartphone or tablet into your ultimate mobile remote control. The in.touch 2 comes with 2 pre-paired radio frequency transmitters, one being part of your spa system and the second one being connected to your Internet router. Please refer to the installation documents listed below.

The Wi-Fi included is a two piece module. One piece comes already installed on your swim spa. The second piece is packaged in the equipment area. Connect this piece to your home Wi-Fi router and plug it into the wall to allow connection between your swim spa and your home Wi-Fi router.



Luggage Pack Location



in.touch 2 Home Router Receive

VIDEOS:

Additional Set Up Videos

<https://youtu.be/ZbRmCwI2lc0>

<https://youtu.be/H8yLgOQU5ns?si=dyMzIbMmB-PXDq8mX>

TEXT:

Gecko Docs

<https://www.geckodocs.com/accessories>

in.touch2 Home Transmitter Quick Start Guide

http://issuu.com/geckomkt/docs/touch_qsc_en?e=14165552/41983396

in.touch2 techbook

http://issuu.com/geckomkt/docs/touch2_techbook_en?e=14165552/41946535

Use the in.touch2 Gecko app on your mobile device to continue set up with Gecko and control your swim spa.

NOTE: WiFi Module is not available for all spa models. If this option was not added from the factory, see your Master Spas dealer for further details and compatibility. If your spa was equipped from the factory with WiFi option, the spa control module will be connected to the control system and mounted inside the equipment area to the spa frame. The Gecko WiFi box with home module components will be included in the spa luggage bag with your spa owner's manual.

CIRCULATION PUMP - HEAT PUMP READY

FACTORY PREPPED PLUMBING & HEAT PUMP INSTALLATION

H2X TRAINER & H2X CHALLENGER MODELS ONLY, WHEN CIRCULATION PUMP PRESENT

If your swim spa is equipped with an energy efficient circulation pump, it will have a section of “Heat Pump Ready” plumbing present. This plumbing section is present to help simplify the installation process and reduce modifications to the original factory plumbing. This section of plumbing provides a prepped set of tees and a valve for use as output and input connection points for heat pump installation (external heating and/or cooling system). This plumbing configuration will be placed on the pressure / output side of the circulation pump, always downstream of the main spa control pack (the water must always flow through the spa control system before going through an external heating/cooling system), before the water flows back to the body of water. The following page provides a general diagram example of the plumbing. This heat pump ready section of plumbing will be located on either the left or right side of the swim spa, toward the equipment end, when standing at the 8’ seating and equipment end.

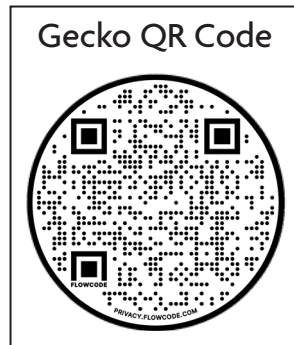
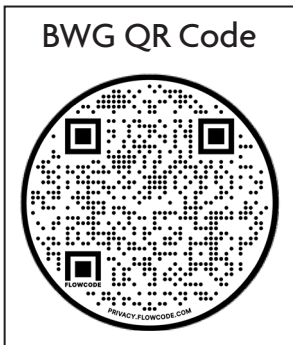
Scan applicable QR code or follow website links below to find more information:

