

2023 - 2025 OWNERS MANUAL

ALERT

Your new spa's GFCI will trip.

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

Spas that come with MXBP20 and MXBP100 control systems come with special instructions for the installer/electrician. If they have not already advised you on what to do or expect from 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 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. If a GFCI does not trip properly, your spa's display will show an error message.

GFCI breakers are important safety devices required by code for your hot tub. For more information, refer to the MXBP20 and MXBP100 sections of this manual or your local dealer.

IMPORTANT SAFETY WARNINGS

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, Installation Guide and on the spa/swim spa itself may result in severe personal injury, including death, as well as property damage.

WARNING:

This product shall be installed in accordance with local codes.

WARNING:

This spa or swim spa shall be secured to protect against unauthorized access per local codes.

WARNING:

This spa or swim spa water shall be tested and treated in accordance with local codes.

WARNING:

Children should not use spas or hot tubs without adult supervision.

WARNING:

Do not use spas or hot tubs unless all suction guards are installed to prevent body and hair entrapment.

WARNING:

Pregnant, or possibly pregnant, women should consult a physician before using a spa or hot tub.

WARNING:

People with infectious diseases should not use a spa or hot tub.

WARNING:

To avoid injury, exercise care when entering or exiting the spa or hot tub.

WARNING:

Do not use drugs or alcohol before or during the use of a spa or hot tub to avoid unconsciousness and possible drowning.

WARNING:

People using medications and/or having an adverse medical history should consult a physician before using a spa or hot tub.

WARNING:

Water temperature in excess of 100°F (38°C) may be injurious to your health.

WARNING:

Before entering the spa or hot tub, measure the water temperature with an accurate thermometer.

WARNING:

Do not use a spa or hot tub immediately following strenuous exercise.

WARNING:

Prolonged immersion in a spa or hot tub may be injurious to your health.

WARNING:

Maintain water chemistry in accordance with manufacturer's instruction.

WARNING:

Do not permit electric appliances (such as a light, telephone, radio or television) within 5 feet (1.5m) of the spa or hot tub.

WARNING:

The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

TABLE OF CONTENTS

IMPORTANT SAFETY WARNINGS 2	More Common Buttons	
TABLE OF CONTENTS 3	Settings Screen	30
IMPORTANT SAFETY INSTRUCTIONS. 5	Settings Screen Continued	31
DOS AND DON'TS OF SPA CARE7	Fill It Up!	32
Hyperthermia7	Fill It Up! CONTINUED	33
SPA INSTALLATION8	Spa Behavior	33
European Spas8	Spa Behavior - Continued	34
SPA Site and Positioning8	Time of Day	34
SWIM SPA Site and Positioning8	Adjusting Filtration	35
Outdoor Installation9	Restricting Operation	36
Indoor Installation9	Locking and Unlocking	36
Thermal Creep10	Utilities Screen	37
SPA SYSTEM COMPONENTS11	Additional Settings	38
SPA COMPONENTS12	Additional Settings - Continued	39
SWIM SPA SYSTEM COMPONENTS 13	GFCI Test Feature	40
SWIM SPA COMPONENTS14	General Messages	42
JETS AND AIR CONTROLS15	Reminder Messages	43
Jets15	TP740 CONTROL PANEL	4 4
Cleaning or Replacing Jets15	Operating Instructions	44
Cleaning Jets15	Icon Quick Guide	45
Air Controls16	Filling Your Spa	46
ELECTRICAL INFORMATION 17	Preparation and Filling	46
Important Safety Instructions17	Priming Mode	46
GFCI17	Exiting Priming Mode	46
Residual Current Device17	Spa Behavior	46
Installation Options17	Pumps	46
VOLTAGE/AMPERAGE CHART:20	Menu Navigation	47
START UP PROCEDURES23	Back Button	47
Priming Your Spa23	On/Off Switches	47
SMARTTOUCH 2 WATERPROOF	Menu Items Without An Arrow or	
DISPLAY24	ON/OFF Switch	47
Main screen24	Select, Save, Cancel	47
ICON Quick Guide25	Navigate Main Menu	48
Navigation25	Navigate Settings Menu	48
Messages25	Aqua Glo	48
Set Temperature Screen26	Invert Screen	48
Spa Screen26	Press And Hold	48
Common Buttons27	Set Time of Day	49
	•	

Change/View Set Temperature5	50
Run Spa Devices5	51
Set Filter Cycle Time5	52
Set Units5	53
Select Language5	53
Lock the Panel And/Or Settings5	54
402 CONTROL PANEL5	55
Operating Instructions5	55
User's Pads5	56
Temperature controls	
Jets5	57
Modes of Operation5	
Setting Time and Filtration Cycles5	57
TP500 CONTROL PANEL5	59
Main Menus	
Filling Your Spa6	50
Spa Behavior6	50
Temperature & Temp Range6	51
Mode - Rest and Ready6	52
Show & Set Time of Day6	52
Flip (Invert Display)6	
Restricting Operation6	53
Unlocking6	53
Adjusting Filtration6	
GFCI Test Feature6	
TP600 CONTROL PANEL6	55
Button Functions6	55
The Main Screen6	55
Filling Your Spa6	56
Spa Behavior6	56
Temperature & Temp Range6	
Mode - Rest and Ready6	58
Show & Set Time of Day6	58
Flip (Invert Display)6	59
Restricting Operation6	
Unlocking6	59
Adjusting Filtration6	59
GFCI Test Feature	50

BLUETOOTH CONNECTION BASICS	. 70
WiFi CONNECTIVITY	.71
SPA SOAKING & EXERCISE GUIDELINES	72
EQUIPMENT SAFETY FEATURES	.75
Automatic Time Outs	75
Common LCD Messages	75
MAINTENANCE	77
Water Chemistry	77
Sanitizing	
pH Level	
Sanitizing with Ozone	78
Specialty Chemicals	78
Draining your Spa	78
Filter Maintenance	79
Winterizing	79
Spa Cabinet Care	80
Spa Surface Care and Cleaning	81
Light Bulbs	81
Spa Status Indicator Light	81
COMMON WATER PROBLEMS	.82
COMMON HARDWARE PROBLEMS	. 85
SAFETY SIGN	.87
LIMITED WARRANTY SUMMARY	.87
COPYRIGHTS AND TRADEMARKS	. 88
NOTES	89

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

- WARNING To reduce the risk of injury, do not allow children to use spa unless they are closely supervised at all times.
- 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.
- (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.
- 4. 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.
- 5. DANGER Risk of injury. The suction fittings in this spa are sized to match the specific water flow created by the pump. If you must replace the suction fittings or the pump, be sure 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.
- 6. **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 (1.5m) 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.
- 7. **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 the spa.
- 8. **WARNING** To reduce the risk of injury:
 - a. The water in a spa should never exceed 104°F (40°C).. Temperatures be tween 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult. Lower 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 100°F (38°C).
 - c. Before entering spa, measure the water temperature as water temperature regulating devices vary.
 - d. The use of alcohol, drugs, or medication 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.

f. Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

SAVE ALL 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 final spa electrical connections.

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

TO AVOID RISK OF ELECTRICAL SHOCK:

- 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 60417, Symbol 5019.
- 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.

Never use aluminum wire.

- All field-installed metal components such as rails, ladders, drains or similar hard ware located within 5 ft (1.5m). of the spa or hot tub shall be bonded to the equipment grounding bus with copper conductors only, no smaller than No. 6 AWG.
- 4. **Never** connect unit to a power supply with a load controller.
- Install spa in position which provides drainage of electrical component compartments.
- 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 5 feet

(1.5m) from the spa. All electrical connections should comply with local regulations.

DOS AND DON'TS OF SPA CARE

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 or certified technician 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 weekly 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.
- 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, next column.
- 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
 5-6 inches below top of spa lip.
- Operate the pump on high speed for ex-

tended 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
- f. Unconsciousness resulting in the danger of drowning

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

SPA INSTALLATION

The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code ANSI/NFPA70-1987. The disconnecting means must be accessible but installed at least 5 feet (1.5 m) from the spa water. All electrical connections should comply with article 680-D of the NEC.

EUROPEAN SPAS

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.

SPA SITE AND POSITIONING

Locate the spa on solid, level foundation or flooring, keeping in mind the weight of the filled spa in excess of 3,968lbs (1.800 kg) on some models. If you have any doubts about the load bearing ability of your chosen site, contact an architect/building contractor. The entire perimeter of the spa cabinet and spa bottom must be evenly supported. If your spa is installed outdoors, we recommend you provide a concrete pad for the spa to rest on 8ft x 8ft x 4in (2.5m x 2.5m x 10cm). Failure to provide a level surface could structurally damage your spa and void the warranty. The spa must be installed to allow access for service and maintenance on all four sides; therefore, below grade level or below deck installation is not

recommended.

SWIM SPA 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 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 lbs. (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 or deck level, you will be required to have a vault or pit constructed to prevent ground water, rain, snow melt or sources of water 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 to allow for routine maintenance of the swim spa components.

IMPORTANT: Proper drainage must be provided to keep base dry, especially if installed below ground/in a pit.

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

Consider the following:

- 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. Distance to trees (twigs, leaves and shade).
- 7. Dressing and bathroom location.
- 8. Storage area for equipment and chemicals.
- 9. Location to facilitate adult supervision.
- 10. Landscaping and nighttime lighting.
- 11. Accessibility to equipment.
- 12. Power supply location and foot traffic.

INDOOR INSTALLATION

Consider the following:

 Indoor spas promote high humidity. Using ventilation fans or commercial grade dehumidifiers will help to reduce humidity.

- 2. Floor drains must be provided near the spa to drain off water that may cause falls and/or water damage.
- Floor 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 should be made of materials able to withstand high humidity.
- 5. Floor load bearing capacities must be able to support the concentrated spa weight. 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 in the immediate area of the swim spa.
- Spas should be double checked for leaks before installing to avoid possible water damage. Dealer installation may include this service.
- Indoor sun rooms can maintain high ambient temperatures which may effect the 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 (1.5m) from all metal surfaces

8. For units for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5 feet (1.52 m) away, adjacent to, and within sight of the unit.

THERMAL CREEP

Your spa is manufactured with energy-efficient components and systems that capture heat generated by the equipment, then transfer that heat back to the spa water. In warmer weather or in situations with extended run times, "Thermal Creep" may occur. Thermal Creep is a condition whereby the actual water temperature is higher than the set temperature. To manage "Thermal Creep" you may:

- Vent your cover. Newer covers have removable center seal padding. To remove this padding, open the Velcro on one side of the vinyl pouch and slide the white padding out. If your spa does not have removable center seal padding, you may instead place a folded cloth about 3/4" (2cm) thick under all four corners of the cover before you lock it down. Opening the cover at night will also quickly cool the water down if desired.
- Open all air controls
- Set your filtration cycles to run during the cooler times of the day or at night
- Reduce the length of your filter cycles
- Visit your local dealer for additional guidance Thermal Creep only occurs in well-insulated hot tubs. It is not an indication that something is wrong with your spa or its equipment.

