Owner’s Manual
**ALERT**

**Your new Swim Spa GFCI will trip.**

A Ground Fault Interrupter (GFCI) Trip Test must occur to allow proper spa function.

Your Swim Spa came with special instructions for the installer / electrician. If they have not already advised you on what to do or expect form the GFCI Trip Test, please contact them for instructions.

If the GFCI breaker connected to your spa trips, this is normal behavior. Please reset the breaker and enjoy your spa. The trip test has been completed successfully.

If your Swim Spa was not wired to a GFCI breaker or your breaker fails the GFCI Trip Test, the spa will repeatedly attempt (at preset intervals) to trip the breaker in the future until such time that it triggers a GFCI Trip.

GFCI breakers are important safety devices required by code for your Swim Spa. For more information, refer to your dealer or to the section in your Owner’s Manual titled “Ground Fault Circuit Interrupter.”
SAVE THESE INSTRUCTIONS.

NOTE: When installing and using this equipment, basic safety precautions should always be taken to reduce the risk of electrical shock, to ensure safe usage, and to safeguard the user's health. Failure to follow instructions and warnings contained in this Owner's Manual, in the Swim Spa Installation Guide, and on the Swim Spa itself may result in severe personal injury, including death, as well as property damage.

WARNING: Children should not use Swim Spa or hot tubs without adult supervision.

WARNING: Do not use Swim Spa or hot tubs unless all suction guards are installed to prevent body and hair entrapment.

WARNING: People using medications and/or having an adverse medical history should consult a physician before using a Swim Spa or hot tub.

WARNING: People with infectious diseases should not use a Swim Spa or hot tub.

WARNING: To avoid injury exercise care when entering or exiting the Swim Spa or hot tub.

WARNING: Water temperature in excess of 38° C may be injurious to your health.

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.

WARNING: Pregnant, or possibly pregnant, women should consult a physician before using a Swim Spa or hot tub.

WARNING: Before entering the Swim Spa or hot tub measure the water temperature with an accurate thermometer.

WARNING: Do not use a Swim Spa or hot tub immediately following strenuous exercise.

WARNING: Prolonged immersion in a Swim Spa or hot tub may be injurious to your health.

WARNING: Do not permit electric appliances (such as a light, telephone, radio, or television) within 1.5m of the Swim Spa or hot tub.

WARNING: Maintain water chemistry in accordance with manufacturer's instruction.

WARNING: The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tubs and Swim Spa.
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IMPORTANT SAFETY INSTRUCTIONS

1. **READ AND FOLLOW ALL INSTRUCTIONS**

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

3. A wire connector is provided on this unit to connect a minimum 6 AWG (5.15 mm²) 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.

4. (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.

5. **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 spa unless they are supervised at all times.

6. **DANGER** - Risk of injury. The suction fittings in this 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 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.

7. **DANGER** - Risk of Electric Shock. Install at least 5 feet (1.5m) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 6 AWG (5.15 mm²) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.

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

9. **WARNING** - To reduce the risk of injury:
   a. The water in a spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
   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 spa water temperatures to 38°C (100°F).
   c. Before entering a spa the user should measure the water temperature since the tolerance of water temperature-regulating devices varies.
   d. The use of alcohol, drugs, or medica-
tion before or during 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 spa.

10. SAVE THESE INSTRUCTIONS

NOTE: Check with your state/local code enforcement officer to determine electrical code requirements and compliance. Use a qualified licensed electrician to complete all spa final electric connections.

TO AVOID RISK OF ELECTRICAL SHOCK:

1. A green colored terminal or a terminal marked G, GR, Ground, Grounding, or the international symbol is located on the side of the supply terminal box or compartment. This terminal must be connected to the grounding means provided in the electric supply service panel, using a continuous copper wire equivalent in size to the circuit conductors supplying this equipment. *IEC Publication 417, Symbol 5019.

2. At least two lugs marked “BONDING LUGS” are provided on the external surface or on the inside of the supply terminal box or compartment. Connect the local common bonding grid (house-hold ground) in the area of the hot tub or spa to these terminals, using an insulated or bare copper conductor not smaller than No. 6 AWG.

3. All field-installed metal components such as rails, ladders, drains or similar hard ware located within 5 ft. of the spa or hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.

4. Never connect unit to a power supply with a load controller.

5. Install to provide drainage of compartment for electrical components.

6. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors. This disconnecting means must be readily accessible for operation but installed at least 1.5m from the spa. All electrical connections should comply with local regulations.

Do's and Don'ts

For years of spa enjoyment:

Do:
• Save these instructions!
• Replace the cover immediately after use.
• Keep the cover locked when spa is not in use.
• Be aware of the dangers of a wet and slippery surface. Use caution when entering and exiting your spa.
• Have a licensed electrician make all final electrical connections.
• Replace worn, frayed or broken electrical cords.
• Keep the water chemistry correctly balanced. Untreated spa water will cause
problems with your spa and equipment as well as being a health risk.
• Clean the spa filter monthly or as needed.
• Position the spa so that all sides remain accessible for maintenance.
• Use a bathing cap for long hair.
• Refer to information on hyperthermia, next page.
• Use only authorized spa care products for the best performance and to keep the water properly balanced.

Don't:
• Use the spa at 104°F (40°C) for long periods of time (more than 30 minutes). See Hyperthermia, below.
• Use an extension cord to power your spa.
• Allow anyone to stand on the spa cover. It is not designed to support weight.
• Power the spa unless it is filled with water to the water level mark on the Weir door.
• Operate the pump on high speed for extended periods of time with the cover in place. Extended operation can cause heat build-up and interfere with spa operation.

Hyperthermia
The causes, symptoms, and effects of hyperthermia may be described as follows: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include:
  a. Failure to perceive heat
  b. Failure to recognize the need to exit spa or hot tub
  c. Unawareness of impending hazard
  d. Fetal damage in pregnant women
  e. Physical inability to exit the spa or hot tub, and
  f. Unconsciousness resulting in the danger of drowning.

WARNING - The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.
SWIM SPA INSTALLATION

Danger: Electrical shock risk. Install at least 1.5m from all metal surfaces.

The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors. The disconnecting means must be readily accessible but installed at least 1.5 meters from the Swim Spa water. All electrical connections should comply with local regulations.

The appliance should be supplied through a residual current device (RCD) with a rated tripping current not exceeding 30 mA. Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules. Parts containing live parts, except parts supplied with safety extra-low voltage not exceeding 12 V, must be inaccessible to a person in the bath. Earthed appliances must be permanently connected to fixed wiring.

Site and Positioning

MAAX® Spas recommends that a Swim Spa be placed in its final installation site by crane. In any installation where a crane cannot be used, you may want to consult with a professional rigging company.

When utilizing a crane for delivery, be sure that the crane operator understands the weight of the Swim Spa, the height it must be lifted, and the distance that the crane boom must travel. Be sure that the crane operator uses an 8' spreader bar and that the straps wrap all the way around the bottom frame of the Swim Spa.

Locate the Swim Spa on a solid, level foundation keeping in mind the weight of the filled Swim Spa (in excess of 18,000 lb. (8165 kg.) on some models). If you have any doubts about the load bearing ability of your chosen site, contact an architect or a building contractor. The entire perimeter of the Swim Spa Frame and bottom must be evenly supported.

We recommend that you provide a concrete foundation pad for the Swim Spa. The foundation pad should be wider and longer than the Swim Spa by at least 12 inches (30 cm) in each direction. Failure to provide a level surface could structurally damage your Swim Spa and void the warranty.

The Swim Spa must be installed to allow access for service and maintenance on all four sides; therefore, if you choose to install your Swim Spa below grade level, you will be required to have a vault or pit constructed to prevent ground water, rain, snow melt, or sources of water from collecting around the equipment of the Swim Spa. The vault must have either sufficient drainage through a drain line or through the use of a sump pump. The vault must have adequate safe access as to allow for routine maintenance of the Swim Spa components.

WARNING: ACCESS TO THE Swim Spa SHOULD BE CONTROLLED IN ACCORDANCE
WITH ALL APPLICABLE NATIONAL AND LOCAL CODES. IN SOME LOCATIONS THIS MAY INCLUDE AN APPROVED FENCE WITH SELF-CLOSING, SELF-LOCKING GATE AND/OR A LOCKABLE SAFETY HARDCOVER FOR OUTDOOR USE AND A LOCKABLE DOOR AND/OR SAFETY HARDCOVER FOR INDOOR USE.

Outdoor Installation
The following considerations apply when installing your Swim Spa outdoors:

1. Local codes pertaining to fencing.
2. Local electrical and plumbing codes.
3. View from your house.
4. Wind direction.
5. Exposure to sunlight.
6. Location relationship to trees (twigs, leaves and shade).
7. Dressing and bathroom location.
8. Storage area for maintenance equipment and chemicals.
9. Location to facilitate adult supervision.
10. Landscaping and night time lighting.
11. Accessibility to equipment.
12. Location and routing of power supply to Swim Spa and foot traffic.