BWG

balboawatergroup.com/getdoc.cfm?id=2571

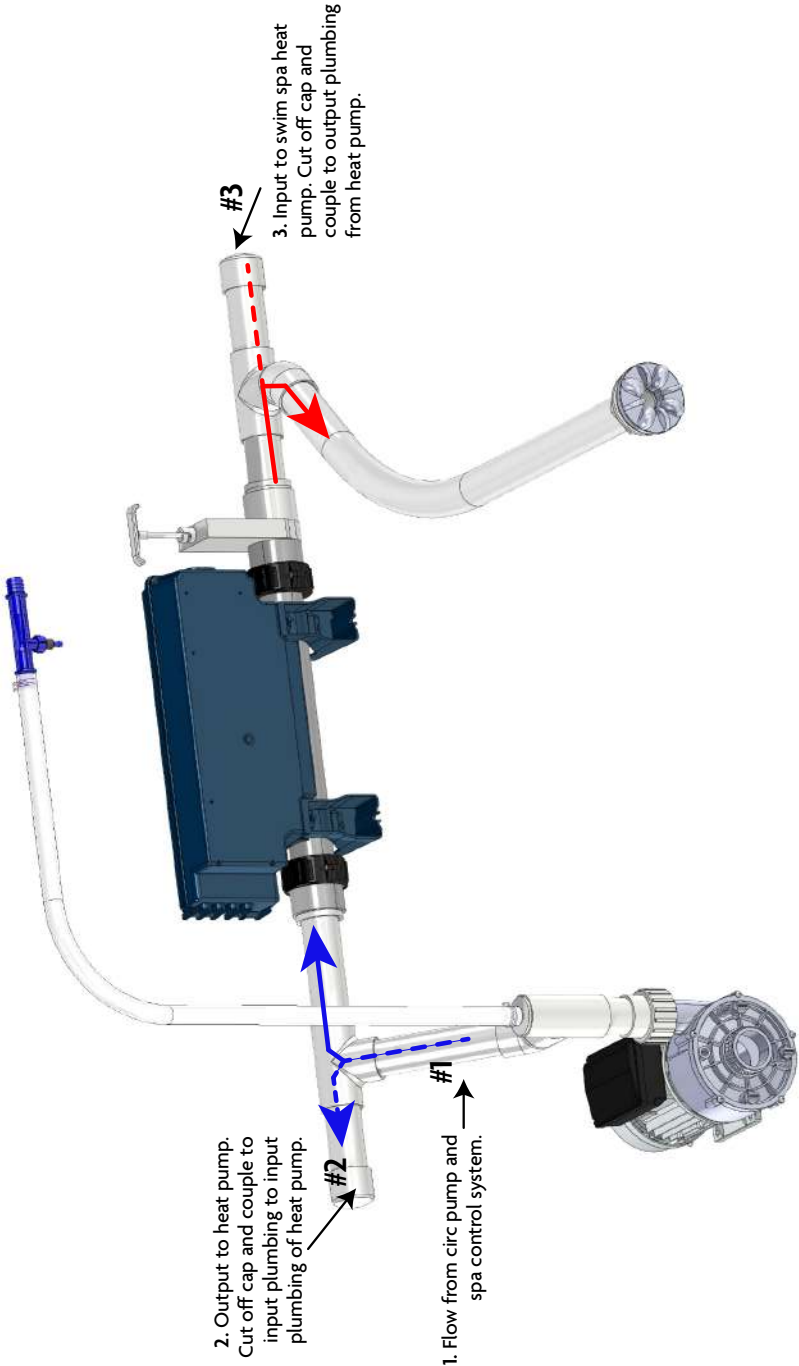
Gecko

dropbox.com/s/82sleeeu26c9jd9/intemp_techbook_en.pdf?dl=1



CIRCULATION PUMP - HEAT PUMP READY

FACTORY PREPPED PLUMBING & HEAT PUMP INSTALLATION

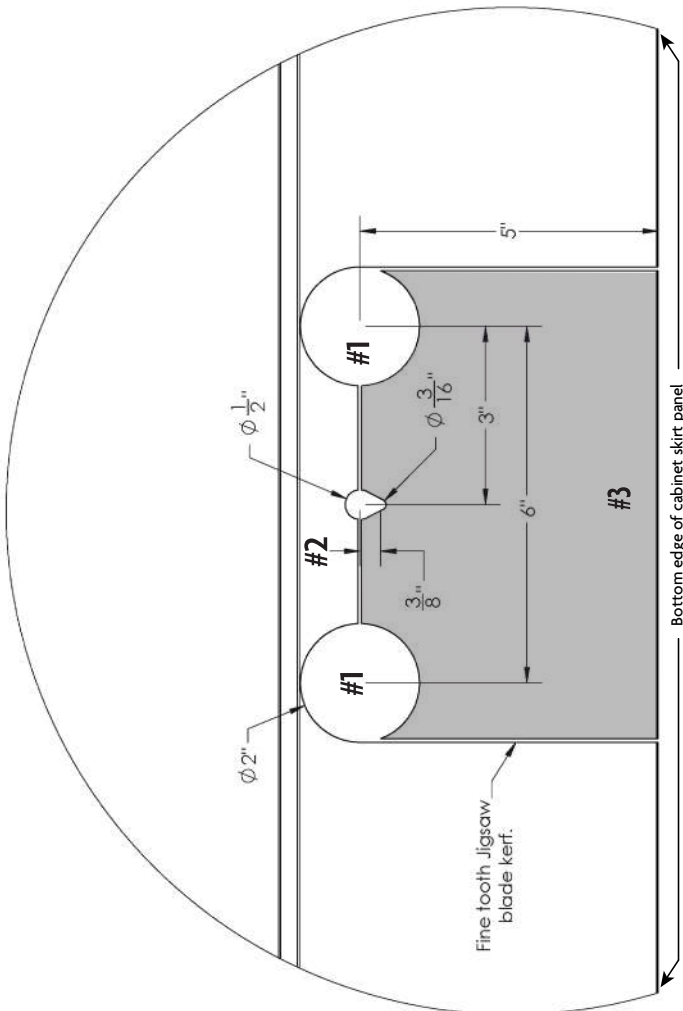


CIRCULATION PUMP - HEAT PUMP READY

FACTORY PREPPED PLUMBING & HEAT PUMP INSTALLATION

The below diagram represents a recommendation for handling the plumbing and electrical cords that will need to stub out of the skirt cabinet to the external heat pump. Review placement and spacing to ensure clearance with framing.

1. 2" hole for the 1.5" plumbing that routing out to or in from the heat pump. Use insulation on the exiting piping to reduce heating/cooling losses.
2. Use 1/2" stacked above 3/8" to allow tight fit for communication cords and power cord (power on top) to route in from the heat pump.
3. This section will be cut out to allow it to be removable, making the cabinet skirt panel removable for serviceability with the heat pump plumbing now routing through it. Install two screws along the bottom edge of this piece, that is being cut out, to hold it in place.



NONSLIP, COMFORT FLOOR SYSTEM (IF EQUIPPED)

The exclusive Nonslip, Comfort Floor System is available as a premium option on swim spas manufactured by Master Spas to provide better grip, traction and comfort on both the steps and floor of the swim spa. Making our swim spas as safe and easy as possible to use while getting in, out, or exercising.

CARE & MAINTENANCE RECOMMENDATIONS:

- Nonslip, Comfort Floor System cleans easily with soap, hot water and a brush (soft to medium bristle stiffness). Chlorine/bleach and water mixture, isopropyl rubbing alcohol or other household cleaner such as SoftScrub, Simple Green and 409 can be used to clean the pads.
- Be sure any soap or cleaning product is thoroughly rinsed from the pads and swim spa shell and this residue is removed before re-filling swim spa to prevent foaming.