SPA SYSTEM COMPONENTS



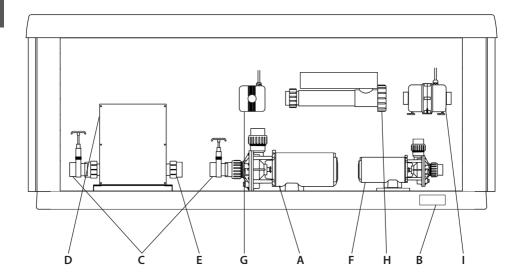


- A. Filter Skimmer/Weir: Removes floating debris from the water surface, provides a water return path to equipment, and houses water filter element.
- **B.** Topside Control Panel: Used to control temperature setting, pump for jets, and light.
- C. Status Light: The color of this light shows the hot tub operational condition - needs service, performing adequately, etc based on the color.
- D. Manufacturer's Identification Label:
 Contains identification information
 for warranty service (serial number, model
 number, etc.) and electrical information
 (amperage rating and amperage
 requirements).

- E. Equipment Pack Service Panel (no user serviceable parts): Spa support system consisting of 2-speed pumps, heater, and associated electrical controls are inside this front panel (not shown).
- F. Air Controls: Increases or decreases air entering the jets. Close during heating for maximum efficiency.
- G. Digital/Fiber Optic Lighting: Lighting system that displays multiple colored lights in pre-programmed random, solid or alternating colors (not shown).
- **H. Diverter Valve:** Used to control jet pumps.
- I. Stereo/Speakers
- J. Drain Access: (Adjacent to the equipment service panel) Spa drain faucets.

SPA COMPONENTS

Reference only. Equipment is not always as shown.



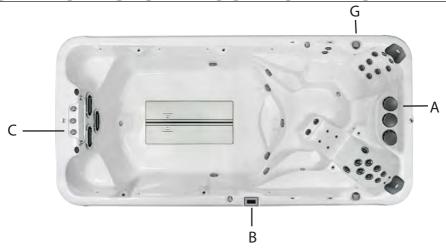
- A. Pumps (one pump or more, depending on model): Low speed for efficient water circulation during filtration and heating; high speed for maximum action of the jets. The pump functions are activated by topside controls.
- B. Manufacturer's Identification Label:
 Contains identification information
 for warranty service (serial number, model
 number, etc.) and electrical information
 (ampere rating and ampere requirements).
- C. Slice Valve: Used to shut off water flow from the spa to the equipment while servicing. Quantity will vary depending on model. All should be open during normal operations.

- **D. Electrical Connections:** Electrical inputs/ wires for the unit connect here.
- E. Heater Assembly: Thermostatically controlled and equipped with an overheat safety shut-off.
- F. Circ Pump (Optional)
- G. Ozone Generator (Optional)
- H. UV System (Optional)
- I. Blower (Optional)

Note: No consumer serviceable parts.

Do NOT attempt to service any of these components yourself. Contact your dealer for assistance.

SWIM SPA SYSTEM COMPONENTS

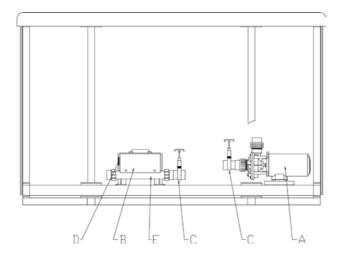


- A. Filter Skimmer/Weir: Removes floating debris from the water surface, provides a water return path to equipment, and houses water filter element.
- B. Topside Control Panel: Used to control temperature setting, jet pumps, underwater lights and ambient effect lighting.
- C. Air Controls: Increases or decreases air entering the jets. Close during heating for maximum efficiency. It is recommended that air controls to the 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 several of the following devices: electronic control pack, pumps, heater, UV water sanitizer, ozone generator, LED lighting interface and associated electrical controls.

- E. Drain Access: (Adjacent to the equipment service panel) Drain faucets are located immediately behind the front door panel. Remove panel to access (not shown).
- 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 (not shown).
- 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.



NOTE: No consumer serviceable parts. We recommend that only an authorized service technician perform swim spa repair or service.

- A. Pumps: Each pump features single or dual-speed capacity. Low speed is utilized for 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.

Warning and Installation Label: Contains important safety information, hazard warnings and installation instructions.

- C. Slive 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 receptacles for electrical connections.
 Connections are made during manufacture of the pool and by your electrician.
- **E. Heater Assembly:** Thermostatically controlled and equipped with an overheat safety shut-off.

JETS AND AIR CONTROLS

JETS

All spa jets are individually engineered to provide a unique hydro-massage. Depending on the model, your spa will have a combination of the following jets.

Swim Spa Jets

Swim spa 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 spa jets are individually engineered to provide a unique hydro-massage. Depending on the model, your spa will have a combination of the following jets.

Directional Jets

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. Nozzle can be rotated to target sore muscles.

Rotating Jets

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 for comfortable water flow settings for everyone to enjoy.

Euro Jets

Positioned in the foot well or shoulder areas, these jets deliver a penetrating massage to

dissolve tension. This jet may be the entry point for ozone produced during automatic filtration and therefore it is not adjustable. Note: Ozone production is stopped when functions are activated on control panel.

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 to ensure free movement, including the aurora cascades jets.

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

Rotating Jets

- Rotate the jet face left and right
- Return face plate to full open position
- · Turn the jets on high speed
- Twist the nozzle left and right
- Rotate the nozzle in the socket

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

CLEANING 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 **REMOVE** the smaller adjustable jet insert, wear latex or rubber gloves. Turn counterclockwise until you reach the stopping point. Exert more pressure to turn past the stopping point and as the jet 'clicks' pull the insert toward the center of the spa. Gently pull the jet insert 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 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 tap the jet until it snaps into position.

NEVER SHUT ALL FULL SIZED JETS OFF AT ONE TIME!

AIR CONTROLS

The intensity of the jet action can be controlled by altering the amount of air injected with water through the jets. Your spa has one or more air controls located on the lip of the spa. Each control activates air to specific jets in the 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.

NOTE: At the start of a filtration cycle, the Optional Air System is activated to purge the lines and ensure complete filtration. Ensure that at least one air control is always fully open.

Waterfall On/Off Valve: Turns on or shuts off the flow of water to multiple jets or the waterfall. This valve should be tested weekly to clean the lines and to help prevent debris build up.

Diverter Valve: Diverts water from one set of jets to another. This valve should be tested weekly to clean the lines and to help prevent debris build up.

NOTE: The diverter and on / off valve(s) should be cleaned regularly. Remove the handle by pulling upward and rocking it back and forth, unscrew the cap and pull the valve stem out. To clean the valve stem and housing, use a pressurized hose and spray the inside of the valve housing. Soak the valve stem in a diluted spa cleaning solution, rinse. Wipe the inside to remove debris.

NOTE: The diverter and waterfall on/off valve(s) should be adjusted regularly. When exiting the spa it is recommended that you leave the larger diverter valve(s) in the middle position so water circulates through all the iets attached to it. It is also recommended that you do not turn the smaller on/off valves completely off to allow warm sanitized water to flow through the jets or water features during programmed filtration cycles. When adjusting a valve that controls a water feature that shoots water above the lip of the spa it is important that the water feature **NOT** get enough water to hit the spa cover. This may allow water to exit the spa causing a low water condition.

ELECTRICAL INFORMATION

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

IMPORTANT SAFETY INSTRUCTIONS

All electrical connections to this spa package MUST be done by a qualified licensed electrician or certified technician in accordance with 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; DO NOT use aluminum.

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 50Hz or 60Hz alternating current only, at 240 volts or 120 volts, as required.

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 water leaks before reinstalling front panel.

FOR EUROPE ONLY

The spa is intended for use only in premises having a service current capacity ≥ 100 A per phase, supplied from a distribution network

having a nominal voltage of 230 V. The user shall determine in consultation with the supply authority, if necessary, that the service current capacity at the interface point is sufficient for the spa.

Equipment complying with IEC 61000-3-11.

GFCI

(Ground-Fault Circuit Interupter)
A qualified licensed electrician must connect the spa to a circuit protected by a GFCI.
This is a requirement by the National Electric Code, article 680.44, and is also in compliance with Underwriter's Laboratories, Inc.

RESIDUAL CURRENT DEVICE

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

INSTALLATION OPTIONS

Refer to the manufacturer's nameplate located on the kick plate to determine your spa's amperage requirements.

Note: Copper wire is strongly recommended for all electrical connections.

Spas installed for 120 volt operation require a 3-wire, 40, 30, 20 or 15 amp., 120 volt sub-feed in non-metallic pipe to the spa

equipment compartment (line 1, neutral and ground). A green colored terminal (or wire connector marked "G", or "GR", or "Groundina") 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 copper 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 ft. of the spa.

Spas installed for 240 volt, 60 Hz, single phase operation require a 4-wire, 60, 50, 40 or 30 amp., 240 volt sub-feed in non-metallic pipe to the spa equipment compartment (line 1, line 2, neutral and ground). A green colored terminal (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 copper 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.

CORD CONNECT

Certain models may be connected with a power cord which contains the GFCI or RCD

breaker. All electrical connections from the control pack to the outlet should be done by a qualified electrician. For your safety, when the electrician is installing the single electrical outlet and waterproof cover, the outlet should be no further than 10 feet (3m) from the spa [N.E.C. Article 680 and all local codes]. The Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (RCD) is located on the power cord. This device is for your protection. It is very important to protect it along with the moisture resistant cover from damage. Test once a month, with the plug connected to the power supply.

NEVER CONNECT SPA TO EXTENSION CORD!

A pressure wire connector is provided on the exterior surface of the control box inside the spa. This is to permit the connection of a ground bonding wire between this point and any metal equipment, enclosures, reinforced concrete pad, pipe, or conduit within 5 feet (1.5m) of the spa (if needed to comply with local building code requirements). The bonding wire must be at least a #10 AWG solid copper wire.

Bond the spa to all exposed metal equipment or fixtures, handrails, and concrete pad per N.E.C. Article 680 and all local codes.

- 1. Push the "TEST" button on the GFCI/RCD breaker. The spa should stop operating and the GCFI power indicator will go out.
- 2. Wait 30 seconds, then push the "RESET" button. Power will be restored to the spa and the GFCI/RCD power indicator will turn on. If the GFCI/RCD fails to operate in this manner, your spa may have an electrical malfunction, and you may be risking electrical shock. Turn off all circuits and do not use the spa until the problem has been corrected by an authorized service agent.

WARNING: Removal of the GECI/RCD from the

spa's power cord will result in an unprotected spa and will void the spa's warranty.