Indoor Installation
In addition to the Outdoor installation consideration, please also understand that the following considerations apply when installing your Swim Spa indoors:

1. Indoor Swim Spa promote high humidity. Using either ventilation fans or commercial grade de-humidifiers will help to reduce the humidity. Consult your dealer for details.
2. Floor drains must be provided near the Swim Spa to drain off water that may cause falls and/or water damage. Water will splash out of the Swim Spa during normal use when swimming and when exiting the Swim Spa.
3. Surface area of foundation pad and surrounding area should be flat with a non-skid finish. Carpeting or other porous materials may retain moisture, which leads to mold, mildew and odors and is not recommended.
4. Walls, ceilings, woodwork should be made of materials capable of withstanding high humidity.
5. MAAX® Spas only recommends the use of a concrete foundation pad to support your Swim Spa. If you intend to install your Swim Spa in an area where you cannot utilize a concrete foundation pad, you must consult with a structural engineer to ensure the floor load bearing capacities are adequate to support the concentrated Swim Spa weight, the weight of the Swim Spa occupants, and any furniture or people that will be using the immediate area of the Swim Spa.
6. During shipment from the factory, plumbing components may loosen; therefore it is imperative that the Swim Spa is double checked for leaks before installing to avoid possible water damage. Your dealer may include this service in their installation procedures.
7. Indoor sun rooms are capable of maintaining high ambient temperatures which may affect the Swim Spa water temperature. It is NOT recommended that you operate your filter cycles for longer than 4 hours per day under these conditions.

Danger: Electrical shock risk. Install at least 5 feet (1.5 m) from all metal surfaces.
SWIM SPA SYSTEM COMPONENTS

A. Filter Skimmer/Weir Door: Removes floating debris from the water surface, provides a water return path to equipment, and houses water filter elements. Swim Spa Pro and Pro models utilize 2 Filter Skimmers and the Swim Spa Duo-Pro model utilizes 3 Filter Skimmers.

B. Topside Control Panel: Used to control temperature setting, jet pumps, circulation system, underwater lights and ambient effect lighting. Swim Spa Lounge and Pro models utilize one topside control panel. The Swim Spa Duo-Pro model utilizes two topside control panels, one for the hot tub portion and one for the swim area.

C. Air Controls: Increases or decreases air entering the jets. Close during heating for maximum efficiency. It is recommended that air controls to the Turbo Swim jets remain closed during swimming to provide a clearer stream of water which is free from air bubbles.

D. Equipment Pack Service Panel (no user serviceable parts): Spa support system consisting of electronic control pack, pumps, heater, UV water sanitizer, plasma UV ozone generator, LED lighting interface and associated electrical controls (not shown). The Swim Spa Lounge and Pro models feature one control pack, three jet pumps, one UV sanitizer, one plasma UV ozone generator and one LED lighting interface. The Swim Spa Duo-Pro model features two independent electronic control packs, four jet pumps, two UV sanitizers, two plasma UV ozone generators and two LED lighting interfaces.

E. Drain Access (Adjacent to the equipment service panel): Swim Spa drain faucets are located immediately behind the front door panel. Remove panel to access.

F. Manufacturer's Identification Label: Contains identification information for warranty service (serial number, model number, etc.) and electrical information (ampere rating and ampere requirements). Located on the lower right side of the front door panel.

G. Diverter Valve: Used to direct the flow of water between the massage jets in the hydrotherapy seats and the swim jets. By turning the diverter valve clockwise, the water is directed to the massage jets in the hydrotherapy seats and by turning the diverter jet counterclockwise, the water is directed to the swim jets.
SWIM SPA COMPONENTS

Reference only. Equipment is not always as shown.

A. Pumps: Each pump features dual-speed capacity. Low speed is utilized for efficient water circulation during filtration and heating, and for lighter therapy and exercise programs; high speed is engaged for maximum action of the jets when deeper therapy or more rigorous exercise programs are desired. All pump functions are activated by topside controls.

B. Electronic Control Pack: All Swim Spa functions are operated by this control. There are no user-serviceable components in this control. Opening this control may subject you to high voltage and danger of electrical shock or electrocution.

C. Slice Valve: Used to shut off water flow from the Swim Spa vessel to pumps and electronic control pack while servicing. Quantity will vary depending on model. All valves should be open during normal operations.

D. Electrical Connections: Contains outlets for electrical plug connections. Connections are made during manufacture of the pool.

E. Heater Assembly: Thermostatically controlled and equipped with an overheat safety shut-off.

Note: No consumer serviceable parts. We recommend that only an authorized service technician perform Swim Spa repair or service.

Warning and Installation Label: Contains important safety information, hazard warnings and installation instructions.
JETS AND AIR CONTROLS

Swim Area Jets
Swim Spa Turbo Swim jets are designed to produce a smooth flow of water with high output to create a consistent swim stream. Whether you want to swim or walk/jog against the force of the jets, you will find the flow of water deep enough and swift enough to meet your individual needs.

Hydrotherapy Area Jets
All of the hydrotherapy jets are individually engineered to provide a unique hydro-massage. Depending on the model, your Swim Spa will have a combination of the following jets:

Cyclone Therapeutic (XL Cyclone, LS Cyclone, & Cyclone):
Positioned to focus on large muscle groups, these jets deliver a concentrated, high volume stream of water for a deep massage. Each jet is fully adjustable, allowing users to set the water flow to the most comfortable setting. The nozzle can be rotated to target sore muscle areas.

Cyclone Turbo Swirl Jets (XL Cyclone, LS Cyclone, & Cyclone):
Positioned to focus on muscle tension zones, these jets deliver a spinning V-shaped water stream for a gentle, pulsating massage. Each jet is fully adjustable, allowing users to set the water flow to the most comfortable setting.

Cluster Jets:
 Positioned in the foot well or shoulder areas of the Swim Spa, these jets deliver a penetrating massage to dissolve tension. This jet may be the entry point for ozone produced during the automatic filtration cycles, and, as such, is not adjustable.

Note: Ozone production is suspended when other functions are activated on the control panel by the Swim Spa user.

All full sized jets are adjustable from a fully open to closed position. It is very important that you NEVER SHUT ALL FULL SIZED JETS OFF AT ONE TIME!

Cleaning or Replacing Jets
Hard water can cause calcium/mineral buildup that can restrict or bind the jets. A jet consists of a face plate and a nozzle. Rotate these parts weekly and remove/clean monthly to ensure free movement.

NOTE: It is not necessary to drain the pool or spa to clean or remove the jets.

Rotating the jet face plate and nozzle
• Rotate the jet face left and right (open and closed).
• Return the face plate to the full open position.
• Turn the jets on to high speed.
• Twist the nozzle left and right.
• Rotate the nozzle in the socket.

NOTE: If the jet insert disengages from the Swim Spa housing, see steps to reinstall below.

Cleaning the jets
To remove the jet insert, use the palm of your hand to exert pressure on the face of the jet. Turn counterclockwise until the jet ‘clicks’.
Gently pull the jet assembly from the housing. To **clean** the jet insert and housing, use a pressurized hose and spray the inside of the jet. Soak the jet in a diluted Swim Spa cleaning solution, rinse. Wipe the inside of the housing to remove any debris.

To **reinstall** the jet, line up the tab on the backside of the barrel with the groove in the body. Use the palm of your hand to gently tab the jet until it snaps into position.

**Air Controls**
The intensity of the jet action can be controlled by altering the amount of air injected with water through the jets. Your Swim Spa has 2 to 4 air controls located on the lip of the Swim Spa. Each control activates air to specific jets in the Swim Spa allowing you to create various combinations and levels of jet action to suit individual preferences. Turn the control counter-clockwise to turn the air off and clockwise to turn air on.

**NOTE:** Air controls should be closed during heating cycles for maximum energy efficiency.
ELECTRICAL INFORMATION

Caution: Risk of electrical shock. Read and follow all instructions.

Important Safety Instructions
All electrical connections to this spa package MUST be accomplished by a qualified licensed electrician in accordance with the National Electrical Code (NEC) and with state/local electrical codes in effect at the time of installation.

NOTE: Prior to performing any service to the spa equipment, turn OFF all primary electrical power at the main circuit breaker or disconnect panel.

To make spa electrical connections, remove the exterior equipment access panel, locate the electrical control box, remove the control box cover and follow the wiring diagram on the inside of the control box cover. Connections should be made using copper conductors only. Connecting wires, circuit breakers, or fuses must all be sized to accommodate the Total Ampere load as specified on the equipment label. This equipment is designed to operate on 60Hz alternating current only, at 240 volts.

NOTE: All unions must be hand-tight and all slice valves must be locked in the OPEN position before filling or refilling spa! A clip is provided to help keep the slice valve open. Run spa and check for union leaks before reinstalling front panel.

Ground-Fault Circuit Interrupter
A qualified licensed electrician shall connect the spa to a circuit protected by a GFCI. This is a requirement by the National Electric Code, article 680-42, and is also in compliance with Underwriter’s Laboratories, Inc.

Installation Options
While knockouts are provided in the cabinet base to bring the conduit to the equipment compartment, a hole may need to be drilled in the pedestal or base if an alternate electrical service entrance is desired.

Refer to the manufacturer’s nameplate located on the kick plate to determine your spa’s ampere requirements.

240 Volt Installation
Permanently Connected:
The Duo-Pro spa side must be connected to a 240 volt electric service.

Electrical Requirements:
- 240 volt, 60 Hz, single phase, 40 amp., 4-wire service (line 1, line 2, neutral, and ground or,
  *30 Amp Option

Note: The heater can be activated only with the pump on low speed. Only the spa light can be operating at the same time without disabling the heater. See your authorized MAAX Spas dealer to select this option.

240 Volt Installation
Permanently Connected:
The Lounge, Pro and Duo-Pro swim side must be connected to a 240 volt electric service.
Electrical Requirements:
• 240 volt, 60 Hz, single phase, 60 amp.,
  4-wire service (line 1, line 2, neutral,
  and ground or,
*40 Amp Option
Note: The heater can be activated only with
the pump on low speed. Only the spa light
can be operating at the same time without
disabling the heater. See your authorized
MAAX Spas dealer to select this option.