- Always promptly attend to and clean any noticeable stains.

NOTE: Fading may occur over time and is considered natural wear and tear.

Never:

- Treat your water with bromine if Nonslip, Comfort Floor System is installed on your swim spa.
- Allow stains to develop without promptly being attended to and cleaned.
- Clean with acid based cleaning products.
- Use acetone or mineral spirits on Nonslip, Comfort Floor System or swim spa shell as damage caused to the swim spa shell from these chemicals would not be warranted.

NOTE: The Nonslip, Comfort Floor System is not compatible with the use of bromine sanitizer. Do not use this chemical if your swim spa is equipped with the Nonslip, Comfort Floor System.

LIMITED WARRANTY

H2X THERAPOOL MODELS



Note: This International Limited Warranty applies to residential use outside of the United States and Canada.

7 YEARS - SWIM SPA STRUCTURE

Master Spas warrants to the original retail purchaser the structural integrity of the spa against water loss from the spa due to defects in material or workmanship, in the spa structure for a period of 7 years from the date of the original retail purchase. Master Spas will either repair, including the parts and labor to repair the spa structure, or replace the nonconforming Spa Structure. In the event of replacement, the cost of labor and equipment for removal and replacement of the unit is the sole responsibility of the Purchaser.

5 YEARS - SHELL SURFACE

Master Spas warrants to the original retail purchaser that the acrylic finish will not blister, crack or delaminate for a period of 5 years from the date of original retail purchase as a result of defects in material or workmanship. Master Spas will either repair, including the parts and labor to repair the shell surface, or replace the nonconforming shell. In the event of replacement, the cost of labor and equipment for removal and replacement of the unit is the sole responsibility of the Purchaser. There is no Shell Surface Warranty on blemished units.