IMPORTANT: Should you ever find the need to move or relocate your spa, it is essential that you understand and apply these installation requirements. Your spa has been carefully engineered to provide maximum safety against electrical shock.

240 Volt Installation Units Electrical Requirements

Requirement

- 240 volt/60 amp, 50 amp, 40 amp, or 30 amp.
- -60 Hz
- Single phase
- 4-wire service (line 1, line 2 neutral and ground)

NOT NORTH AMERICAN

- 240 volt
- 50 Hz
- Single-, two-, or three- phase service
- Refer to wiring diagram or pouch on control system inside cabinet for specific wiring and phase information.

120 Volt Installation Units Electrical Requirements

Requirement

- 120 volt/30 amp or 15 amp.
- 60 Hz
- Single phase
- 3-wire service (line 1, neutral and ground)

THIS SECTION

APPLIES TO SPAS INSTALLED OUTSIDE OF NORTH AMERICA

Number	Meaning
1	The heater will only remain running with no more than two pumps on high speed. All pumps will run on high speed when heater is off.
2	The heater will only remain running with Pump 1 on low speed. Only the spa light can operate at the same time without disabling the heater. All pumps will run on high speed when heater is off.

DEDICATED 240V UNITS North America MODELS 240V/60A 240V/50A 240V/40A VM8 (Spa Side) 1 2 VM8 (Swim Side) 2 1 VM6 1 VB4 1 2 VL4 2 1 XB4 2 1 XI4 2 1 XF2 1 2 Mystique 1 2 2 Rendezvous 1 2 Riviera 1 Vivre 1 2 Cabaret 2 1 Joli 1 2 Trio 2 1 Prestige 2 1 1 2 Monarque 2 Envie 1 Grand 1 2 Luxe 1 2 2 Sensation 1 2 Elegant 1 Intrigue 1 2 2 Amour 1

See previous page for explanation of corresponding numbers.

2

Owner's Manual

1

Salon

NOTE: ALL SPAS IN THIS TABLE LEAVE THE FACTORY AS 240V AND CAN BE CONVERTED DOWN TO 120V

SPAS THAT ARE CONVERTIBLE (240V TO 120V) North America						
Model	120V/30A	120V/15A	240V/40A	240V/30A		
Lune	1	2	1	2		
Duet	1	2	1	2		
Voeux	1	2	1	2		
Image	1	2	1	2		

NOTE: Electrical service requirements will change after conversion.

See page 20 for explanation of corresponding letters and numbers.

START UP PROCEDURES

Follow recommendations for site location and electrical connection. 6" (15.5cm) below the top lip of the spa is the level at which the water should be maintained.

- Fill the spa through the filter hole to 6"
 (15.5cm) below the top of the spa with tap water. Never use 'softened' water in your spa. Softened water can impact the chemical balance of the water and lead to degradation of metal plumbing fittings and possible jet plastic damage.
- 2. After you have assured that the spa/swim spa is full of water and that all plumbing valves are open, turn power on to unit at circuit breaker or disconnect panel.
- 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 Spa (next column).

Important: Do not operate the spa without full water flow.

- 4. Add chemicals. See Chemical Treatment and Water Maintenance section. Follow Operating Insutructions for your particular model to set heat to the desired temperature. Initially, you may find that the spa requires 12 to 14 hours (18 to 24 hours for swim spas) on 230 Volt installations to reach temperature. Keep your thermal cover on the unit and close the air controls to help the heating process.
- 5. Verify all drain valves are closed, some are under the spa.

PRIMING YOUR SPA

When filling your spa for the first time or after draining and refilling the spa, you may need to bleed air from the system. Should you experience an air-lock on Pump 1, remove the filter cover, insert a garden hose through each center hole that holds the filter as far as possible without using force. Hold the hose in place and turn on the water. Cycle pump 1 from low to high several times, this forces water into the pump and forces the air out. If this does not work or you experience an air-lock on Pump 2, remove the side panel and locate the pump. With the pump on high speed, slowly loosen the discharge (top) pump union until water starts to trickle out. Once water is trickling out, hand tighten the union (do not over tighten as this could cause the union to crack) and replace the side panel.

Pr - Prime/Purge Pumps This is Not an Error Message.

The Spa has just been powered up and is in Priming Mode for 4 Minutes. Pumps can be turned ON and OFF to remove any air from the plumbing lines and the Heater. Cycle the pumps on and off to verify good water flow and wait 4 minutes or press any temp related button to exit Priming Mode.

SMARTTOUCH 2 WATERPROOF DISPLAY

MAIN SCREEN

Spa Status

Important information about spa operation can be seen on the Main Screen. Most features, including Set Temperature adjustment, can be accessed from this screen.

The actual water temperature and Set Temperature can be seen, and the Set Temperature can be adjusted (see page 25). Time-of-Day, Ozone and Filter status is available, along with other messages and alerts. The selected Temperature Range is indicated in the upper left corner. The Spa Equipment Control Icon will spin if any pump is running. A Lock icon is visible if the panel or settings are locked.

The Menu choices on the right can be selected and the screen will change to show more detailed controls or programming functions.



ICON Specifications

- 1. L = Low Temperature Range
- 2. IR = Rest Mode
- 3. F2 = Filter Cycle 2 Running
- 4. O3 = Ozone Running
- 5. C = Cleanup Cycle
- 6. Wi-Fi Signal Indicator
- 7. Lock Indicator Icon
- 8. Invert Screen
- 9. Light Icon = Turns on/off

- 10. Music Icon = Press to Enter Music Screen
- 11. Message Waiting Indicator
- 12. Turn Set Temperature Down
- 13. Heat Indicator
- 14. Settings Icon
- 15. Current Water Temperature
- 16. Temperature Scale (F/C)
- 17. Jets Icon
- 18. Turn Set Temperature Down

ICON QUICK GUIDE

H or L = High or Low Temperature Range

R = Ready Mode RR = Ready and Rest Mode

≅ = Rest Mode

 F_1 or F_2 = Filter Cycle 1 or 2 is Running

F₊ = Filter Cycles 1 and 2 are both running

03 = Ozone is running. If you do not see icon Ozone is off

C = Cleanup Cycle is running. Note: not all systems that run Cleanup Cycle display icon

= WiFi is connected (does not indicate signal strength) Note: Not all systems with WiFi display icon

There are 2 lock icons that can be displayed on the title bar of most screens.

A tall skinny lock representing a settings lock is applied and/or the Control Panel screen is locked.

= Invert (or flip) Screen

Music Icon

📤 = Fatal Error Message 📤 = Normal Error

Touching the Error/Warning/Reminder/Info Icon on the Message Screen will take you to the System Information Screen to help you troubleshoot with a field service tech to better understand what is going on.

or Adjust temp higher or lower

= Jet Control Icon brings up a screen where the jets, blower, etc can be controlled.

Settings Icon

NAVIGATION

Navigating the entire menu structure is done by touching the screen. The three screen selections indicated below can be selected. Touch one of these to enter a different screen with additional controls. Most menu screens time out and revert to the main screen after 30 seconds of no activity.



MESSAGES

Owner's Manual

At the bottom of the screen, at certain times an indicator may appear showing that a message is waiting. Touch this indicator to go to the Message Display Screen. On that Screen some of the messages can be dismissed.



3

25

SET TEMPERATURE SCREEN

Set Temperature

Press Up or Down to modify the Set Temperature. The Set Temperature changes immediately.

If you need to switch between high range and low range you need to go to the Settings Screen.

Press-and-Hold

If the Up or Down button is pressed and held, the temperature will continue to change until the button is released, or the Temperature Range limits are reached.



SPA SCREEN

All Equipment Access

Select the Jets icon to navigate to the SPA screen.

The Spa Screen shows all available equipment* to control, as well as other features, like Invert. The display shows icons that are related to the equipment installed on a particular spa model, so this screen may change depending on the installation. The icon buttons are used to select and control individual devices. Some devices, like pumps, may have more than one ON state, so the icon will change to reflect the state that the equipment is in. Below are some examples of 2-speed Pump indicators.

If the Spa has a Circ Pump, a Circ Pump Icon will appear to indicate its activity, but outside of Priming Mode, the Circ Pump cannot be controlled directly.









Jets Low (animation)



Jets High (animation)

COMMON BUTTONS

Values Increment/Decrement

If an Up or Down button is shown and pressed when on an editing page, and a value has been selected (highlighted), the value can be incremented by pressing the up arrow or decremented by pressing the down arrow.



Aqua-Glo

Will appear on the upper right on all screens

- Eleven light shows users can access without having to cycle the power to the lights
 On and Off
- Independent control of the interior (Zone A: Main) and optional exterior (Zone B: Perimeter) light zones
- Eight different brightness levels (controlled via "+- light bulb" icon).
- Three changing color shows
- Six different speeds for the color changing shows, accessed through the speedometer icon





Invert

Will appear on the upper right on all screens



COMMON BUTTONS - CONTINUED

Exiting Screens

The Back button is on every screen except the Main Screen, the Priming Mode Screen and a Message Display Screen. When you see <u>only</u> this button, or this button plus an <u>Inactive</u> Save Button, it means Back or Exit. It appears on editing screens before you have changed any value, as well as on all other screens.





When you see both the Back button and the Active Save button, the Save button will Save, while the Back button will Cancel. If the screen times out due to no activity it will act like Cancel.

MORE COMMON BUTTONS

Page Right/Left

If there is a right arrow at the bottom of the screen, it takes you to the next page. If there is a left arrow at the bottom of the screen, it takes you to the previous page.





Page Up/Down

If an Up or Down button is shown and pressed when on a page with a text list, the list can be scrolled up page at a time.



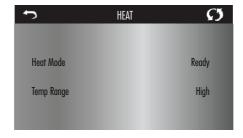
SETTINGS SCREEN

Programming, Etc.

The Settings Screen is where all programming and other spa behaviors are controlled. Each icon on the Settings screen takes you to a different screen, where one or more settings may be viewed and/or edited.



The Heat Icon takes you to a screen where you control the Heat Mode and Temperature Range.



Dual Temperature Ranges (High vs. Low)

This system incorporates two temperature range settings with independent set temperatures. The specific range can be selected on the Settings screen and is visible on the Main Screen in the upper right corner of the display.

These ranges can be used for various reasons, with a common use being a "ready to use" setting vs. a "vacation" setting. Each range maintains its own set temperature as programmed by the user. This way, when a range is chosen, the spa will heat to the set temperature associated with that range.

High Range can be set between $80^{\circ}F$ and $104^{\circ}F$ ($26^{\circ}C - 40^{\circ}C$). Low Range can be set between $50^{\circ}F$ and $99^{\circ}F$ ($10^{\circ}C - 26^{\circ}C$). Freeze Protection is active in either range.