Spas installed for 240 volt, 60 Hz, single
phase operation require a 4-wire, 60 amp
240 volt sub-feed in non-metallic pipe to the
spa equipment compartment (line 1, line 2,
neutral and ground). A green colored termi-
nal (or wire connector marked “G”, or “GR”, or
“Grounding”) is provided in the control box.
To reduce the risk of electrical shock, connect
this terminal or connector to the grounding
terminal of your electrical service or supply
panel with a continuous green insulated cop-
per wire equivalent to the circuit conductor
supplying this equipment, but no smaller
than No. 12 AWG. A second pressure wire
connector is provided on the surface of the
control box for bonding to local ground
points. To reduce the risk of electrical shock.
This connector should be bonded with a No.
6 AWG copper wire to any metal ladders,
water pipes, or any metal within 5 feet (1.5m)
of the spa.

Note: Copper wire is strongly recommend-
ed for all electrical connections.
START UP PROCEDURES

Follow recommendations for site location and electrical connection.

1. Use standard “tap water” to fill the Swim Spa by draping a garden hose over the wall. Take care to wrap the metal end of the hose with a soft cloth or set the end of the hose in the filter canister to protect the Swim Spa surface from the metal end of the hose. The metal end of your hose can become rough or jagged and may scratch the surface of your Swim Spa, and this damage is not covered under your warranty. Fill the Swim Spa until the water level is 4 1/2” to 5” from the top lip.

*Never use “softened” water in your pool or spa.* Softened water can impact the chemical balance of the water and lead to degradation of metal plumbing fittings.

2. After you have assured that the Swim Spa is full of water and that all plumbing valves are open, turn power on at circuit breaker or disconnect panel.

3. Open the air controls, located on the top lip, and cycle the jets from high to low. Water should come from the therapy jets. If water flow is not established, turn off jets and see Priming Your Swim Spa (this page).

4. Add chemicals. See Chemical Treatment and Water Maintenance section. Follow Operating Instructions for your particular model to set heat to the desired temperature. Initially, you may find that the Swim Spa requires 18 to 24 hours on 230 Volt installations to reach temperature. Keep your thermal cover on the unit and close the air controls to help the heating process.

**Priming Your Swim Spa**
When filling your Swim Spa for the first time or, after draining and refilling the Swim Spa, you may need to bleed air from the system. Should you experience an air-lock on Pump 1, remove the filter basket cover, insert a garden hose through the center hole of the filter as far as possible without using force. Hold the hose in place and turn on the water. This forces water into the pump and forces the air out.

**Important:** Do not operate the Swim Spa without full water flow.
The 460 Control System offers you the ultimate in Swim Spa control. The backlit, Liquid Crystal Display (LCD) displays current water temperature, set point water temperature, time, and operating mode settings. Each feature of the system is actuated through a control panel touch pad. Touch the appropriate pad to activate the desired function. At start up, when power is supplied to the Swim Spa, the controls will operate properly and safely under the factory settings. The Swim Spa will be in Standard Mode, a temperature setting of 100°F (38°C), and a filtration cycle duration of 2 hours. To fully utilize the unique capabilities of the control system, it is important to know how to set the temperature, operate the pumps, operate the light, adjust the mode setting, and change the filtration cycles.

NOTE: In event of a power outage or failure, the Control System should retain all settings, except time of day. If settings are lost, re-program per the instructions in this manual and contact your dealer.
User's Pads
User's Pads are the buttons located on the topside control panel and are used to program various Swim Spa functions (i.e., turn on Swim Spa light, set temperature, etc.). The following table defines the pads:

<table>
<thead>
<tr>
<th>Pad</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP</td>
<td>• Increase temperature</td>
</tr>
<tr>
<td></td>
<td>• Change time settings</td>
</tr>
<tr>
<td></td>
<td>• Used in alternate programming sequences</td>
</tr>
<tr>
<td>Down</td>
<td>• Decrease temperature</td>
</tr>
<tr>
<td></td>
<td>• Change time settings</td>
</tr>
<tr>
<td></td>
<td>• Used in alternate programming sequences</td>
</tr>
<tr>
<td>Time</td>
<td>• Exit programming</td>
</tr>
<tr>
<td></td>
<td>• View time of day</td>
</tr>
<tr>
<td></td>
<td>• Change set times of Swim Spa filter cycles</td>
</tr>
<tr>
<td></td>
<td>• Lock/unlock temperatures</td>
</tr>
<tr>
<td></td>
<td>• Lock/unlock temperatures</td>
</tr>
<tr>
<td>Prog</td>
<td>• Switch modes</td>
</tr>
<tr>
<td></td>
<td>• Set time and filtration cycles</td>
</tr>
<tr>
<td>Light</td>
<td>• Turn all spa light on or off</td>
</tr>
<tr>
<td>Jets 1</td>
<td>• Activate primary filtration pump</td>
</tr>
<tr>
<td></td>
<td>• Used in alternate programming sequences</td>
</tr>
<tr>
<td>Jets 2</td>
<td>• Activate therapy pump</td>
</tr>
</tbody>
</table>

Temperature
The maximum set temperature is 104°F (40°C) and the minimum set temperature is 80°F (26°C). The current water temperature will show on the display unless the primary pump has not been running, in which case two dashes (--) will show on the display. If two dashes are displayed, you must first start the pump by pressing the JETS 1 pad. Wait until the water temperature is displayed (approximately 2 minutes).

The set temperature of your Swim Spa may easily be increased or decreased at any time using the UP or DOWN pads. When either of these pads is touched, the set temperature will be displayed in the LCD display window. Each successive touch will change the set temperature 1°F (0.5°C) in the chosen direction. After 3 seconds the LCD will automatically display the water temperature or dash lines. If the Swim Spa is set in Standard mode or in a filtration cycle, adjusting the set temperature may result in activating the heater. When the heater is operating, the heat icon will be displayed in the LCD.

JETS 1
Touch the JETS 1 pad to activate the primary filtration and jet pump. The sequence of the jet action is:

1 touch = Low jets
2 touches = High jets
3 touches = Off

JETS 2
Touch the JETS 2 pad to activate the number 2 Jet pump. The sequence of jet action is:

1 touch = Low jets
2 touches = High jets
3 touches = Off

The low speed operation of Pump 1 and 2
is timed to automatically turn off after four hours of operation.

The high speed operation of Pump 1, and the low and high speed operation of Pump 2 and Pump 3, is timed to automatically turn off after 15 minutes of operation.

**Note:** Pump 1 will automatically operate in low speed whenever the Swim Spa calls for a filtration cycle or heat.

When this automatic activation occurs, the low speed of Pump 1 cannot be turned off; however, all other control functions can be activated.

**Temperature Lock**
Once you have set the desired water temperature, you may lock-in the new setting to prevent unauthorized temperature adjustments to your Swim Spa. To lock the set temperature:
Touch **UP** or **DOWN**, then touch **TIME**, **JETS** 1, and **UP** within 3 seconds. The ‘TL’ indicator will light when the set temperature is locked.

**Temperature Unlock**
To unlock the temperature, touch either **UP** or **DOWN**, then touch **TIME**, **JETS** 1, and **DOWN** within 3 seconds. The ‘TL’ indicator light will go out when the set temperature lock is cleared.

**Panel Lock**
To help prevent unauthorized use of your Swim Spa, the control system has a unique panel locking system. To lock the panel, touch **TIME**, **JETS** 1, then **UP** within 3 seconds. When locked, the ‘PL’ indicator light will be on. Except for the time button, all function settings will be frozen.

When the control panel lock is engaged, all automatic Swim Spa functions will operate normally but cannot be altered.

**Panel Unlock**
To unlock the panel, touch the **TIME**, **JETS** 1, and **DOWN** within 3 seconds. The ‘PL’ indicator light will go out when the panel lock is cleared.

**Light**
Touch the **LIGHT** pad to turn the digital lighting system on and off. The light will automatically turn off after 60 minutes of operation.

**Operating Modes**
Your Swim Spa comes with three primary operating modes.

**Standard Mode** maintains the water at the desired set temperature. Note that the last measured Swim Spa temperature displayed is current only when the pump has been running for at least 2 minutes. The pump will run for approximately 2 minutes every 30 minutes to test the water temperature. The ‘STANDARD’ icon will be displayed in the LCD window when this mode is selected.

**Economy Mode** heats the water to the desired set temperature **ONLY** during filter cycles. The ‘ECONOMY’ icon will be displayed in the LCD window when this mode is selected. While in the Economy mode, pressing the **JETS** 1 button will put the Swim Spa into the **Standard-In-Economy mode**, which operates the same as the Standard Mode, then reverts back to the Economy mode after 1 hour. The Swim Spa can be immediately reverted back into the Economy mode at any time by simply
Sleep Mode heats the Swim Spa to within 20°F (11°C) of the set temperature only during filter cycles. The ‘SLEEP’ icon will be displayed in the LCD window when this mode is selected.

Changing Modes
To change the operating mode, press the PROG button. The operating mode will be flashing on the LCD window. Press the DOWN button to cycle through to the desired mode, and then press the PROG button to confirm selection. Pressing UP or DOWN then JETS2 will put the Swim Spa into the Standby Mode. While in this mode, all Swim Spa functions are temporarily suspended to allow for filter changes or other routine maintenance tasks. Press any button to exit the Standby mode.

Note: Always put your Swim Spa into Standby Mode whenever cleaning or changing your filters.

Time and Filtration Cycles
The control system on your Swim Spa has been designed to function properly and safely at 100°F (38°C) after connecting the electrical wires and installing the proper grounds. To take full advantage of the unique capabilities of your new Swim Spa, you should first set the time and establish your filtration cycles.