3 YEARS - EQUIPMENT

Master Spas warrants to the original retail purchaser the swim spa equipment (pumps, heater and control system) should a component of the Equipment Pack fail or malfunction due to defects in material and workmanship, for a period of 3 years from the date of the original retail purchase. Master Spas will either repair or replace the applicable component, including replacement parts and labor to install them (parts and labor).

3 YEARS - PLUMBING

Master Spas warrants to the original retail purchaser for a period of 3 years from the date of original retail purchase that the plumbing of the swim spa will not leak due to defects in material and workmanship (Master Spas will provide replacement parts and labor to repair or replace the applicable components).

3 YEARS - JETS

Jet internals are warranted against malfunctions due to defects in material for a period of 3 years from the date of original retail purchase (Master Spas will provide replacement jet internal parts only). The cost of shipping and installation of any jet internals is the sole responsibility of the purchaser. After initial delivery and startup, discoloring or fading of the plastics, corrosion of any stainless steel components and sticking/seizing of the adjustable jet internals or their spinning nozzles are specifically excluded from these warranty terms.

3 YEARS - NONSLIP, COMFORT FLOOR SYSTEM*

Master Spas warrants to the original retail purchaser that the factory installed Nonslip, Comfort Floor System will not separate from the floor of the swim spa for a period of 3 years. In the event the adhesion fails causing the pad to come free from the swim spa shell or separation of the pad material occurs; Master Spas will either repair or replace the applicable component(s) including parts and labor. Normal discoloring, fading, or wear of the Nonslip, Comfort Floor System is not covered by this limited warranty. Causes of these failures include but are not limited to water conditions, chemical levels or UV exposure. See the swim spa owner's manual for proper water chemistry levels, water maintenance and swim spa care for best longevity of your Nonslip, Comfort Floor System. Damage such as cuts, gouges and scrapes caused to the pad from objects or exercise equipment brought in to the swim spa would not be covered by this limited warranty. Nonslip, Comfort Floor System purchased and installed after the swim spa was manufactured by Master Spas is not covered by this limited warranty.

*If equipped. Options vary by model.

LIMITED WARRANTY

H2X THERAPOOL MODELS



Note: This International Limited Warranty applies to residential use outside of the United States and Canada.

5 YEARS/LIFETIME - SKIRTING* (MasterTech™ /DuraMaster Polymer™)

Master Spas warrants to the original retail purchaser that the optional MasterTech™ skirting will not crack or rip due to defects in material for a period of 5 years from the date of the original retail purchase. Master Spas warrants to the original retail purchaser that the DuraMaster Polymer™ skirting will not crack or rip for the life of the swim spa. Bowing that can occur under some conditions is considered normal and excluded by this limited warranty. Normal wear and weathering that occur overtime are not defects. If the skirting on the swim spa fails due to defects in materials or workmanship, Master Spas will replace the applicable skirting components (parts only). The cost of shipping and installation of any replacement skirting is the sole responsibility of purchaser.

1 YEAR - LED LIGHT SYSTEM*

Master Spas warrants to the original retail purchaser, for a period of 1 year from the date of original retail purchase that the optional, factory installed LED light system will not malfunction due to defects in workmanship and materials (parts and labor). If the LED light system or any component thereof fails due to defects in material or workmanship, Master Spas will either repair or replace the applicable components.

1 YEAR - OZONATOR*

Master Spas warrants to the original retail purchaser that the factory installed ozonator will not malfunction due to defects in materials or workmanship for a period of 1 year from the date of original retail purchase. If the ozonator malfunctions due to a defect in materials or workmanship, Master Spas will either repair or replace the applicable components including parts and labor.

1 YEAR - AUDIO EQUIPMENT*

Master Spas warrants to the original retail purchaser, the optional stereo and enclosure components within the audio system against malfunctions due to defects in material and workmanship for a period of 1 year (parts). This limited warranty on all optional Audio Equipment covers labor for a period of 1 year from the date of original retail purchase. After 1 year, the purchaser is solely responsible for any labor costs associated with the repair or replacement of any applicable audio components. Master Spas shall not be responsible for any damages or losses to any accessories (not supplied by Master Spas), including but not limited to iPods or similar systems, caused by a defect or malfunction of any Master Spas supplied component.