SETTINGS SCREEN CONTINUED

Heat Mode - Ready vs. 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 (Pump 1) or a circulation pump. If the heater pump is a 2-Speed Pump 1, Ready Mode will circulate water every 1/2 hour, 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 will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the heater pump has been running for a minute or two. When the heater pump has come on automatically (for example for heating) you can switch between low speed and high speed but you cannot turn the heater pump off.

Circulation Mode

If the spa is configured for 24HR circulation, the heater pump generally runs continuously. Since the heater pump is always running, the spa will maintain set temperature and heat as needed in Ready Mode, without polling. In Rest Mode, the spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in 24HR circulation mode.

Ready-in-Rest Mode

Ready in Rest Mode appears in the display if the spa is in Rest Mode and the Jets 1 Button is pressed. When the heater pump has come on automatically (for example for heating) you can switch between low speed and high speed but you cannot turn the heater pump off. After 1 hour, the System will revert to Rest Mode. This mode can also be reset or changed by entering the Settings Menu and selecting the Heat Mode line.

FILL IT UP!

Preparation and Filling

Fill the spa to its correct operating level (6"/15.5cm below the top of the spa). 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. After turning the power on at the main power panel, the top-side panel will display a splash screen or startup screen.

Priming Mode - M019

After the initial start-up sequence, the control will enter Priming Mode and display a Priming Mode screen. Only pump icons appear on the priming mode screen. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by selecting the "Jet" buttons. If the spa has a Circ Pump, it can be turned on and off by pressing the "Circ Pump" button during Priming Mode.

Important: A pump should not be allowed to run without priming for at least 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.

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 and then again to switch to high-speed. Also, select the other pumps, to turn them on. The pumps should be running in high-speed to facilitate priming. If the pumps have not primed after 2 minutes, and water is not flowing from the jets in the spa, do not allow the pumps to continue to run. Turn off the pumps and repeat the process. Note: Turning the power off and back on again will initiate a new pump priming session. Sometimes momentarily turning the pump off and on will help it to prime. Do not do this more than 5 times. If the pump(s) will not prime, shut off the power to the spa and call for service.



FILL IT UP! CONTINUED

Exiting Priming Mode

The system will automatically enter the normal heating and filtering at the end of the priming mode, which lasts 4-5 minutes. You can manually exit Priming Mode by pressing the "Back" button on the Priming Mode Screen. 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 panel will display the Main Screen, 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.

$$- - - ^{\circ}F - - - ^{\circ}C$$

SPA BEHAVIOR

Pumps

On the Spa Screen, select a "Jets" 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-Circ Systems

The low-speed of pump 1 runs when the blower or any other pump is on. If the spa is in Ready Mode (see page 30), Pump 1 low may also activate for at least 1 minute every 30 minutes to detect the spa temperature (polling) and then to heat to the set temperature if needed. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.

Circulation Pump Modes

If the system is equipped with a circ pump, the circ pump operates 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 a very hot climate). This is called thermal creep.

Filtration and Ozone

On non-circ systems, Pump 1 low and the UV/ozone generator (if so equipped) will run during filtration. On circ systems, the UV/ozone will generally run with the circ pump but can be limited to filtration cycles. (On some circ systems, Pump 1 low will run along with the circ Pump during filtration). The system is factory-programmed with one filter cycle that will run in the evening (assuming the time-of-day is properly set) when energy rates are often lower. The filter time and duration are programmable. A second filter cycle can be enabled as needed.

At the start of each filter cycle, devices like the blower and secondary pumps will run briefly to purge the plumbing to maintain good water quality.

SPA BEHAVIOR - CONTINUED

Freeze Protection

If the temperature sensors within the heater detect a low enough temperature, then the water devices automatically activate to provide freeze protection. The water devices will run either continuously or periodically depending on conditions.

In colder climates, an optional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection act similarly except with the temperature thresholds determined by the switch. See your dealer for details.

Clean-up Cycle (optional)

When a pump or blower is turned off by a button press or after it has timed out, a clean-up cycle runs for 30 minutes after 1 hour of no activity. Pump 1 on Low Speed and the ozone generator will run for the set time. The pump and the ozone generator will run for 30 minutes or more, depending on the system. On some systems, you can change this setting.

TIME OF DAY

Be sure to set the Time-of-Day

Setting the time-of-day is important for determining filtration times and other background features.

The Time Icon on the Settings Screen takes you to a screen where you control Time-of-Day.

On the Time-of-Day screen, simply select the Hours and Minutes. Use the Up and Down buttons to make changes, then press the check mark to save.



If no time-of-day is set in the memory an Information Screen will appear. If you exit, an Information Icon will appear at the bottom of the Main Screen, until the time-of-day has been set. This only applies to some systems: If power is interrupted to the system, Time-of-Day will be maintained for several days.





ADJUSTING FILTRATION

Main Filtration

Using the same adjustment as Setting the Time, Filter Cycles are set using a start time and a duration. Each setting can be adjusted in 15-minute increments. The panel calculates the end time and displays it automatically.

The Filter Icon on the Settings Screen takes you to a screen where you control the Filter Cycles.



Purge Cycles

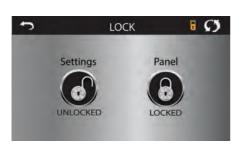
In order to maintain sanitary conditions, as well as protect against freezing, secondary water devices will purge water from their respective plumbing by running briefly at the beginning of each filter cycle. If the Filter Cycle 1 duration is set for 24 hours, enabling Filter Cycle 2 will initiate a purge when Filter Cycle 2 is programmed to begin.

The Meaning of Filter Cycles

- 1. The heating pump always runs during the filter cycle
- 2. In Rest Mode, heating only occurs during the filter cycle
- 3. Purges happen at the start of each filter cycle

RESTRICTING OPERATION





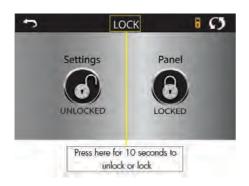
The control can be restricted to prevent unwanted use or temperature adjustments. Locking the Panel prevents the controller from being used, but all automatic functions are still active.

Locking the Settings allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted.

Settings Lock allows access to a reduced selection of menu items. These include Filter Cycles, Invert, Information and Fault Log. They can be seen, but not changed or edited.

Panel Locked and Settings Unlocked.

LOCKING AND UNLOCKING



The same steps are used to Lock and Unlock. To lock either Settings or Panel first tap the Settings icon (if it says "Unlocked") or Panel icon (if it says "Unlocked"), then press the word "Lock" for at least 10 seconds

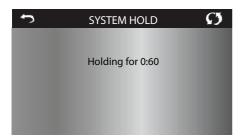
To unlock either Settings or Panel first tap the Settings icon (if it says "Locked") or Panel icon (if it says "Locked"), then press the word "Lock" for at least 10 seconds.

If both are locked, you must unlock the Panel first.

Hold - M037

Hold Mode is used to disable the pumps during service functions like cleaning or replacing the filter. Hold Mode will last for 1 hour unless the mode is exited manually. If spa service will require more than an hour, it may be best to simply shut down power to the spa.

The Hold Icon on the Settings Screen places the spa in Hold Mode and displays the System Hold Screen. Touch Back to exit Hold Mode.



UTILITIES SCREEN

Utilities

The Utilities Icon on the Settings Screen takes you to the Utilities Screen.

The Utilities Screen contains the following:

- Panel
- Faults
- GFCI



Panel

Touching the Panel Icon on the Utilities Screen takes you to the Panel Screen, where you can set how long it takes the panel to go to sleep after the last activity.

The Sleep Timer can be set from 1 minute to 60 minutes. The default is 30 minutes.



ADDITIONAL SETTINGS

Fault Log

The Fault Log is a record of the last 24 faults that can be reviewed by a service tech. Use the Up and Down buttons to view each of the Faults.

When Priming Mode shows in the Fault Log, it is not a fault. Rather, it is used to keep track of spa restarts.

Units Screen

The Units Icon on the Settings Screen takes you to the Units Screen.

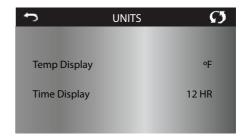
Press "Temp Display" to change the temperature between F° and C°

Press "Time Display" to change the clock between 12 hr and 24 hr display.

Reminders

The Reminders Icon on the Settings Screen takes you to the Reminders Screen.

Press "Reminders" to turn the reminder messages (like "Clean Filter") ON (Yes) or OFF (No).





Cleanup Cycle

Cleanup Cycle Duration is not always enabled, so it may not appear. When it is available, set the length of time Pump 1 will run after each use. 0-4 hours are available. Setting it to 0.0 Hr keeps the Cleanup Cycles from running.

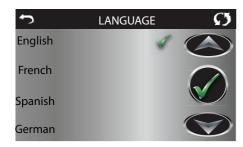
The Cleanup Icon an on the Settings Screen takes you to the Cleanup Cycle Screen.



ADDITIONAL SETTINGS - CONTINUED

Language

The Language Icon on the Settings Screen takes you to the Language Screen. Change the language displayed on the panel.





GFCI TEST FEATURE

GFCI Test

(Feature not available outside North America)

Your system may have GFCI configured in one of three ways:

- 1. GECI test is not enabled
- 2. Manual GFCI test is enabled but automatic GFCI test is not enabled
- 3. Both manual and automatic GFCI tests are enabled. The automatic test will happen within 7 days of the spa being installed and if successful will not repeat. (If the automatic test fails it will repeat after the spa is restarted).



GFCI Saefty Feature

The Ground Fault Circuit Interrupter (GFCI) or Residual Current Detector (RCD) is an important safety device and is required equipment on a hot tub installation.

(The GFCI Test Feature is not available outside North America.)

Used for verifying a proper installation

Your spa may be equipped with a GFCI Protection feature. If your spa has this feature enabled the GFCI Trip Test must occur to allow proper spa function.

Within 1 to 7 days after startup, the spa will trip the GFCI to test it.

The GFCI must be reset once it has tripped. After passing the GFCI Trip Test, any subsequent GFCI trips may indicate a ground fault or other unsafe condition and the power to the spa must be shut off until a service person can correct the problem.

Forcing the GFCI Trip Test (North America Only)

Touching the GFCI Test Icon and the Utilities Screen takes you to the GFCI Test Screen. The installer can cause the GFCI Trip Test to occur sooner by pressing Test on the GFCI Test Screen. The GFCI should trip within several seconds and the spa should shut down. If it does not, shut down the power and manually verify that a GFCI breaker is installed and that the circuit and spa are wired correctly. Verify the function of the GFCI with its own test button. Restore power to the spa and repeat the GFCI Test Trip. Once the GFCI is tripped by the test, reset the GFCI and the spa will operate normally from that point. You can verify a successful test by navigating to the above screen. "Passed" should appear after the Reset line is selected on the GFCI screen. NOTE: Only use the Reset button prior to moving the spa to a new location, it will force a new Test to be performed at the new location.

GFCI TEST FEATURE - CONTINUED

Warning:

On those systems that automatically test the GFCI within 1 to 7 days after startup:

The end-user must be trained to expect this one-time test to occur.