Setting the Time
When the time of day has not been programmed, the ‘TIME’ icon will be flashing on the LCD window. To set the time of day, first press the TIME button then press the PROG button. The hour digit(s) will be flashing on the LCD window. Press the UP or DOWN button to advance the hours up or down to the desired set point. Press the PROG button to enter the time hour. The minute digits will now be flashing on the LCD window. Press the UP or DOWN button to advance the minutes up or down to the desired set point. Press the PROG button to enter the time minutes. At this point you can either proceed with setting the filtration cycles as described in the following ‘Changing Filter Cycle’ section, or press the TIME button to save the settings and exit the programming sequence.

Preset Filter Cycles
Once the time of day has been set, your Swim Spa will automatically filter the water for a 2-hour period every 12 hours. The first filter cycle comes preset to operate from 8:00AM to 10:00AM, and the second filter cycle comes preset to operate from 8:00PM to 10:00PM. The F1 indicator light will be lit whenever the Swim Spa is in the first filter cycle. The F2 indicator light will be lit whenever the Swim Spa is in the second filter cycle. During a filter cycle, the primary filtration pump will operate in low speed and can not be turned off unless the Swim Spa is put into the Standby mode. At the beginning of each filtration cycle, the other equipment in the Swim Spa will turn on for 30 seconds to purge all plumbing lines and ensure complete filtration.

Changing Filter Cycles
The control system allows you to adjust the start time and duration of each filter cycle independently to best suit your schedule. The amount of time needed to filter your Swim Spa will vary depending upon usage and ambient conditions, but a total filter time of...
at least four hours per day is recommended to properly clean and maintain the water.

To initiate the programming sequence to change filter cycles, press TIME, PROG, PROG, and PROG within 3 seconds. You should now see the 'PROGRAM,' 'FILTER 1,' and 'START TIME' icons on the LCD display window. The hour digit(s) will be flashing on the LCD window. Press the UP or DOWN button to advance the hours up or down to choose the Filter 1 start hour. Enter the hour by pressing the PROG button. The minute digits will now be flashing on the LCD window. Press the UP or DOWN button to advance the minutes up or down, in 5 minute increments, to choose the Filter 1 start time. Enter the minutes by pressing the PROG button.

You should now see the 'PROGRAM,' 'FILTER 1,' and 'END TIME' icons on the LCD display window. Adjust the hours and minutes for the end time of the first filter cycle as described above. After pressing the PROG button to enter the end time of the first filter cycle, you should now see the 'PROGRAM,' 'FILTER 2,' and 'START TIME' icons on the LCD display window. Adjust the hours and minutes for the start time of the second filter cycle as described above.

After pressing the PROG button to enter the start time of the second filter cycle, you should now see the 'PROGRAM,' 'FILTER 2,' and 'END TIME' icons on the LCD display window. Adjust the hours and minutes for the start time of the second filter cycle as described above. After pressing the PROG button to enter the end time of the second filter cycle, the new filtration times will be saved into the system and the LCD window will revert back to display the current water temperature.

Pressing the TIME button at any time during the above programming sequence will save the values entered up to that point and exit the programming sequence. To set the Swim Spa for continuous filtration, set the start and end times of the first filter cycle to the exact same time.

Clean-Up Cycle
After periods of heavy use, you can manually start a cleanup cycle by turning JETS 1 on in low speed. The pump will operate for 2 hours and then automatically turn off. The heater will also operate during this period if the controls are set in the Standard mode.

NOTE: Activating the low speed of Pump 1 for a clean up cycle will initiate filtration, but not ozone production, unless the Swim Spa enters a timed filter cycle during the 2 hour period.

Inversion Feature
The Swim Spa Series Control includes an Inversion feature that makes it easy to read the LCD from inside or outside the Swim Spa. To invert the LCD display, you will need to locate the general location to the right of the LIGHT button. First touch the UP or DOWN button, followed by the position located next to the LIGHT button. Repeat the sequence to reverse the inversion process.
This control operates only the spa zone section of the Swim Spa Duo-Pro model. This control supports the following features:

• 1 Dual-speed Jet Pump
• Underwater LED lighting
• Temperature Setting
• Customized Filtration Settings

The 167 Series Powerworks™ Controls offer you the ultimate in spa control. The backlit Liquid Crystal Display (LCD) displays current temperature, set water temperature, and operating mode settings. Each feature is actuated through the control panel pad. Touch the appropriate button to activate the desired function.

At start up, when power is supplied to the spa, the controls will operate properly and safely under the factory settings. The spa will be in Standard mode, have a temperature setting of 100°F (38°C), and a filtration cycle duration of 2 hours. To fully utilize the unique capabilities of the control system, it is important to know how to set the temperature, operate the pumps, operate the light, adjust the mode setting, and change the filtration cycle.
User's Pads
User's Pads are the buttons located on the topside control panel and are used to program various spa functions (i.e., turn on spa light, set temperature, etc.). The following table defines the buttons:

<table>
<thead>
<tr>
<th>Pad</th>
<th>Use</th>
</tr>
</thead>
</table>
| Temp | • Decrease temperature  
     | • Increase temperature  
     | • Switch modes  
     | • Change filter cycle durations |
| Light | • Turn internal spa light on or off  
     | • Switch modes |
| Jets | • Activate therapy pump  
     | • Set duration of filter cycles |

Temperature
The maximum set temperature is 104°F (40°C) and the minimum set temperature is 80°F (26°C). The current water temperature or, if the pump has not been running, two dashes, will show on the display. If dashes are displayed, you must first start the pump by pressing the PUMP 1 pad. Wait until the water temperature is displayed (approximately 2 minutes).

The set temperature of your spa may easily be increased or decreased at any time using the 'TEMP' pad. Press the 'TEMP' pad; the set temperature will be displayed in the LCD window. The next touch of 'TEMP' will change the set temperature either up or down 1°F (0.5°C). If you want to increase the temperature and the displayed indicates the temperature was increased by 1°F (0.5°C), continue to press the TEMP pad until the desired set temperature is reached.

If you want to decrease the set temperature and the LCD indicates that the temperature is increasing, STOP. Wait a few seconds until the actual temperature is displayed. Then press the TEMP pad again. The set temperature will be displayed. Press it again and the set temperature will decrease by 1°F (0.5°C). Continue pressing the TEMP pad until the desired set temperature is reached.

If the spa is set in Standard mode or in a filtration cycle, increasing the set temperature may result in activating the heater. Decreasing the set temperature will turn the heater off. When the heater is operating, the LED below the HEAT icon will be lit.

Pump 1
Touch the JETS 1 pad to activate the primary filtration pump. The sequence of the jet action is:

1 touch = Low therapy jets  
2 touches = High therapy jets  
3 touches = Off

The low speed operation of Pump 1 is timed to automatically turn off after two hours of operation. The high speed operation of Pump 1 is timed to automatically turn off after 30 minutes of operation.

NOTE: With the standard configuration, pump 1 will automatically operate in low speed whenever the spa calls for a filtration cycle or heat. When this automatic activation occurs, the low speed of Pump
1 cannot be turned off; however, all other control functions can be activated.

MODES OF OPERATION:
In the standard configuration your spa can be switched among Standard, Economy, and Sleep modes by touching the TEMP pad and then the LIGHT pad. If your spa is in the Standard mode,
The low speed Pump 1 and the heater will come on automatically to maintain the set temperature of the water. The pump will circulate for approximately two minutes several times throughout the day to sample water temperature. If your spa is set in the Economy mode,
The heater will operate ONLY during the filtration cycles. If your spa is set in the Sleep mode,
The spa will heat to within 20°F (11°C) of the set temperature only during filter cycles.

The selected mode will be displayed in the LCD window of the control panel.

Setting the Time and Filtration Cycles
You can decide when your filter cycles start and you also have choices on how long they run.

Preset Filter Cycles. The spa control system is designed with two filter cycles. The first filter cycle turns on 6 minutes after power is supplied to the spa. The second filter cycle turns on 12 hours later. Filter cycles are pre-set for a two hour duration.

Note: To properly clean and maintain spa, a total filter time of at least four hours per day is recommended. If an ozonator is installed, 6 hours is recommended.

Changing Filter Cycle Start Time
The start/stop times of the filter cycle begin 6 minutes after the spa set time is established. Set time is based on the time of day that the spa is powered up. Set time may only be changed by disconnecting power from the spa and re-connecting it at the desired start time. For example, if you want the filter cycle to begin at 9:00 PM, turn off the spa breaker and turn it back on at 8:54 PM (remember the 6 minute wait period). The cycle will begin at 9:00 PM and will repeat beginning at 9:00 AM. Each cycle will run for the prescribed number of hours.

Changing Filter Cycle Duration
The duration of a filter cycle can be set in hour increments of 2, 4, 6, 8, or continuous. For example, a 2 hour cycle will complete once every 12 hours for a total of 4 hours per day. The amount of time needed to filter your spa will depend on usage and ambient conditions. You will need to program your filter cycles based upon your personal use.
To change the duration of the filter cycles touch the ‘TEMP’ pad and then touch the ‘JETS’ pad. Touch the ‘TEMP’ pad to adjust the cycle duration to the desired setting. After each press, the duration of the cycle will be displayed in the LCD window as follows:
F2 2 Hours for each cycle, 4 hours per day
F4 4 Hours for each cycle, 8 hours per day
F6 6 Hours for each cycle, 12 hours per day
Swim Spa

F8  8 hours for each cycle, 16 hours per day
FC  Continuous filtration, 24 hours per day

To exit the filter-set procedure, touch ‘JETS’. The LCD window will display the current water temperature.
If a change is made to the duration while the spa is in a filtration cycle, it will take effect immediately. If the change is made outside a filtration cycle, it will take effect at the start of the next scheduled cycle.

NOTE: When power to the spa is denied (disconnect, power outage), the controls may revert to the default factory settings. Any adjustments to set temperature or filter cycle duration may need to be reprogrammed.

Light
Touch the ‘LIGHT’ pad to turn all lights on and off. The lights will automatically turn off after 4 hours of operation.