1 YEAR - UV*

Master Spas warrants to the original retail purchaser that the factory installed UV light will not malfunction due to defects in materials or workmanship for a period of 1 year from the date of original retail purchase. If the UV light malfunction due to a defect in materials or workmanship, Master Spas will either repair or replace the applicable components including parts and labor.

LIMITED WARRANTY

H2X TRAINER & CHALLENGER MODELS



Note: This Standard Limited Warranty applies to residential use within the United States and Canada.

10 YEARS - SWIM SPA STRUCTURE

Master Spas warrants to the original retail purchaser the structural integrity of the spa against water loss from the spa due to defects in material or workmanship, in the spa structure for a period of 10 years from the date of the original retail purchase. Master Spas will either repair, including the parts and labor to repair the spa structure or replace the nonconforming Spa Structure. In the event of replacement, the cost of labor and equipment for removal and replacement of the unit is the sole responsibility of the Purchaser.

7 YEARS - SHELL SURFACE

Master Spas warrants to the original retail purchaser that the acrylic finish will not blister, crack or delaminate for a period of 7 years from the date of original retail purchase as a result of defects in material or workmanship. Master Spas will either repair, including the parts and labor to repair the shell surface, or replace the nonconforming shell. In the event of replacement, the cost of labor and equipment for removal and replacement of the unit is the sole responsibility of the Purchaser. There is no Shell Surface Warranty on blemished units.

5 YEARS - EQUIPMENT

Master Spas warrants to the original retail purchaser the swim spa equipment (pumps, heater and control system) should a component of the Equipment Pack fail or malfunction due to defects in material and workmanship, for a period of 5 years from the date of the original retail purchase. Master Spas will either repair or replace the applicable component, including replacement parts and labor to install them (parts and labor).

5 YEARS - PLUMBING

Master Spas warrants to the original retail purchaser for a period of 5 years from the date of original retail purchase that the plumbing of the swim spa will not leak due to defects in material and workmanship (Master Spas will provide replacement parts and labor to repair or replace the applicable components).

5 YEARS - JETS

Jet internals are warranted against malfunctions due to defects in material for a period of 5 years from the date of original retail purchase (Master Spas will provide replacement jet internal parts only). The cost of shipping and installation of any jet internals is the sole responsibility of the purchaser. After initial delivery and startup, discoloring or fading of the plastics, corrosion of any stainless steel components and sticking/seizing of the adjustable jet internals or their spinning nozzles are specifically excluded from these warranty terms.

3 YEARS - NONSLIP, COMFORT FLOOR SYSTEM*

Master Spas warrants to the original retail purchaser that the factory installed Nonslip, Comfort Floor System will not separate from the floor of the swim spa for a period of 3 years. In the event the adhesion fails causing the pad to come free from the swim spa shell or separation of the pad material occurs; Master Spas will either repair or replace the applicable component(s) including parts and labor. Normal discoloring, fading, or wear of the Nonslip, Comfort Floor System is not covered by this limited warranty. Causes of these failures include but are not limited to water conditions, chemical levels or UV exposure. See the swim spa owner's manual for proper water chemistry levels, water maintenance and swim spa care for best longevity of your Nonslip, Comfort Floor System. Damage such as cuts, gouges and scrapes caused to the pad from objects or exercise equipment brought in to the swim spa would not be covered by this limited warranty. Nonslip, Comfort Floor System purchased and installed after the swim spa was manufactured by Master Spas is not covered by this limited warranty.

*If equipped. Options vary by model.
DO NOT DIVE.

LIMITED WARRANTY

H2X TRAINER & CHALLENGER MODELS



Note: This Standard Limited Warranty applies to residential use within the United States and Canada.

LIFETIME - SKIRTING* (DURAMASTER POLYMER™)

Master Spas warrants to the original retail purchaser that the DuraMaster Polymer™ skirting will not crack or rip for the life of the swim spa. Bowing that can occur under some conditions is considered normal and excluded by this limited warranty. Normal wear and weathering that occur overtime are not defects. If the skirting on the swim spa fails due to defects in materials or workmanship, Master Spas will replace the applicable skirting components (parts only). The cost of shipping and installation of any replacement skirting is the sole responsibility of purchaser.