The end-user must be trained how to properly reset the GFCI.

If freezing conditions exist, the GFCI or RCD should be reset immediately or spa damage could result.

CE Product:

CE registered systems do not have an RCD Test Feature due to the nature of the electrical service. Some UL registered systems do not have the GFCI Test Feature activated.

The end-user must be trained how to properly test and reset the RCD.

GENERAL MESSAGES

Messages

Most messages and alerts will appear at the bottom of the normally used screens. Several alerts and messages may be displayed in a sequence.

Water Temperature is Unknown

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



Possible freezing condition

A potential freeze condition has been detected. All water devices are activated. In some cases, pumps may turn on and off and the heater may operate during Freeze Protection. This is an operational message, <u>not an error indication</u>.

The water is too hot - M029*

The system has detected a spa water temp of 110°F (43.3°C) or more, 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.

*MOXX is a Message Code. Codes like this will be seen in the Fault Log

Flow-Related Checks

Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime.

On some systems, even when the spa is shut down by an error condition, some equipment may occasionally turn on to continue monitoring temperature or if freeze protection is needed.

* Some messages can be reset from the panel. Messages that can

be reset will appear with a Clear Icon at the bottom of the Message

Screen. Press the Clear Icon text to reset the message.

42

REMINDER MESSAGES

General maintenance helps.

Reminder Messages can be activated or suppressed by using the Reminders Screen. Reminder Messages can be chosen individually by the Manufacturer. They may be disabled entirely, or there may be a limited number of reminders on a specific model. The frequency of each reminder (i.e. 7 days) can be specified by the Manufacturer.

Check the pH

May appear on a regular schedule, i.e. every 7 days. Check pH with a test kit and adjust pH with the appropriate chemicals.

Check the sanitizer

May appear on a regular schedule, i.e. every 7 days. Check sanitizer level and other water chemistry with a test kit and adjust with the appropriate chemicals.

Clean the filter

May appear on a regular schedule, i.e. every 30 days.

Clean the filter media as instructed by the manufacturer.

Test the GFCI (or RCD)

May appear on a regular schedule, i.e. every 30 days. The GFCI or RCD is an important safety device and must be tested on a regular basis to verify its reliability. Every user should be trained to safely test the GFCI or RCD associated with the hot tub installation. A GFCI or RCD will have a TEST and RESET button on it that allows a user to verify proper function.

Change the water

May appear on a regular schedule, i.e. every 90 days. Change the water in the spa on regular basis to maintain proper chemical balance and sanitary conditions.

Clean the cover

May appear on a regular schedule, i.e. every 180 days. Vinyl covers should be cleaned and conditioned for maximum life.

Change the filter

May appear on a regular schedule, i.e. every 365 days.

Filters should be replaced occasionally to maintain proper spa function and sanitary conditions.

Change the UV Lamp

May appear on a regular schedule, i.e. every 540 days. UV bulbs should be replaced regularly to maintain optimal water treatment and sanitary conditions.

Additional messages may appear on specific systems.

TP740 CONTROL PANEL

MAIN SCREEN

Spa Status

Important information about spa operation can be seen on the Main Screen. Most features, including Set Temperature adjustment, can be accessed from this screen.

The actual water temperature and Set Temperature can be seen, and the Set Temperature can be adjusted. Time-of-Day, Ozone and Filter status is available, along with other messages and alerts. The selected Temperature Range is indicated in the upper left corner. A Lock icon is visible if the panel or settings are locked.

The Menu choices on the left can be selected and the screen will change to show more detailed controls or programming functions.





ICON Specifications

A - Temperature range

High: H Low: L

B - Heat mode

Ready: R Rest: IR Ready-in-Rest: RR

C - Ozone is running: O3

D - Time of day

E - Filter cycle is running

Filter cycle 1: F1

Filter cycle 2: F2 (optional feature)

Filter cycles 1 & 2 running together: F12

F - Cleanup cycle is running

G - Panel is locked and/or Settings are locked

H - Contro MySpa™

connected (local or cloud connection)

- I Arrow
- J Heat Status
- K Set temperature arrow
- L Water temperature
- M Water temperature bar
- N Message (may appear)
- O Select Navigation Button



Information



Reminder



Error - normal error or warning



Error - spa will not function until fixed

ICON QUICK GUIDE

- H or L = High or Low Temperature Range
- R = Ready Mode RR = Ready and Rest Mode
- ≅ = Rest Mode
- F_1 or F_2 = Filter Cycle 1 or 2 is Running
- F+ = Filter Cycles 1 and 2 are both running
- Ozone is running. If you do not see icon Ozone is off
- C = Cleanup Cycle is running. Note: not all systems that run Cleanup Cycle display icon
- = WiFi is connected (does not indicate signal strength) Note: Not all systems with WiFi display icon

There are 2 lock icons that can be displayed on the title bar of most screens.

A tall skinny lock representing a settings lock is applied and/or the Control Panel screen is locked.

= Invert (or flip) Screen

■ = Light is ON ■ = Light is OFF

Music Icon

📤 = Fatal Error Message 📤 = Normal Error

S = Reminder Message = Info Message

FILLING YOUR SPA

PREPARATION AND FILLING

Fill the spa to its correct operating level (6"/15.5cm below the top of the spa). 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. After turning the power on at the main power panel, the top-side panel will display a splash screen or startup screen.

PRIMING MODE

This mode will last 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed. Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically return to normal heating and filtering at the end of the priming mode. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow/no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by pushing the "Jet" buttons. If the spa has a Circ Pump, it can be activated by pressing the "Light" button during Priming Mode.

IMPORTANT: A pump should not be allowed to run 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

Manually exit Priming Mode by pressing either Temperature button. If you do not manually exit the priming mode, it 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 panel will momentarily display the set temperature but the display will not show the temperature yet because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it accurately.

SPA BEHAVIOR

Pumps

Press the "Jets 1" button once to turn pump 1 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. The pump 1 low-speed will time out after 30 minutes. The high-speed will time out after 30 minutes. On non-circ systems, the low-speed of pump 1 runs when the blower or any other pump is on. If the spa is in Ready Mode, Pump 1 low may also activate for at least 1 minute every 30 minutes to detect the spa temperature and then to heat to the set temperature if needed. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.











MENU NAVIGATION

The arrow (A) on the Main screen indicates the Main menu. Press the RIGHT navigation button until you enter the Main menu. A selection box (B) indicates that a menu item is selected. In this example Settings (B) is selected. Press the SELECT navigation button to enter the Settings screen (D)

ARROWS

Arrows (C, E, G, L) indicate more menu items. Each arrow corresponds with a navigation button. For example, the right arrow (C) corresponds with the RIGHT navigation button. The left arrow (L) corresponds with the LEFT navigation button, etc

BACK BUTTON

Use the Back icon (K) to navigate back in the menu structure. Use the navigation buttons to select the Back icon. The selection box (K) indicates that the Back icon is selected. When the Back icon is selected, press the SELECT navigation button to navigate back.

ON/OFF SWITCHES

In this example Reminders has an On/Off switch (F). When Reminders is selected, press the SELECT navigation button to turn the switch On/Off. In this example the switch is On (F).

MENU ITEMS WITHOUT AN ARROW OR ON/OFF SWITCH

If a menu item, such as Time (M), doesn't have an arrow (E) or an On/Off switch (F), use the SELECT button to enter a screen related to that menu item.

SELECT, SAVE, CANCEL

Select one of these columns (1) with the RIGHT and LEFT navigation buttons. Change the selected setting with the UP and DOWN navigation buttons. After you change the settings, select the Save icon (H) and press the SELECT navigation button. After you press SELECT, the setting is now saved. If you decide to cancel your new settings, select the Cancel icon (J) and press the SELECT navigation button











NAVIGATE MAIN MENU

- 1 Start from the Main screen (A), and press the RIGHT navigation button until the Main menu (B) appears.
- 2 Spa (B) is the first item in the Main menu. Continue pressing the RIGHT navigation button to view all items in the Main menu.
- 3 If you want to navigate back to the Main screen, press the UP navigation button to select the Back icon (F). Once the Back icon is selected, press the SELECT navigation button and the Main screen will appear (A).

NAVIGATE SETTINGS MENU

- 1 Start from the Main screen (A), and press the RIGHT navigation button until the Main menu (B) appears.
- 2 Spa (B) is the first item in the Main menu. Continue pressing the RIGHT navigation button until Settings (C) is selected.
- 3 Press the SELECT navigation button to view the Settings menu (D).
- 4 The arrow (E) indicates more settings. Press the DOWN navigation button to scroll down the Settings list.
- 5 If you are at the bottom of a long list, press the LEFT navigation button to select the Back icon (F).

AOUA-GLO LIGHTING

- 1 Multi-Zone controller with shows
- 2 Accessed via virtual buttons (icons) only

INVERT SCREEN

To invert the display for easy viewing while in the spa use the arrow buttons to navigate to the invert icon. Press to select.

PRESS-AND-HOLD

If you need to navigate a long list, press-and-hold the UP or DOWN navigation button. For example, press-and-hold the DOWN navigation button to scroll down the Settings menu (D).











SET TIME OF DAY

Follow these steps to set the time of day:

- 1 Go to the Main menu, Settings and Time (A) to view the Time screen (B).
- 2 Set the time.
- 3 Cancel your settings (H), or save your settings (C).

Setting the time of day can be important for determining water filtration times and other background features.

If time of day has not been set, an information icon appears (G). If the selection box is not already around the Information icon (G), select the Information icon (F). Press the SELECT navigation button to view the corresponding message (D). Exit the information screen (E).

You can choose a 12-hour or 24-hour time display (View "Set Units" on page 12). CE control systems default to a 24-hour time display.











CHANGE/VIEW SET TEMPERATURE

Follow these steps to change or view the Set Temperature:

- 1 Start at the Main screen (A), and press the SELECT navigation button to view the temperature menu (D). If the selection box is on a message icon (H), press the RIGHT navigation button and then the SELECT navigation button to view the Temperature menu.
- 2 The center box (E) indicates the current Set Temperature.
- 3 Press (or press-and-hold) the RIGHT or LEFT navigation buttons to change the Set Temperature.
- 4 Once the desired Set Temperature is in the center box, press the SELECT navigation button to exit the Temperature menu. Or, wait a few seconds, and the panel will exit the Temperature menu automatically.

How do I view the water temperature? The water temperature is displayed on the Main screen (B).

What do the dashes mean (F)?

They indicate that the spa control has not checked the water temperature for approximately an hour. A pump needs to cycle water through the heater for the control system to check the water temperature. After water cycles through the heater for 1 minute, the dashes are replaced with the current water temperature (B). Whenever the control system is powered On, dashes appear (F) for one minute while a pump cycles water through the heater to check the current water temperature.