Automatic Time Outs
Your Vita Swim Spa is equipped with an automatic Time Out feature designed to protect both the equipment and the user. To reduce unnecessary use of the pumps and lights, the Time Out feature turns selected accessories off automatically.

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Mode</th>
<th>Shuts Off In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump 1 Low</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>Pump 1 High</td>
<td>15 minutes</td>
<td></td>
</tr>
<tr>
<td>DOL Light</td>
<td>4 hours</td>
<td></td>
</tr>
</tbody>
</table>
Digital Optic Lighting (DOL)
All Swim Spas are equipped with a Digital Optic Lighting System, or DOL. This system has different color settings (modes) to enhance your overall Swim Spa experience. Each time the DOL system is turned ON by pressing the LIGHT pad, it will begin a different color lighting sequence.

Accessing Different Light Modes
To change Modes, press the LIGHT button Off and On within a 5 second time period. The light will advance to the next color sequence mode. Continue until the desired color sequence mode is selected. The modes are:
1. Color-Wheel. This mode transitions the different colors.
2. White (All LEDs On).
3. Aqua (Green & Blue)
4. Purple (Red & Blue)
5. Blue
6. Amber (Red & Green)
7. Green
8. Red
9. Color Flash. This mode switches colors every few seconds.
10. Strobe. This mode flashes the LEDs on and off like a strobe light.

Ozone Operation (Optional)
Swim Spas may be equipped with an ozone water treatment system to assist with your water sanitizing needs. All factory installed ozonators are designed to work in conjunction with an injector system to maximize the sanitizing effects by fully mixing the ozone with the water flow. The ozonator will produce ozone only when the Swim Spa is in a timed filtration cycle. During the filter cycle, activating other functions will suspend ozone production for 30 minutes.

NOTE: Activating the low speed of Pump 1 for a clean up cycle will initiate filtration, but not ozone production, unless the Swim Spa enters a timed filter cycle during the 2 hour period.

UV Sanitizer
All Swim Spa models are equipped with a UV Sanitizer water system. The system is designed to incorporate all the benefits of the ozone system, plus an in-line, ultraviolet sanitizing chamber. Water from the primary filtration pump first passes through the stainless steel chamber of the sanitizing unit where it comes in contact with high frequency ultra-violet light. Upon exiting the sanitizing unit, the water flows through the ozone system before finally re-entering the spa.

As with the ozone system, the UV Sanitizer will operate only when the spa is in a timed filtration cycle. During the filter cycle, activating other functions suspend operation for 30 minutes.

Note: Activating the low speed of Pump 1 for a clean-up cycle will initiate filtration, but not the UV Sanitizing operation, unless the spa enters a timed filter cycle during the 2 hour period.

Note: To maintain optimum performance, it is recommended that the UV bulb inside the sanitizing chamber be replaced annually. Contact your local dealer for assistance with
changing the bulb.

Optional Entertainment System
Select models may be equipped with an audio system designed to provide the ultimate swim Spa entertainment experience. Power to the entertainment system is supplied at Swim Spa start-up so it is always ready for your enjoyment. Refer to the stereo Owner's Manual included in the Owner's Manual pack for instructions on programming and using the entertainment system. Read all instructions carefully before using the Entertainment System and save the instructions! The Entertainment System includes a stereo remote control that will operate the stereo by pointing the remote at the equipment enclosure located on the front skirt panel of the Swim Spa, or at the IR receiver on the inside lip of the Swim Spa. Refer to the stereo Owner's Manual for instructions.

NOTE: The wireless remote control is water resistant, NOT waterproof. Care should be taken when using from within the Swim Spa. Do not submerge the wireless remote control.

CAUTION: Risk of electrical shock. Replace components only with identical components. CAUTION: Risk of electrical shock. When the power supply connections or power supply cord(s) are damaged; if water is entering the electrical equipment compartment area; if the protective shields or barriers are showing signs of deterioration; or if there are signs of other potential damage to the unit, turn off the unit and refer servicing to a qualified service technician.

WARNING: Prevent Electrocution. Do not connect any auxiliary components (for example cable, additional speakers, headphones, additional audio/video components, etc.) to the system.

WARNING: These units are not provided with an outdoor antennae. When provided it should be installed in accordance with Article 810 of the National Electric Code, ANSI/NFPA 70.

WARNING: Prevent Electrocution. Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified personnel.

WARNING: Prevent Electrocution. This unit should be subjected to periodic routine maintenance (for example once every 3 months) to make sure the unit is operating properly.
EQUIPMENT SAFETY FEATURES

Automatic Time Outs
Your Swim Spa is equipped with an automatic Time Out feature designed to protect both the equipment and the user. For your safety and to reduce unnecessary use of the pumps and lights, the Time Out feature turns selected accessories off automatically, as follows:

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Mode</th>
<th>Shuts off in...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump 1</td>
<td>Low</td>
<td>4 hours</td>
</tr>
<tr>
<td>Pump 1</td>
<td>High</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Pump 2</td>
<td>Low</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Pump 2</td>
<td>High</td>
<td>15 minutes</td>
</tr>
<tr>
<td>DOL Light</td>
<td></td>
<td>1 hour</td>
</tr>
</tbody>
</table>

Common LCD Equipment Safety Messages and Trouble Shooting
The following table describes the most common messages, possible causes, and corrective actions you may need to take:

<table>
<thead>
<tr>
<th>If the LCD displays...</th>
<th>Indicates...</th>
<th>What happens...</th>
<th>Possible cause...</th>
<th>Corrective action...</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHH or HH</td>
<td>Overheat - one of the sensors has detected water temperature of 118°F+ (48°C+) inside the heater</td>
<td>Swim Spa heater will automatically shut down until temperature falls below 108°F+ (42°C+)</td>
<td>- Low speed pump operating for an extended period of time</td>
<td>- Make sure slice valves are open - Reprogram to ensure time cycles are not overlapping - Contact dealer if problem persists</td>
</tr>
<tr>
<td>OHS or OH</td>
<td>Overheat - One sensor has detected temperature of Swim Spa water entering heater to be 108°F+ (42°C+)</td>
<td>Swim Spa heater will automatically shut down until temperature falls below 108°F+ (42°C+)</td>
<td>- Low speed pump operating for an extended period of time</td>
<td>- Make sure slice valves are open - Reprogram to ensure time cycles are not overlapping - Contact dealer if problem persists</td>
</tr>
<tr>
<td>HFL or HL</td>
<td>Heater flow problem</td>
<td>Heater will shut down while Swim Spa continues to function normally</td>
<td>- Plugged filter - Low water</td>
<td>- Remove filter and clean - Add water - Contact dealer</td>
</tr>
</tbody>
</table>
If the LCD displays... | Indicates... | What happens... | Possible cause... | Corrective action...
---|---|---|---|---
**LF** | Water flow problem - Persistent flow problem | Heater will shut down while Swim Spa continues to function normally | - Plugged filter - Low water | - Remove filter and clean - Add water - Contact dealer

**dry** | No water to the heater | Swim Spa functions will shut down | - Slice valves closed - Block suction returns - Blocked filter/ skimmer | - Open valves - Remove blockage - Contact dealer

**d** | Lack of water to the heater | Heater will shut down, otherwise Swim Spa continues to function normally | - Slice valves closed - Block suction returns - Blocked filter/ skimmer | - Open valves - Remove blockage - Contact dealer

**SnA or SnB** | Heater sensor A or B not functioning | Swim Spa automatically deactivated | - Non-functioning sensor | - Contact dealer for replacement sensor

**SnS or Sn** | Heater sensors are out of balance | | | - Contact dealer

**Common LCD Messages**
The following table defines other messages you will frequently see on the LCD display:

<table>
<thead>
<tr>
<th>Message...</th>
<th>What it is...</th>
<th>What it means...</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pr</strong></td>
<td>Priming mode</td>
<td>Swim Spa is in normal Priming Mode operation</td>
</tr>
<tr>
<td><strong>SLP or SL</strong></td>
<td>Sleep mode</td>
<td>Swim Spa is in normal Sleep Mode operation</td>
</tr>
<tr>
<td><strong>Ecn or EC</strong></td>
<td>Economy mode</td>
<td>Swim Spa is in normal Economy Mode operation</td>
</tr>
<tr>
<td><strong>Std or St</strong></td>
<td>Standard mode</td>
<td>Swim Spa is in normal Standard Mode operation</td>
</tr>
<tr>
<td><strong>ICE or IC</strong></td>
<td>Freeze condition</td>
<td>Pump and Heater will come on to keep water above 45°F</td>
</tr>
<tr>
<td><strong>- -</strong></td>
<td>Water temperature</td>
<td>Current water temperature not measured</td>
</tr>
</tbody>
</table>
MAINTENANCE

Water Chemistry
Water chemistry is critical in a Swim Spa system. Chemicals are used to sanitize the water and control the pH balance. The combination of warm or high water temperature and small water volume means that the chemical balance must be watched carefully. It is recommended that you purchase a chemical start up kit, and the additional chemicals needed to maintain the proper/optimum chemical balance of your Swim Spa, from your dealer.

Sanitizing
Sanitizing the water destroys harmful organisms and keeps your Swim Spa healthy and safe. Three commonly used sanitizer or oxidizing agents are bromine, chlorine and ozone. Chlorine and bromine are chemicals that you add to the water. Ozone is a gas that is produced by an ozone generator and injected into the water. It is important that a residual of sanitizer remain in your water. High water temperature, aeration and use will increase the need for sanitizer. In addition to maintaining a residual, it is important to “shock” your Swim Spa water periodically and after heavy use. This addition of substantial amounts of sanitizer super-chlorinates the water and oxidizes non-filterable organic residue. Allow the sanitizer level to drop back to the residual amount before using. Also use your Clean Up Cycle (See pgs. 15 and 19) after heavy use for additional filtration. Tests should be done daily with your test kit to keep a chlorine or bromine residual of 3.0 to 5.0 ppm.

pH Level
pH is the balance of acidity and alkalinity in the water. Maintaining proper pH is important for the effectiveness of your sanitizer, for user comfort, and to prevent corrosion of the Swim Spa equipment.