1 YEAR - LED LIGHT SYSTEM*

Master Spas warrants to the original retail purchaser, for a period of 1 year from the date of original retail purchase that the optional, factory installed LED light system will not malfunction due to defects in workmanship and materials (parts and labor). If the LED light system or any component thereof fails due to defects in material or workmanship, Master Spas will either repair or replace the applicable components.

1 YEAR - OZONATOR*

Master Spas warrants to the original retail purchaser that the factory installed ozonator will not malfunction due to defects in materials or workmanship for a period of 1 year from the date of original retail purchase. If the ozonator malfunctions due to a defect in materials or workmanship, Master Spas will either repair or replace the applicable components including parts and labor.

1 YEAR/90 DAYS - AUDIO EQUIPMENT*

Master Spas warrants to the original retail purchaser, the optional stereo and enclosure components within the audio system against malfunctions due to defects in material and workmanship for a period of 1 year (parts). This limited warranty on all optional Audio Equipment covers labor for a period of 90 days from the date of original retail purchase. After 90 days, the purchaser is solely responsible for any labor costs associated with the repair or replacement of any applicable audio components. Master Spas shall not be responsible for any damages or losses to any accessories (not supplied by Master Spas), including but not limited to iPods or similar systems, caused by a defect or malfunction of any Master Spas supplied component.

1 YEAR - UV*

Master Spas warrants to the original retail purchaser that the factory installed UV light will not malfunction due to defects in materials or workmanship for a period of 1 year from the date of original retail purchase. If the UV light malfunction due to a defect in materials or workmanship, Master Spas will either repair or replace the applicable components including parts and labor.

LIMITED WARRANTY

EXCLUSIONS AND LIMITATIONS

EXCLUSIONS

This limited warranty is enforceable only by the original retail purchaser from the date of original retail purchase but is voidable if the entire purchase price has not been paid to the retail dealer. Light bulbs, light lenses, fuses, overlays/labels, covers, swim spa pillows, exercise kit/equipment, unwired factory supplied GFCI (H2X Challenger only) or any dealer installed accessories are specifically excluded from this limited warranty. All warranties are void if the swim spa is placed in commercial service. Any swim spa in service at a residential rental property, the warranty periods are reduced as follows: any warranty period of 4 years or more, are reduced to 2 years; any warranty period of 2 to 3 years, are reduced to 1 year; any warranty periods of 1 year or less, remain the same. Normal wear and weathering of finishes and components are not defects and specifically excluded from this limited warranty. In the event it is necessary to remove the swim spa from the residential premises to repair or replace any warrantable item, any and all cost of swim spa removal and replacement including but not limited to removal of the original swim spa and transportation of the replacement swim spa, damages to landscaping, decking, fencing or other structural alteration, or any cost related to obtaining access to the swim spa are the sole responsibility of the purchaser. Swim spa covers are not included or covered by this swim spa warranty.

LIMITATIONS

This limited warranty is voidable if the spa has been subject to misuse, alteration or attempted alteration, repairs or attempted repairs by a non-approved service center or if a failure or malfunction is due to improper installation, improper water chemistry, improper maintenance or lack of normal maintenance as prescribed in the Master Spas Owner's Manual, an act of God, weather conditions, animals, rodents, pests or any damage from causes beyond the control of Master Spas. Misuse or abuse shall mean operation of the spa other than in conformity with the Master Spas Owner's Manual. Such misuse and abuse shall include but not be limited to the following:

- Damage of the swim spa surface and components caused by leaving the swim spa uncovered or due to covering the swim spa with plastic film of any kind.
- Damage to the swim spa surface and components caused by use of a non-insulating cover or an unapproved cover not manufactured by Master Spas when the swim spa is subject to weather conditions and sun.
- Damage to the swim spa surface and components caused by contact with unapproved cleaners or solvents.
- Damage caused by operation of the swim spa at water temperatures outside the range of 34° F - 104° F.
- Freeze damage.
- Damage caused by unapproved sanitizers such as calcium hypochlorite, sodium hydroxide, "tri-chlor" type chlorines or any sanitizing chemical that may remain undissolved on the swim spa surface.
- Damages or malfunction due to a dirty, clogged, calcified filters or use of an unapproved filter cartridge.
- Damages or malfunction caused by failure to provide even, proper support for the swim spa.
- Damages or malfunction caused during installation of the swim spa.
- Damages or malfunction caused by use of unapproved filter cartridges.