How do I know when the water heater is On (G)? The flame icon appears in the lower right corner of the display (G). The flame icon disappears when the heater is Off.







RUN SPA DEVICES

A spa device is a pump, blower, light, etc. Press these buttons (E) to run spa devices. Depending on how many devices your system has, these buttons (E) may not control all of them. All devices can be controlled from the Spa screen (B).

Follow these steps to run spa devices from the Spa screen.

- 1 Go to the Main menu and Spa (A) to view the Spa screen (B).
- 2 Control your devices.

The functionality of each spa device may vary. For example, some devices may have a single speed or state, while other spa devices may have multiple speeds or states. Your spa configuration will determine the number of spa devices and the functionality of each device.

One Spa screen (B) can display a maximum of six devices. If your spa has more than six devices, a arrow will appear (C). Press the RIGHT navigation button to view and/or run devices on the next Spa screen.

If a Circulation Pump icon appears (D) in the Spa screen, the icon is not controllable. It is there to show you the equipment status only.











SET FILTER CYCLE TIME

Keep your water clean and ready to enjoy! Follow these steps to set the filter cycle time:

- 1 Go to the Main menu, Settings, Filter (A) and Start (B) to view the Filter Cycle 1 Start screen (C).
- 2 Set the time.
- 3 Cancel your settings (1), or save your settings (D).
- 4 Follow the same process to change the other filter cycle time times.
- 5 Once all of the times are set, you can cancel your settings by using the Back icon (H), or save your settings (E).

If filter cycle 2 is enabled.

A white ring appears around the "2" icon (G). To activate or deactivate the 2nd filter cycle click on and select the number 2 on the left side of the screen.

How can you tell when a filter cycle is running? "F1" appears (F) when filter cycle 1 is running. "F2" appears (F) when filter cycle 2 is running. "F12" appears (F) when filter cycles 1 & 2 are running together.









SET UNITS

Follow these steps to set the units:

- 1 Go to Settings (B) and Units (C) to view the Units screen (D).
- 2 Set the Temperature units and Time units
- (E). The changes take effect immediately. No need to press a save button



SELECT LANGUAGE

Follow these steps to select a language:

- 1 Go to the Main menu, Settings and Language (A) to view the Language screen (B).
- 2 Select a language (C). The change takes effect immediately. No need to press a save button.











LOCK THE PANEL AND/OR SETTINGS

Follow these steps to lock the Settings:

- 1 Go to the Main menu, Settings, Locks (A) and Settings (C). Settings are unlocked in this example (C).
- 2 Press-and-hold the SELECT navigation button for approximately 5 seconds. After 5 seconds a lock icon will appear (D) and the switch icon will turn On (E).

Lock icons appear in these locations (D)(F) when the Settings are locked.

Follow these steps to unlock the Settings:

1 - Go to Settings (E), and press-and-hold the SELECT navigation button for approximately 5 seconds. After 5 seconds, the lock icons (D)(F) disappear, and the switch icon turns Off.

Follow the same steps to lock/unlock the panel. Lock icons appear in these locations (D)(F) when the Panel and/or Settings are locked.

402 CONTROL PANEL



If your Topside Control looks like this, your spa has the following features:

- Internal Lights
- 1 Pump 2 speed

NOTE: See next page for pictures and explanation of 402 Control Panel button functions.

OPERATING INSTRUCTIONS

The 402 Controls offer you simplicity 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 durations.

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:

Pad	Use
	Decrease temperature Increase temperature Change filer durations
(*)	Turn internal spa light on or off Switch modes Set duration of filter cycles
	Activate therapy pump

TEMPERATURE CONTROLS

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 **JETS** 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. Either the actual temperature or 2 dashes will be displayed. 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 LCD indicator below the 'TEMP' icon will be lit.

JETS

Touch the 'JETS' 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: 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

Standard/Economy/Sleep Modes

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 on Pump 1 and the heater will come on automatically to maintain the set temperature of the water.

If your spa is set in the **Economy mode**, the heater will operate **ONLY** during the filtration cycles. The pump will circulate for approximately two minutes several times throughout the day to sample water temperature.

If your spa is set in the **Sleep mode**, the heater and pump will operate either during a filtration cycle or, when the heater housing temperature drops below 45°F (7,2°C). 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.

When in **Standard mode**, the letters '**ST**' are displayed, followed by the water temperature. When in **Economy mode**, the letters '**EC**' are displayed alternately with the water temperature. When in **Sleep mode**, the letters '**SL**' are displayed alternately with the water temperature.

SETTING TIME AND FILTRATION CYCLES

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.

Changing Filter Cycle Start Time

The start/stop times of the filter cycle correspond to 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, unplug the spa and re-connect it 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 (indicated by FC). 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. The default filter time is 2 hours for non-circ systems and 4 hours for circ systems.

You will need to program your filter cycles based upon your personal use.

To program, press "Temp," then "Jets 1."
Press "Temp" to adjust. Press "Jets 1" to exit programming.

For non-circ systems, low-speed pump 1 and the ozone generator (if installed) run during filtration.

For 24 hour circ systems, the circ pump and the ozone generator (if installed) run 24 hours. In hot environments, the circ pump may turn off for 30 minute periods, except during filter cycles.

For non-24 hour circ systems, the circ pump and ozone generator (if installed) run during filtration (and may also run automatically at other times).

At the beginning of each filter cycle all other equipment will run briefly to purge the plumbing.

TP500 CONTROL PANEL



NOTE: The look of your topside control panel design and buttons will vary according to features available on your spa. See table below for explanations of TP500 Control Panel button functions.

BUTTON	NAME	FUNCTION	MAIN MENUS
0000	Jets 1 Jets 2 Blower	Activates jets on low or high setting Activates blower	
	Temperature	Changes temperature and allows for navigation through system	If panel has Up & Down temp buttons, pressing either will cause the temperature to flash. Pressing a Temp Button again with adjust the set temp in the direction indicated on the button. When LCD stops flashing, spa will heat to the new set temp when required. If panel has a single Temp Button, pressing the button will cause temp to flash. Pressing the button again will cause the temp to change in one direction (up). After allowing the display to stop flashing, pressing the Temp Button will cause the temp to flash and the next press will change the temp in the opposite direction (down).
	Light	Activates lights and chooses	The LIGHT button is used to activate spa lights
		Menu	Used to access and cycle through menues
50			Owner's Manual

FILLING YOUR SPA

PREPARATION AND FILLING

Fill the spa 5-6" (13-15cm) below the lip of the spa. 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.

PRIMING MODE

This mode will last 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed. Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically return to normal heating and filtering at the end of the priming mode. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow/no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by pushing the "Jet" buttons. If the spa has a Circ Pump, it can be activated by pressing the "Light" button during Priming Mode.

PRIMING THE PUMPS

After the display has gone through start up screens: "RUN" "PMPS" "PURG" "AIR" "-----", push "Jet" button once to start Pump 1 in low-speed and again to switch to high-speed. Push the Pump 2 button (if you have a 2nd pump) to turn it on. The pumps will not be running in high-speed to facilitate priming. If the pumps have not primed after 2 minutes, and water is not flowing from the jets in the spa, turn off the pumps and repeat. NOTE: Turning the power off/on again will initiate a new pump priming session. Sometimes turning the pump off/on helps it to prime. If the pumps will not prime after 5 times, turn power off and call for service.

IMPORTANT: A pump should not be allowed to run 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

Manually exit Priming Mode by pressing either Temperature button. If you do not manually exit the priming mode, it 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 panel will momentarily display the set temperature but the display will not show the temperature yet because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it accurately.

SPA BEHAVIOR

Pumps

Press the "Jets 1" button once to turn pump 1 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. The pump 1 low-speed will time out after 30 minutes. The high-speed will time out after 30 minutes. On non-circ systems, the low-speed of pump 1 runs when the blower or any other pump is on. If the spa is in Ready Mode, Pump 1 low may also activate for at least 1 minute every 30 minutes to detect the spa temperature and then to heat to the set temperature if needed. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.

Circulation Pump Modes

The circ pump (if your spa is equipped with one) operates 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 very hot climates).

Filtration and Ozone

On non-circ systems, Pump 1 low and the ozone generator will run during filtration. On circ systems, the ozone will run with the circ pump.

The system is factory-programmed with one filter cycle that will run in the evening (assuming the time-of-day is properly set) when energy rates are often lower. The filter time and duration are programmable. A second filter cycle can be enabled as needed. At the start of each filter cycle, the blower (if there is one) or Pump 2 (if there is one) will run briefly to purge its plumbing to maintain good water quality.

Freeze Protection

If the temperature sensors within the heater detect a low enough temperature, the pump(s) and the blower automatically activate to provide freeze protection. The pump(s) and blower will run either continuously or periodically depending on conditions.

In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

Clean-up Cycle (optional)

When a pump or blower is turned off by a button press or after it has timed out for

30 minutes, a clean-up cycle runs for 30 minutes. Pump 1 on Low Speed and the ozone generator will run for the set time. The pump and the ozone generator will run for 30 minutes or more, depending on the system. On some systems, you can change this setting.

TEMPERATURE & TEMP RANGE

Adjusting the Set Temperature

Pressing Up or Down temperature buttons 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 spa will heat to the new set temperature.

If the panel has a single temperature button, pressing the button will cause the temperature to flash. Pressing the button again will cause the temperature to change in one direction (e.g. UP). After allowing the display to stop flashing, pressing the Temperature Button will cause the temperature to flash and the next press will change the temperature in the opposite direction (e.g. DOWN).

Press-and-Hold

If a Temperature button is pressed and held when the temperature is flashing, the temperature will continue to change until the button is released. If only one temperature button is available and the limit of the Temperature Range is reached when the button is being held, the progression will reverse direction.

Dual Temperature Ranges

This system incorporates two temperature range settings with independent set temperatures. The High Range designated in the display by an "up" arrow, and the Low

Range designated in the display by a "down" arrow. These ranges can be used for various reasons, with a common use being a "ready to use" setting vs. a "vacation" setting.

The Ranges are chosen using the menu structure below. Each range maintains its own set temperature as programmed by the user. This way, when a range is chosen, the spa will heat to the set temperature associated with that range.

For example:

High Range may be set between 80°F - 104°F (26°-40°C).

Low Range may be set between 50°F - 99°F (10° - 26°C).

Freeze Protection is active in either range.

MODE - REST AND READY

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

If the primary 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 (indicated by a sideways **IR**) 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.

Circulation Mode

If the spa is configured for 24HR circulation, the primary pump generally runs continuously. Since the heater pump is always running, the spa will maintain set temperature and heat as needed in Ready Mode, without polling.

In **Rest Mode**, the spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in Circulation Mode.

Ready-in-Rest Mode

READY/REST (**R w/ a sideways IR**) appears in the display if the spa is in Rest Mode and "Jets" is pressed. It is assumed the spa is being used and will heat to 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.