Caution: Never mix two chemicals together.
Caution: Never store chemicals in the equipment compartment of your Swim Spa.
Caution: Do not use muriatic acid to balance pH as it will damage your Swim Spa surface and equipment.

Recommended Levels
pH: 7.2–7.6
Ideal 7.4–7.6
Chlorine/Bromine Residual: 3.5–5.0 ppm
Total Dissolved Solids: 100–200 ppm
Free Available Sanitizer: 3.0–5.0 ppm
Total Alkalinity: 80–100 ppm
Ideal for dichlor, trichlor, and bromine

NOTE: Make sure you use fresh test kit strips/chemicals. Test kits and test chemicals should be stored in a cool, dry location. Check the manufacturer’s instructions to determine shelf life and expiration date.

Water Maintenance With the Ozone and Ultra Violet Water Treatment Systems
Your Swim Spa comes complete with both the Ozonator system that includes the Powerworks™ Ozonator, and the UV Sanitiezer system that includes an Ultra Violet Sanitizer. These systems treat the water in your Swim Spa with a specialized ozone application and the extra sanitizing power of ultra-violet light,
which in conjunction with spa sanitizing and water balancing chemicals provides you with cleaner, healthier water, reduced chemical usage, and protects your skin from chemically induced irritation.

Sanitizing with Ozone
Swim Spa products vary in size, and in the frequency and conditions of use. For these reasons you will need to establish your sanitizing program based upon your own personal use. When using ozone, you should start by balancing your water chemistry as you normally would. A Swim Spa should be filtered a minimum of six hours per day during which time ozone will be mixed into the water. If your Swim Spa is heavily used, this run time should be increased.

The amount of a residual sanitizer (chlorine or bromine) that you maintain in the water will also vary depending on use. It is recommended that you maintain a residual of 3.0–5.0 ppm. Periodically, and after periods of heavy use, it is necessary to “shock” your Swim Spa with large amounts of sanitizer.

NOTE: Extra filtration can be provided by manually starting a clean-up cycle. Turn Pump 1 on in low speed. The pump will operate for 4 hours and then automatically turn off. The heater, ozone generator and UV system will also operate during this period if the controls are set in Standard mode.

Specialty Chemicals
While ozone may significantly reduce the usage of specialty chemicals (chlorine and bromine), it is not a substitute for these chemicals. All chemicals should continue to be monitored, especially during periods of heavy usage and when changing or replenishing the Swim Spa water.

Draining your Swim Spa

NOTE: Always turn the circuit breaker off when you drain your Swim Spa. Do not turn the spa heater back on until you have full flow coming from the jets for several minutes. High concentrations of impurities caused by water evaporation, body oils, perfumes, and other contaminants may accumulate in the Swim Spa and cannot be filtered out.

NOTE: Consequently, it is advisable to drain your Swim Spa and refill it with fresh water every six to eight weeks, or more often depending on the amount of use.

All Swim Spa products are equipped with multiple internal drains. These drains are used to remove water from internal plumbing, when Winterizing your Swim Spa (See pg. 32), or if the water is severely contaminated.

NOTE: Use a standard garden hose to direct the water to an appropriate disposal area.

All internal drain hose(s) are located behind the front access panel. Remove the access panel screws and the access panel. Locate the drain hose(s). For each hose drain valve, remove the cap, attach the garden hose, and turn the valve handles, located on the drain valve body, 90° counter-clockwise. Water will begin to flow. When all water has been evacuated, turn the valve handle clockwise until it stops. Remove garden hose and replace the cap. Repeat for each internal drain hose.
NOTE: Do NOT attempt to use the Swim Spa pump to drain the Swim Spa.

NOTE: Close and replace caps on all drains prior to refilling the Swim Spa.

NOTE: When refilling the Swim Spa you may need to bleed air from the system. Refer to Priming Your Spa, pg. 15, for instructions.

Filter Maintenance

NOTE: It is not necessary to drain the Swim Spa in order to clean the filters.

The removable filter cartridges are located in the filter canisters inside the skimmer. The filters should be inspected/cleaned monthly during normal use and more often when spa use is heavy.

Keep the filter cartridges clean! Clean the filter cartridges at least once every 30 days. A clogged filter decreases performance and degrades water quality.

To clean the filter cartridge:
1. Turn the pump off.
2. Remove skimmer lid on top of Swim Spa.
3. Remove strainer basket
4. Remove filter cartridge from the filter canister by grasping the top and lifting upwards.
5. Soak filter in a commercial filter cleaner/degreaser, available from your MAAX® Spa dealer, per manufacturer’s instructions. Rinse filter cartridge with a hose. Replace with new cartridge, if needed.
6. Place filter cartridge back into filter canister.
7. Replace strainer basket and skimmer lid.
8. Turn the pump ON.

Replacing the filter cartridge semi-annually is recommended to maintain optimum performance. Filter maintenance depends on usage.

Winterizing

In cold climates where freezing temperatures occur, special care is required to prevent the possibility of damage to the Swim Spa and associated equipment due to freezing. If you plan on using your Swim Spa during cold months, be sure your pump and heater are in good working order. The Swim Spa has been insulated to provide efficient operation in cold weather areas.

NOTE: If you elect not to drain your Swim Spa and the temperature is going to be below freezing for extended periods of time, it is best to operate the heater at the maximum high temperature 104°F (40°C), especially if there is a power outage threat. This will help reduce the likelihood of the water freezing if you have a power failure.

If you do not intend to use your Swim Spa during the winter months and there is danger of freezing, use the following steps to winterise your Swim Spa:
1. Turn off all electrical power to the Swim Spa.
2. Drain Swim Spa and hoses of all water using the directions for Draining Your Swim Spa (pg. 31). Open all unions, and remove drain plugs from bottom of pumps. If you cannot draw off all of the water (especially from hoses), add Recreational Vehicle antifreeze to the remaining water through the bottom of the skimmer and jets. If antifreeze is used, it must be an inhibitor Propylene Glycol such as Dow Frost™, available through Dow Chemical® distributors.
NOTE: Prior to refilling the Swim Spa, drain all antifreeze from Swim Spa and hoses using the instructions for Draining Your Swim Spa (Pg. 31). Carefully monitor chemicals until all antifreeze residue has been eliminated.

3. The filter should be drained, and the cartridge removed and cleaned.
4. Check to see that there is no water in the heater element chamber.
5. Clean your Swim Spa as directed in the following two sections on this page.
6. Cover your Swim Spa with a water-shedding, impenetrable cover.
7. For further information on blowing out the plumbing lines and winterising procedures, contact your local dealer.

Swim Spa Cabinet Care
The Swim Spa series cabinets are made of Duramaax™, a high quality alternative to wood that is virtually maintenance free, requiring no staining, sealing, or waxing.

Never use abrasive cleaners.

To clean the Swim Spa cabinet, rinse dirt and dust regularly with clear water. To remove stubborn dirt, grime, and mild discoloration, wash with a mild detergent and warm water.

Swim Spa Surface Care and Cleaning
Your Swim Spa shell surface is made of acrylic. A minimum amount of care and cleaning will keep it looking new for years.

Use a spa cleaner for residue and lime buildup at the water level. It may be necessary to lower the water level 3-4 inches before cleaning to avoid polluting the Swim Spa. Cleaner can be applied to the acrylic surface with a soft cloth and wiped clean. Use a non-abrasive mild dish washing detergent such as Ivory® Liquid. Rinse well and dry with a clean cloth.

NOTE: Do not allow the acrylic surface to come in contact with products such as acetone (nail polish remover), nail polish, dry cleaning solution, lacquer thinners, gasoline, pine oil, orange oil, citrus based cleaners, etc.

Remove dust and dry dirt with a soft, damp cloth. Clean grease, oil, paint and ink stains with isopropyl (rubbing) alcohol diluted with water. Avoid using razor blades or other sharp instruments that might scratch the surface.

Protect Swim Spa finish - always keep cover on the Swim Spa when not in use.