LIMITED WARRANTY

EXCLUSIONS AND LIMITATIONS

WARRANTY REGISTRATION AND WARRANTY CLAIM PROCEDURE

The original retail purchaser should register their swim spa purchase within 10 days from the date of original retail purchase to establish proof of purchase with Master Spas. Failure to register does not void this limited warranty but, upon any warranty claim, proof of purchase must first be provided to confirm original retail purchase date to the original retail purchaser. Swim Spa Registration can be submitted online at www.masterspas.com/resources. In the event of a warranty claim of a defect or malfunction covered under the provisions of this limited warranty, the original retail purchaser must first notify in writing the retail dealer who sold the swim spa within ten (10) days of the initial malfunction or discovery of defect. If the retail dealer does not provide service, then the purchaser should contact Master Spas customer service department, via the web site, or provide written notice of the malfunction or defect at the address below. Upon notice of the warranty claim, the retail dealer or an approved independent service center representative will arrange inspection of the swim spa with the retail purchaser to determine if the claimed malfunction or defect is a covered malfunction or defect under this limited warranty. If it is determined that the malfunction is not covered by this limited warranty, the cost of the service call is the sole responsibility of the purchaser. If it is determined that the malfunction or defect is covered under this limited warranty, Master Spas through the retail dealer, or approved independent service center will repair or replace the covered item. In the event of swim spa replacement, the replacement swim spa will carry the balance of the original swim spa warranty from the original retail purchase date. Master Spas reserves the right for its dealers or approved service centers to collect from the retail purchaser reasonable travel expenses. In addition, access charges will be assessed if the swim spa is not reasonably accessible for inspection, repair or replacement. This limited warranty is extended only to the original retail purchaser and is not transferable. This limited warranty becomes void upon the transfer of ownership of the swim spa or moving of the swim spa to a different location.

DISCLAIMERS

MASTER SPAS LLC, NEITHER ASSUMES NOR DO WE AUTHORIZE ANY OTHER PERSON TO ASSUME FOR US, ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF SWIM SPAS MANUFACTURED BY MASTER SPAS. THIS LIMITED WARRANTY SHALL BE THE EXCLUSIVE REMEDY AVAILABLE TO A PURCHASER AND MASTER SPAS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM MISUSE OF THE SWIM SPA OR CAUSED BY ANY DEFECT, FAILURE OR MALFUNCTION OF THE SWIM SPA, WHETHER A CLAIM IS BASED UPON WARRANTY, CONTRACT, NEGLIGENCE OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS LIMITATION MAY NOT APPLY TO YOU.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, THIS LIMITED WARRANTY SPECIFICALLY EXCLUDES ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE, OTHERWISE ALL IMPLIED WARRANTIES ARE LIMITED IN DURATION TO TWO (2) YEARS FROM THE ORIGINAL DATE OF RETAIL PURCHASE. SOME STATES DO NOT ALLOW THE LIMITATION OF THE DURATION OF IMPLIED WARRANTIES, SO THIS LIMITATION MAY NOT APPLY TO YOU. THERE ARE NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF ANY KIND OR NATURE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. SOME STATES DO NOT ALLOW THE LIMITATIONS OF REMEDIES SO THESE LIMITATIONS MAY NOT APPLY TO YOU.

IF YOUR SWIM SPA IS DESIGNATED BY MASTER SPAS AS A "BLEM" OR AS "BLEMISHED", THE SHELL SURFACE IS NOT WARRANTED AND THE SWIM SPA IS PURCHASED "AS IS" REGARDING ANY COSMETIC BLEMISHES.



6927 Lincoln Parkway, Fort Wayne IN 46804
800 860 7727 masterspas.com

H2X



Customer Service: masterspas.com/resources

6927 Lincoln Parkway, Fort Wayne, IN 46804

800.860.7727 CustomerService@MasterSpas.com

Stay Connected, Keep in Touch



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#masterspas

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Made in the USA
with U.S. and imported parts

POP25H2XOM REV. 03/2025