SHOW & SET TIME OF DAY

Setting the time-of-day can be important for determining filtration times and other background features. When in the TIME menu, SET TIME will flash on the display if no time-of-day is set in the memory. 24-hour time display can be set under the PRFF menu.

Note: This note refers to systems that do not keep track of Time-of-Day when powered down. If power is interrupted to such a system, Time-of-Day is not stored. The system will still operate and all other user settings will be stored. If filter cycles are required to run at a particular time of day, resetting the clock will return the filter times to the actual programmed periods. When such a system starts up, it defaults to 12:00 Noon, so another way to get filter times back to normal is to start up the spa at noon on any given day. SET TIME will still flash in the TIME Menu until the time is actually set, but since the spa started at

noon, the filter cycles will run as programmed.

FLIP (INVERT DISPLAY)

From the main screen, press the Menu/Select repeatedly until FLIP appears in the LCD. Press the Temperature button so that FLIP appears inverted on the LCD. Press the menu button to return to the Main Screen and it will appear inverted.

RESTRICTING OPERATION

The control can be restricted to prevent unwanted use or temperature adjustments. Locking the panel prevents the controller from being used, but all automatic functions are still active. Locking the Temperature allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted. Temperature Lock allows access to a reduced selection of menu items. These include Set Temperature, FLIP, LOCK, UTIL, INFO, and FALT LOG.

LOCKING TEMPERATURE Press the Menu/ Select button repeatedly until LOCK appears in the LCD. Press the Temperature button until TEMP appears in the LCD. Then press the Temp button until ON appears. Press Menu/Select to set.

LOCKING PANEL Press the Menu/Select button repeatedly until LOCK appears in the LCD. Press the Temperature button. Then press the Menu/Select button until PANL appears. Press the Temp button until ON appears. Press Menu/Select to set.

UNLOCKING

This Unlock sequence may be used from any screen that may be displayed on a restricted

panel. While pressing and holding the Temperature button (or UP button if available), slowly press and release the Menu/Select button two times. "UNLK" will display on the screen and after a few seconds, will revert to main screen.

NOTE: If the panel has both an UP and a Down button, the ONLY button that will work in the Unlock Sequence is the UP button.

The temperature will not Unlock if the Unlock sequence is done while the panel is displaying "I OCK".

ADJUSTING FILTRATION

Main Filtration

Filter cycles are set using a start time and a duration. Start time is indicated by an "A" or "P" in the bottom right corner of the display. Duration has no "A" or "P" indication. Each setting can be adjusted in 15-minute increments. The panel calculates the end time and displays it automatically.

To enter filter cycles, press Menu/Select repeatedly until FLTR appears in the LCD (with a 1 on the right hand side). Press the temperature button until BEGN shows, and press the temperature button again until the LCD shows/flashes a start time. Use the temperature button to sets the start hour and press the menu/select button. The minutes will show/flash on the LCD. Use the temperature button to set the 15-minute increment, and press the Menu/Select button so set.

RUN will flash on the LCD, then HRS. Use the temperature button to set the Filter 1 length in hours, and press the Menu/Select button until the minutes on the clock are flashing.

Press the temperature button twice to set the 15-minute increment. Then press Menu/Select to set.

ground fault or other unsafe condition and the power to the spa must be shut off until a service person can correct the problem.

F1 will show on the LCD, then ENDS. Use the temperature button to set the end time.

Filter Cycle 2 - Optional Filtration

Filter Cycle 2 is OFF by default. Follow the same procedures under "FLTR" (with a 2 on the right hand side) to set up filter cycle 2.

It is possible to overlap Filter Cycle 1 and Filter Cycle 2, which will shorten overall filtration by the overlap amount.

Purge Cycles

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

If Filter Cycle 1 is set for 24 hours, enabling Filter Cycle 2 will initiate a purge when Filter Cycle 2 is programmed to begin.

GFCI TEST FEATURE

A GFCI is an important safety device and is required equipment on hot tub installations in North America. Your spa may be equipped with a GFCI Protection feature. (UL rated systems only). If your spa has this feature enabled by the manufacturer, the GFCI Trip Test must occur to allow proper spa function.

Within 7 days after startup, the spa will trip the GFCI to test it. The GFCI must be reset once it has tripped. After passing the GFCI Trip Test, any subsequent GFCI trips will indicate a

TP600 CONTROL PANEL



NOTE: The look of your topside control panel design and buttons will vary according to brand and features available on your spa. See table below for pictures and explanation of TP600 Control Panel button functions.

BUTTON	NAME	FUNCTION	MAIN MENUS
Pop	Jets 1	Activates jets on	NAVIGATION
Ser L	Jets 2	low or high setting	Navigating the entire menu structure is done with 3 buttons on the control panel:
(%)°°°	Blower	Activates blower	Temperature Up, Temperature Down and Light buttons.
			Panels have separate WARM (Up) and COOL
	Temperature	Increases	(down) buttons which are used to increase or
()	Up	temperature	decrease the temperature. These buttons are
		and allows for	also used to navigate through menus.
		navigation	The LIGHT button is used to activate spa lights
		through system	and is also used to choose various menus to
			navigate each section.
	Temperature	Decreases	Typical use of the Temperature buttons allows
	Down	temperature	changing the Set Temperature while the
		and allows for	numbers are flashing in the LCD screen.
		navigation	Numbers will begin flashing when either one
		through system	of the temperature buttons are pressed.
			Pressing the LIGHT button while the numbers
	Light	Activates lights	are flashing will take you to the menus.
		and chooses	The menus can be exited with certain button
		menus to navigate	presses. Simply waiting for approximately 10
		through system	seconds will return the panel operation to
			normal.

FILLING YOUR SPA

PREPARATION AND FILLING

Fill the spa 5-6" (13-15cm) below the lip of the spa. 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.

PRIMING MODE

This mode will last 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed. Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically return to normal heating and filtering at the end of the priming mode. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow/no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by pushing the "Jet" buttons. If the spa has a Circ Pump, it can be activated by pressing the "Light" button during Priming Mode.

PRIMING THE PUMPS

After the display has gone through start up screens: "RUN" "PMPS" "PURG" "AIR" "-----", push "Jet" button once to start Pump 1 in low-speed and again to switch to high-speed. Push the Pump 2 button (if you have a 2nd pump) to turn it on. The pumps will not be running in high-speed to facilitate priming. If the pumps have not primed after 2 minutes, and water is not flowing from the jets in the spa, turn off the pumps and repeat. NOTE: Turning the power off/on again will initiate a new pump priming session. Sometimes turning the pump off/on helps it to prime. If the pumps will not prime after 5 times, turn power off and call for service.

IMPORTANT: A pump should not be allowed to run 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

Manually exit Priming Mode by pressing either Temperature button. If you do not manually exit the priming mode, it 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 panel will momentarily display the set temperature but the display will not show the temperature yet because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it accurately.

SPA BEHAVIOR

Pumps

Press the "Jets 1" button once to turn pump 1 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. The pump 1 low-speed will time out after 30 minutes. The high-speed will time out after 30 minutes. On non-circ systems, the low-speed of pump 1 runs when the blower or any other pump is on. If the spa is in Ready Mode, Pump 1 low may also activate for at least 1 minute every 30 minutes to detect the spa temperature and then to heat to the set temperature if needed. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.

Circulation Pump Modes

The circ pump (if your spa is equipped with one) operates 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 very hot climates).

Filtration and Ozone

On non-circ systems, Pump 1 low and the ozone generator will run during filtration. On circ systems, the ozone will run with the circ pump.

The system is factory-programmed with one filter cycle that will run in the evening (assuming the time-of-day is properly set) when energy rates are often lower. The filter time and duration are programmable. A second filter cycle can be enabled as needed. At the start of each filter cycle, the blower (if there is one) or Pump 2 (if there is one) will run briefly to purge its plumbing to maintain good water quality.

Freeze Protection

If the temperature sensors within the heater detect a low enough temperature, the pump(s) and the blower automatically activate to provide freeze protection. The pump(s) and blower will run either continuously or periodically depending on conditions.

In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

Clean-up Cycle (optional)

When a pump or blower is turned off by a button press or after it has timed out for

30 minutes, a clean-up cycle runs for 30 minutes. Pump 1 on Low Speed and the ozone generator will run for the set time. The pump and the ozone generator will run for 30 minutes or more, depending on the system. On some systems, you can change this setting.

TEMPERATURE & TEMP RANGE

Adjusting the Set Temperature

Pressing Up or Down temperature buttons 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 spa will heat to the new set temperature.

Press-and-Hold

If a Temperature button is pressed and held when the temperature is flashing, the temperature will continue to change until the button is released.

Dual Temperature Ranges

This system incorporates two temperature range settings with independent set temperatures. The High Range designated in the display by an "up" arrow, and the Low Range designated in the display by a "down" arrow. These ranges can be used for various reasons, with a common use being a "ready to use" setting vs. a "vacation" setting.

The Ranges are chosen using the menu

structure below. Each range maintains its own set temperature as programmed by the user. This way, when a range is chosen, the spa will heat to the set temperature associated with that range.

For example:

High Range may be set 80°F - 104°F (26°-40°C). Low Range may be set 50°F - 99°F (10°-26°C). Freeze Protection is active in either range.

MODE - REST AND READY

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 will circulate water every 1/2 hour, 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 will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the heater pump has been running for a minute or two.

Circulation Mode

If the spa is configured for 24HR circulation, the heater pump generally runs continuously. Since the heater pump is always running, the spa will maintain set temperature and heat as needed in Ready Mode, without polling. In Rest Mode, the spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in Circulation Mode.

Ready-in-Rest Mode

READY/REST appears in the display if the spa is in Rest Mode and Jet 1 is pressed. It is assumed the spa is being used and will heat to set temperature. While Pump 1 High can be turned on and off, Pump 1 Low 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 it.

SWITCHING FROM READY TO REST MODE

From the screen, press a temp. button until temperature flashes. While flashing, press Light repeatedly until MODE appears on screen. Use a temperature button to move to the next mode. Press Light to select.

SHOW & SET TIME OF DAY

Setting the time-of-day can be important for determining filtration times and other background features. From the main menu, activate the temperature flashing. While the temperature is flashing, press "Light" repeatedly until "TIME" is displayed on the screen. Proceed to set current time using the up and down temperature buttons. When in the TIME menu, SET TIME will flash on the display if no time-of-day is set in the memory. 24-hour time display can be set under the PREF menu.

Note: If power is interrupted to the system, Time-of-Day is not stored. The system will still operate and all other user settings will be stored. If filter cycles are required to run at a particular time of day, resetting the clock will return the filter times to the actual programmed periods. When the system starts up, it defaults to 12:00 Noon, so another way to get filter times back to normal is to start up the spa at noon on any given day. SET TIME will still flash in the TIME Menu until the time is actually set, but since the spa started at noon, the filter cycles will run as programmed.