Underwater LED Light Cluster
The underwater LED light assemblies are serviceable from the inside the Swim Spa cabinet. Remove the side panel and insulation closest to the light; locate the bracket that holds the LED assembly. Turn the LED Holder 90 degrees counter-clockwise; remove from bracket. Pull bulb straight out and replace. Insert LED holder back into bracket and turn 90 degrees clock-wise to secure.
## COMMON WATER PROBLEMS

<table>
<thead>
<tr>
<th>Problem</th>
<th>Usual Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cloudy Water</strong></td>
<td>- Inadequate filtration/ dirty filter</td>
<td>- Check to make sure the filter is running properly; clean filter with a filter cleaner or degreaser</td>
</tr>
<tr>
<td></td>
<td>- Excessive oils/organic matter</td>
<td>- Shock the Swim Spa with a chlorine or bromine sanitizer, or other shock treatment product</td>
</tr>
<tr>
<td></td>
<td>- Improper sanitation/ bacteria</td>
<td>- Increase sanitizer level to balance water and shock if needed</td>
</tr>
<tr>
<td></td>
<td>- High pH and/or high alkalinity</td>
<td>- Adjust pH; add appropriate sodium bisulfate product</td>
</tr>
<tr>
<td></td>
<td>- Suspended particles/ organic matter</td>
<td>- Use clarifier</td>
</tr>
<tr>
<td></td>
<td>- High total dissolved solids</td>
<td>- Depending on the severity, drain the Swim Spa to half and refill, or drain completely, clean and refill</td>
</tr>
<tr>
<td><strong>Water Odour</strong></td>
<td>- Excessive organics or chloramines; insufficient free available sanitizer</td>
<td>- Shock with a chlorine or bromine sanitizer, or other shock treatment product</td>
</tr>
<tr>
<td></td>
<td>- Improper sanitation</td>
<td>- Make sure that filter is operating properly; clean with filter cleaner</td>
</tr>
<tr>
<td></td>
<td>- Inadequate filtration</td>
<td>- Raise pH with sodium bisulfate product. If metals are present, add chelating agent.</td>
</tr>
<tr>
<td></td>
<td>- Low pH</td>
<td></td>
</tr>
<tr>
<td><strong>Chlorine Odour</strong></td>
<td>- Too many chloramines/ insufficient free available chlorine</td>
<td>- Shock with a chlorine or bromine sanitizer, or other shock treatment product</td>
</tr>
<tr>
<td></td>
<td>- Low pH</td>
<td>- Raise pH with sodium bisulfate product. If metals are present, add chelating agent</td>
</tr>
<tr>
<td><strong>Bromine Odour/ Yellow Water</strong></td>
<td>- Low pH</td>
<td>- Adjust pH; raise pH with sodium bicarbonate poduct</td>
</tr>
</tbody>
</table>

*NOTE: Your Swim Spa utilizes an ozone generator. Please consult your dealer before using polymer based clarifiers.*
<table>
<thead>
<tr>
<th>Problem</th>
<th>Usual Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Musty Odor</td>
<td>- Bacterial or algae growth</td>
<td>- Shock with a chlorine or bromine sanitizer, or other shock treatment product. If problem is visible, drain, clean, refill and balance water</td>
</tr>
<tr>
<td>Foaming/Scum Ring Around Waterline of Swim Spa</td>
<td>- Build up of body oils, lotion and chemicals resulting from soap or detergent</td>
<td>- Skim foam off using your leaf net or drain, clean, refill and balance water</td>
</tr>
<tr>
<td>Algae</td>
<td>- pH Imbalance</td>
<td>- Adjust pH</td>
</tr>
<tr>
<td></td>
<td>- Low free chlorine or bromine</td>
<td>- Shock with a chlorine or bromine sanitizer, or other shock treatment product</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>- Low pH</td>
<td>- Raise pH with sodium bicarbonate product</td>
</tr>
<tr>
<td></td>
<td>- Insufficient free available chlorine</td>
<td>- Shock with a chlorine sanitizer/shock or other shock treatment product</td>
</tr>
<tr>
<td>Skin Irritation/Rash</td>
<td>- Unsanitary/polluted water</td>
<td>- Keep recommended sanitizer residual at all times; superchlorinate or use a non-chlorine shock treatment</td>
</tr>
<tr>
<td></td>
<td>- Being in water too long</td>
<td>- Soak for smaller intervals, such as 15 minutes</td>
</tr>
<tr>
<td></td>
<td>- Chemicals not balanced, excessive ozone</td>
<td>- Correct chemical imbalance</td>
</tr>
<tr>
<td>Scale</td>
<td>- Too much calcium dissolved in water</td>
<td>- Add a scale control product.</td>
</tr>
<tr>
<td></td>
<td>- pH and total alkalinity too high</td>
<td>- Adjust total alkalinity and pH levels by adding the appropriate sodium bisulfate product</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- For concentrated scale deposits: drain Swim Spa, scrub scale off, clean, refill and balance the water</td>
</tr>
<tr>
<td>Erratic pH Test Results/Unusual pH Test Color</td>
<td>- Sanitizer level too high</td>
<td>- Test the pH level when the sanitizer level is below 5 ppm:</td>
</tr>
<tr>
<td></td>
<td>- Old pH indicator dye</td>
<td>- Replace the pH indicator dye</td>
</tr>
</tbody>
</table>

Swim Spa
### Problem: Sanitizer Dissipating Too Rapidly

<table>
<thead>
<tr>
<th>Usual Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Excessive organics in water</td>
<td>- Increase shock dosage; add sanitizer; shower before entering Swim Spa</td>
</tr>
<tr>
<td>- Temperature too high</td>
<td>- Reduce temperature</td>
</tr>
<tr>
<td>- Low pH</td>
<td>- Raise pH with sodium bicarbonate product</td>
</tr>
<tr>
<td>- Low pH corrosion of metal fixtures</td>
<td>- Use chelating agent if metals are present;</td>
</tr>
<tr>
<td>- Low calcium hardness</td>
<td>* Keep proper pH level (7.2 to 7.6).</td>
</tr>
<tr>
<td>- Low total alkalinity</td>
<td>* Maintain minimum 150-200 ppm calcium hardness</td>
</tr>
<tr>
<td></td>
<td>* Maintain proper alkalinity for type of sanitizer used.</td>
</tr>
</tbody>
</table>

**NOTE:** If your source water has a high metal or mineral content, a specialty chemical should be used to avoid staining or accumulation of deposits. These guidelines cover the most common water problems when operating a Swim Spa with ozone. Contact your dealer for further information regarding chemical control issues.
# COMMON HARDWARE PROBLEMS

<table>
<thead>
<tr>
<th>Problem</th>
<th>Usual Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>System not operating</td>
<td>- House circuit breaker tripped or in OFF position</td>
<td>- Reset circuit breaker in panel box</td>
</tr>
<tr>
<td>Heater not operating</td>
<td>- Water level too low</td>
<td>- Add water to fill line on skimmer</td>
</tr>
<tr>
<td></td>
<td>- Heater mode not selected</td>
<td>- Refer to temperature/heater functioning. See Control instructions pg. 17</td>
</tr>
<tr>
<td></td>
<td>- No power to heater</td>
<td>- Check house circuit breaker</td>
</tr>
<tr>
<td></td>
<td>- Heater not operating/defective</td>
<td>- Contact dealer</td>
</tr>
<tr>
<td>Water not clean</td>
<td>- Clogged or blocked suction or skimmer</td>
<td>- Clean suction grate and skimmer basket</td>
</tr>
<tr>
<td></td>
<td>- Dirty or clogged filter</td>
<td>- Clean or replace filter elements</td>
</tr>
<tr>
<td></td>
<td>- Poor water chemistry</td>
<td>- See Maintenance section pg. 30</td>
</tr>
<tr>
<td></td>
<td>- Insufficient filtering time</td>
<td>- Program longer filtration cycle, pg. 20 or pg. 25 for spa side</td>
</tr>
<tr>
<td></td>
<td>- Improper maintenance</td>
<td>- Contact dealer</td>
</tr>
<tr>
<td></td>
<td>- High content of solids in water</td>
<td>- Use clarifier or drain, clean and refill</td>
</tr>
<tr>
<td>Abnormal water usage</td>
<td>- Excessive evaporation and/or splashing</td>
<td>- Use Swim Spa cover and refill as necessary</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Revise your swimming stroke/exercise regiment to include less splash</td>
</tr>
<tr>
<td>Overheating</td>
<td>- High ambient temperature</td>
<td>- Contact dealer</td>
</tr>
<tr>
<td>Low water flow from jets</td>
<td>- Operating in FILTER mode low speed</td>
<td>- Select hi-speed jets</td>
</tr>
<tr>
<td></td>
<td>- Clogged or blocked suction or skimmer</td>
<td>- Clean suction grate and skimmer basket</td>
</tr>
<tr>
<td></td>
<td>- Dirty filter</td>
<td>- Clean or replace filter</td>
</tr>
<tr>
<td></td>
<td>- Jets in OFF position</td>
<td>- Open jets; Turn outer ring to left</td>
</tr>
<tr>
<td></td>
<td>- Slice valves closed</td>
<td>- Open slice valves; ensure valve safety clips are attached</td>
</tr>
<tr>
<td>Problem</td>
<td>Usual Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Noisy pump and motor</td>
<td>- Clogged or blocked suction or skimmer&lt;br&gt;- Low water level&lt;br&gt;- Damaged or worn motor bearings</td>
<td>- Clean suction grate and skimmer basket&lt;br&gt;- Add water to normal water level&lt;br&gt;- Contact dealer</td>
</tr>
<tr>
<td>No water flow from jets</td>
<td>- Pump not primed&lt;br&gt;- Adjustable jets turned off&lt;br&gt;- House circuit breaker tripped, no power to system&lt;br&gt;- Faulty pump or motor&lt;br&gt;- Pump surges&lt;br&gt;- Slice valves closed</td>
<td>- See Priming section, pg. 16&lt;br&gt;- Turn on jets&lt;br&gt;- Reset circuit breaker at house panel&lt;br&gt;- Contact dealer&lt;br&gt;- Check water level&lt;br&gt;- Open slice valves; ensure valve safety clips are attached</td>
</tr>
<tr>
<td>Water leakage from under Swim Spa</td>
<td>- Check unions &amp; drain hoses&lt;br&gt;- Check for water seepage around jets or at glued fitting</td>
<td>- Close or tighten as necessary&lt;br&gt;- Contact dealer</td>
</tr>
<tr>
<td>No air flow from jets</td>
<td>- Air control not open&lt;br&gt;- Jet nozzle not seated properly&lt;br&gt;- Jet nozzle missing</td>
<td>- Open control&lt;br&gt;- Check jet nozzles&lt;br&gt;- Inspect jets and replace as necessary</td>
</tr>
<tr>
<td>Motor will not operate</td>
<td>- House circuit breaker tripped or in OFF position&lt;br&gt;- Improper or defective wiring or electrical supply&lt;br&gt;- Pump thermal overload switch tripped</td>
<td>- Reset house circuit breaker in panel box&lt;br&gt;- Contact dealer&lt;br&gt;- Auto reset after pump motor has cooled. Contact dealer if pump continues to cycle</td>
</tr>
<tr>
<td>Black powder film around water line</td>
<td>- Wearing in of turbo/blower brushes</td>
<td>- Will disappear after use</td>
</tr>
<tr>
<td>Swim Spa will not shut off</td>
<td>- Swim Spa is in heating cycle&lt;br&gt;- Swim Spa is in filter cycle&lt;br&gt;- Swim Spa is in standard mode</td>
<td>- Check ‘Set Temperature’ in standard mode&lt;br&gt;- Normal. No need to change&lt;br&gt;- Check mode setting</td>
</tr>
</tbody>
</table>
SWIM SPA SOAKING GUIDELINES

1. Persons with heart disease, diabetes, blood pressure or circulatory abnormalities, a serious illness, or pregnant women should not enter a Swim Spa without prior consultation with their doctor.

2. People with skin, ear; genital or other body infections, open sores, or wounds should not use the Swim Spa because of the possibility of spreading infection.

3. Before entering, look at the water in your Swim Spa. If there is cloudiness, foaming, or a strong chlorine smell is present, the water needs treatment. Properly maintained water will greatly reduce potential skin rash (pseudomonas). Ask your Authorized Dealer for guidance.

4. Shower with soap and water before and after using the Swim Spa. Showering before use removes many common skin bacteria, perspiration, lotions, deodorants, creams, etc. that may reduce the effectiveness of the sanitizer and lessen the ability of the filter to work efficiently. Showering after use will help reduce skin irritation that may result from contact with sanitizing chemicals.

5. Enter the Swim Spa slowly and cautiously. Be careful of your footing, and allow your body to gradually adjust to the water temperature. Exit slowly to accommodate relaxed leg muscles and possible light-headedness.

6. Soaking for too long may cause some users to feel nauseous, dizzy, or light-headed. If you wish to soak in high temperature water 104°F (40°C), leave the Swim Spa after 15 minutes, shower, cool down and then return for another brief stay. In lower temperatures (e.g. 98.6°F (37.5°C) - normal body temperature) most people can comfortably and safely soak for longer periods at one sitting.

Never use the Swim Spa to swim, jog or exercise in hot water. Recommended water temperature for swimming and exercising is 80°F-86°F (27°C - 30°C). If you have any questions about what is right for you, your family, or other guests, consult your doctor.

7. Always be sure to check the water temperature before entering, and while using the Swim Spa.

8. Never use the Swim Spa while under the influence of alcohol or drugs.

9. Consult your doctor about potential harmful effects of using drugs or medications while swimming, jogging, and exercising or hot water soaking in your Swim Spa.

10. Never use the Swim Spa when you are alone. The first rule of Aquatic Exercise is Safety. Always be sure that any Swim Spa user is under the supervision of a responsible adult who is capable of rescuing the Swim Spa user in case of an emergency.

11. Never allow children or elderly adults to use the Swim Spa unsupervised.
12. Never allow anyone to jump or dive into the Swim Spa. The water depth will not accommodate jumping or diving, and serious injury or possible death can result from these dangerous actions.

13. Consult your physician before beginning any new exercise regimen, including swimming, aqua-jogging, aquatic exercise and aquatic stretching.

14. When using the optional aquatic resistance exercise equipment take care to always wear shatterproof goggles to protect your eyes in case you misconnect the attachment device or should a band slip or break.

15. Never leave exercise equipment or any other objects in Swim Spa when you are finished with them. They may create a trip or injury hazard if they are unseen below the surface of the water.

16. Closely monitor your physical condition when exercising in the Swim Spa. A general rule is that you should be able to talk normally while exercising. If you find it difficult to speak or think clearly during exercise, you should exit the Swim Spa until you are back to normal heart rate and can breathe freely.

17. Display all safety signs and rules located in the Owner Package for Swim Spa. Make sure that all users and guests understand the rules and know how to use the Swim Spa before allowing them to use it.

18. Swimming against the jets is similar to using a treadmill. You will want to pace your swim strokes and kicks to maintain your place in the water for an optimal workout. If you like to sprint during your workout, you can use the optional swim tether to give you maximum resistance when sprinting.

19. Always wear waterproof shoes when Aqua-Jogging for the best slip resistance and to protect your feet.

20. The bottom of the Swim Spa has contours built in for added structural integrity. Make yourself aware of those contours so that you know where they are as you exercise.

21. Always use swim-goggles when using your Swim Spa. Swim-goggles make it easier to see the bottom of the Swim Spa when swimming so that you can fix your position in the swim-lane. Swim-goggles also protect your eyes from continuous splashing during exercise. Whenever using resistance exercise bands or swim-tether, we recommend that you use shatter-proof swim-goggles.

22. Whenever using the optional resistance exercise bands, be sure that they are positively clipped into the attachment hardware on the Swim Spa. After attaching, give the cords a tug to ensure that they are latched. Always remove them from Swim Spa when you leave the Swim Spa. Keep resistance bands out of the reach of children.

23. Whenever using the optional swim-tether, be sure that it is positively seated in the pole retainer. If it is not properly installed, it can slip out of place and enter the Swim Spa causing possible injury.

24. Be safe, be healthy, have fun!
A disconnecting means must be installed within sight from inside walls of the pool, spa, or hot tub. Use copper connectors only. Employ insulated block. Use connections sized on the basis of 60°C ambient but rated nominal of 75°C.

Total output amp draw not to exceed max input rating of spa.

Use earth ground connections as indicated inside the system enclosure.
167 SERIES SYSTEM WIRING DIAGRAM

Wiring Diagram For Spa Model Duo-Pro (240V), Spa Side Only

BALBOA water group

167 – PN 54293-02
01/07/10

CONNECT ONLY TO CIRCUITS PROTECTED BY A CLASS A GFCI.
A DISCONNECTING MEANS MUST BE INSTALLED WITHIN SIGHT FROM
THE EQUIPMENT AND AT LEAST 5 FEET (1.52 M) FROM THE
INSIDE WALLS OF THE POOL, SPA, OR HOT TUB.

USE COPPER CONDUCTORS ONLY.
EMPLOY UNIQUEMENT
DES CONDUCTEURS DE CUIVRE.
#6 AWG MIN. WIRE= 90°
FOR SUPPLY CONNECTIONS,
USE CONDUCTORS SIZED ON THE
BASIS OF 60°C AMPACITY BUT
RATED MINIMUM OF 90°C.
TORQUE RANGE FOR
MAIN TERMINAL BLOCK:
27-30 IN. LBS.

ALL UNUSED SWITCHES SHOULD BE OFF

AS MANUFACTURED

LOCATION DEVICE VOLTS AMPS FROM TO
J35 2 SPD P1 240V 10A W1 W4 RED AC
J37/38 1 SPD P2 240V 10A W1 W4 RED AC
J36 A V 120V 4A W4 WHT AC
J39 OZONE 120V 5A W4 WHT AC
J40 LIGHT 120V 10W WHT AC
HTR HEATER 240V 5.5kW HTR TERM HTR 1/2

TOTAL OUTPUT AMP DRAW NOT TO EXCEED MAX INPUT RATING OF SPA
*ALL DEVICES LABELED 240V WILL RUN AT 120V WHEN HEATER IS CONVERTED TO 120V
CIRC PUMP IS AN OPTIONAL DEVICE. ADJUST DIP SWITCHES AS & AS ACCORDINGLY.

USE EARTH GROUND CONNECTIONS AS INDICATED INSIDE THE SYSTEM ENCLOSURE
SAFETY SIGN

The safety sign enclosed with your Owner’s Manual should be permanently installed where visible to all users of the spa. This sign is adhesive backed and includes four screws for mounting the sign on rough surfaces. It is very important that you, as a spa owner, review the important safety instructions and warnings before you operate your spa. It is equally important that you instruct all users, even occasional ones, as to the warnings associated with spa use.
You may obtain additional signs by contacting:

USA: MAAX Spas Industries Corp.
Customer Service
25605 South Arizona Avenue
Chandler, Arizona 85248
www.maaxspas.com

LIMITED WARRANTY SUMMARY

Please refer to the Warranty Card included with your product for complete warranty information. In order to receive prompt warranty service, you must return your warranty card, completed with model and serial number, to your dealer immediately upon completion of the spa installation. MAAX Spas Industries Corp. provides a limited warranty to our customers. It applies to the spa structure, surface, plumbing, pumps, heater, blower, and controls. The limited warranty does not cover damage resulting from improper maintenance, improper installation, misuse, abuse, neglect, accident, fire, normal wear and tear, or improper water maintenance. Unauthorized modifications of the spa may void the warranty. Replacement cost associated with transportation, removal and reinstallation are the sole responsibility of the spa owner. This manual refers to Vita Swim Spa models. MAAX Spas Industries Corp., reserves the right to make changes in design or material of its products at any time without incurring liability. This limited warranty applies to the first retail purchaser and terminates upon any transfer of ownership.
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Disclaimer:
The information in this manual is accurate to the best of MAAX Spas Industries Corporations’ knowledge. However, MAAX Spas Industries Corporation assumes no responsibility for errors or omissions. Nor is any liability assumed for damages resulting from use of the information contained herein. Specifications subject to change without notice. Spas shown at percentage of actual size.

Congratulations on your purchase of an Vita Swim Spa from MAAX® Spas. Your Owner’s Manual provides installation, operation and maintenance instructions. Please review it and keep it for future references.

Save These Instructions
Owner's Record Information

Date Purchased : 

Purchased From : 

Phone Number : 

Installed By : 

Serial Number :  
Model : 

Swim Spa