FLIP (INVERT DISPLAY)

From the main screen, activate the temperature flashing. While the temperature is flashing, press "Light" repeatedly until "FLIP" is displayed on the screen. While "FLIP" is displayed, press either the up or down temperature button to invert the screen.

Follow the same procedures to flip it back.

RESTRICTING OPERATION

The control can be restricted to prevent unwanted use or temperature adjustments. From the main screen, activate temperature flashing. While temperature is flashing, press "Light" repeatedly until "LOCK" appears on the screen. Pressing the temperature up button allows you to toggle through "TEMP", "OFF" and "ON".

"TEMP" allows you to lock the temp./settings.
"ON" allows you to lock all settings/functions.
"OFF" does not lock the spa.

UNLOCKING

This Unlock sequence may be used from any screen that may be displayed on a restricted panel. While pressing and holding the Temperature Up button, slowly press the Light button twice. "UNLK" will display on the screen and after a few seconds, will revert to main screen.

ADJUSTING FILTRATION

Main Filtration

Filter cycles are set using a start time and a duration. Start time is indicated by an "A" or "P" in the bottom right corner of the display. Duration has no "A" or "P" indication. Each setting can be adjusted in 15-minute increments. The panel calculates the end time and displays

it automatically.

To enter filter cycles, activate temperature flashing and press the "Light" button repeatedly until the display reads "FLTR" (with a 1 in the bottom right corner). Pressing the Light button will bring you to the display "BEGN". The numbers flashing indicate numbers that can be changed. Scroll through with the up and down temperature buttons to choose what time your filter cycle will start and press the Light button to make your choice. "RUN" "HRS" will be on the display next. Again, scroll through the numbers to choose the duration of your filter cycle.

Filter Cycle 2 - Optional Filtration

Follow the same procedures under "FLTR" (with a 2 in the bottom right corner) to set up filter cycle 2.

It is possible to overlap Filter Cycle 1 and Filter Cycle 2, which will shorten overall filtration by the overlap amount.

Purge Cycles

In order to maintain sanitary conditions, secondary Pumps and/or a Blower will purge water from their respective plumbing by running briefly at the beginning of each filter cycle. If Filter Cycle 1 is set for 24 hours, enabling Filter Cycle 2 will initiate a purge when Filter Cycle 2 is programmed to begin.

GFCI TEST FEATURE

A GFCI is an important safety device and is required equipment on hot tub installations in North America. Your spa may be equipped with a GFCI Protection feature. If so, a GFCI Trip Test must occur to allow proper spa function. Within 7 days after startup, the spa will trip the GFCI to test it. The GFCI must be reset once it has tripped. After passing the GFCI Trip Test, the spa will operate normally.

BLUETOOTH CONNECTION BASICS

Spas purchased with a factory-installed Bluetooth Audio System option come equipped with a built in amplifier, BlueTooth (BT) receiver and subwoofer to allow you to stream your favorite audio source through the spa's sound system.

Bluetooth Audio System Option CAUTION: Audio/Cell Phone/Portable Electronic Devices.

Many consumers own some form of portable electronic device, and some spas come equipped with systems designed to interface with these devices. It is important to protect a spa's audio equipment and your portable electronics by following a few simple procedures:

- Always turn the volume down on your portable electronic device before connecting it to the spa audio system.
- Do not attempt to handle any portable electronic device with wet hands.
- Inspect any area for moisture before setting your portable electronic device in or on it.
- Because of the temperature differential between the warm spa cabinet interior and cooler surroundings outside, moisture is a distinct possibility inside built-in docks. Be sure to wipe these areas out with a dry cloth before connecting any portable electronic device, and do not leave the device inside the dock after exiting the spa.
- Water-resistant covers are available for many popular cell phones and portable music players. These covers are a wise investment for individuals who regularly use their portable electronic devices near hot tubs.
- CAUTION: Risk of Electric Shock. Do not leave compartment door open.

- CAUTION: Rise of Electric Shock. Replace components only with identical components.
- WARNING: Prevent Electrocution. Do not connect any auxiliary components (for example, cable, additional speakers, headphones, additional audio/video components, etc.) to the system.
- These units are not provided with an outdoor antennae; if provided, it should be installed in accordance with Article 810 of the National Electrical Code.
- 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 service personnel.
- When the power supply connections or power supply cord(s) are damaged; if water is entering the audio/video compartment or any 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 personnel.
- This unit should be subjected to periodic routine maintenance (for example, once every 3 months) to make sure that the unit is operating properly.

FOR A COMPLETE LIST OF INSTRUCTIONS ON CONNECTING TO YOUR BLUETOOTH AUDIO SYSTEM, REFERENCE THE SEPARATE AUDIO SET-UP GUIDE.

WIFI CONNECTIVITY

Some hot tubs can be equipped with optional WiFi connectivity to allow you to control the spa via a smart phone and an app.

For more information regarding WiFi, contact your local dealer or visit https://www.balboawatergroup.com/ControlMySpa for more info.



SPA SOAKING & EXERCISE GUIDELINES

- 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.
- People with skin, ear; genital, or other body infections, open sores or wound should not use the swim spa because of the possibility of spreading infection.
- 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 risk of 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.
- Before you begin training using your swim spa, please:
 - A. Ensure that the water is at a safe temperature for strenuous exercise
 - 83° 86°F
 - 28.5° 30°C
 - Any temperature higher or lower only under supervision of physician.

- B. To maximize flow, turn off all non-swim jets by rotating their outer ring clockwise.
- C. Set the Cascade (fountain) jets to their lowest level using the large diverter valve located at the end of the swim vessel.
- D. Notify a responsible adult of your location and how long you intend to exercise.
- 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.
- 7. 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 of sitting. If you have any questions about what is right for you, your family, or other guests, consult your doctor.

Never use the swim spa to swim, jog or exercise in hot water. Recommended water temperature for swimming and exercising is 83°F - 86°F (28.5°C - 30°C).

- 8. Never use the swim spa while under the influence of alcohol or drugs.
- 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. A responsible adult should check on you as you exercise. 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 regiment, 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 connect the attachment device incorrectly or should a band slip or break.
- 15. Never leave exercise equipment or other objects in swim spa when finished. 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 exrecise, 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.
- 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 continous splashing during exercise. Whenever using resistance 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 teh swim spa causing possible injury.

24. Swim Spa Quick Training Guide:

- 1. To begin your workout, press each Jets button until you reach your deired swim velocity.
- 2. Warm up using the lower speeds
- 3. Raise the swim velocity with additional presses of the Jets buttons (Jets 1, Jets 2, Jets 3)
- 4. To lower the swim velocity, press the Jets buttons, turning them off until you reach the desired speed / jet pump combination
- 5. For your safety, the swim jets will automatically shut off after thirty minutes of opearation. To swim longer, repeat steps 3 4 above as desired.
- 6. When finished swimming, be sure to turn the non-swim jets back on by rotating their outer ring counterclockwise. Leaving the non-swim jets closed prevents optimal heating and filtration.

25. Be safe, be healthy, have fun!

EQUIPMENT SAFETY FEATURES

AUTOMATIC TIME OUTS

Your 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:

Accessory	Mode	Shuts off in
Pump 1	Low	2 hours
Pump 1	High	30 minutes
Pump 2	High	30 minutes
Pump 3	High	30 minutes
Blower		30 minutes
Lights		1 hour

Common LCD Equipment Safety Messages

The following table describes the most common messages, possible causes, and corrective actions you may need to take:

If the LCD displays	Indicates	What happens	Possible cause	Corrective Action
-ОНН	Overheat - one	Spa heater will	- Low speed pump	- Make sure slice valves
-HH	of the sensors	automatically	operating for an ex-	are open
-HTR TOO	has detected	shut down until	tended period of time	- Reprogram to ensure
HOT	water tempera-	temperature falls	- Programming error	time cycles not
-The heater	ture of 118°F+	below 108°F+ (42°C+)	causing continuous	overlapping
is too hot	(48°C+) inside		filtering	- Contact dealer if
	the heater		- Faulty Pump	problem persists
-OHS	Overheat	Spa heater will	- Low speed pump	- Open all jets
- DH	- One sensor	automatically shut	operating for an	- Make sure slice valves
-WATR TOO	has detected	down until	extended period of	are open
HOT	temperature of	temperature falls be-	time	- Reprogram to ensure
-The water	spa water	low 108°F+ (42°C+)	- Programming error	time cycles not
is too hot	entering heater		causing continuous	overlapping
	to be 110°F+		filtering	- Contact dealer if
	(43°C+)			problem persists
-HFL	Heater flow	Heater will shut down	- Plugged filter	- Open all jets
-HL	problem	while spa continues	- Low water	- Remove filter and clean
-HTR FLOW		to function normally		- Add water
L0ZZ				- Contact dealer
-The water				- Open all jets
flow is low				

If LCD displays	Indicates	What happens	Possible cause	Corrective Action
-LF	Water flow	Heater will shut down	- Plugged filter	- Remove filter and
-LF	problem	while spa continues	- Low water	clean
-HTR FLOW	- Persistent	to function normally		- Add water
FAIL	flow problem			- Contact dealer
- The water flow				- Open all jets
has failed				
-drY	Lack of water	Heater will shut down	- Slice valve closed	- Add water
- d y	to the heater	while spa continues	- Blocked suction	- Contact dealer
-HTR DRY		to function normally	return/filter/skimmer	- Open all jets/valves
- Heater is dry				- Remove blockage
-dr	Lack of water	Heater will shut down	- Slice valve closed	- Add Water
-dr	to the heater	while spa continues	- Blocked suction	- Open all jets/valves
-HTR MAY BE		to function normally	return/filter/skimmer	- Remove blockage
DRYWAIT				
- Heater may				
be dry				
- SnT or SnH	Heater sensor	Spa automatically	- Non-functioning	- Contact dealer for
-SA or Sb	A or B not	deactivated	sensor	replacement sensor
-SNSR A-CALL	functioning			
FOR SRVCB				
- Sensor A fault,				
Sensor B fault				
-SnS	Heater	Spa automatically	- Non-functioning	- Contact dealer
-2n	sensors are	deactivated	sensor	
-SNZR SZNC-	out of			
CALL FOR	balance			
SRVC				
- Sensors are out				
of sync				

COMMON LCD MESSAGES

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

Message	What it is	What it means
Pr -OR- RUN/ PMPS/PURG/AIR/	Priming mode	Spa is in normal Priming Mode operation
SLP	Sleep mode	Spa is in normal Sleep Mode operation
ECN	Economy mode	Spa is in normal Economy Mode operation
STD	Standard mode	Spa is in normal Standard Mode operation
ICE -OR- TOO COLD	Freeze condition	Heater will come on to keep water above 45°F
	Water temperature	Current water temperature not measured
WATR TOO HOT	Water temperature	Spa water is too hot, functions disabled
		<u></u>

MAINTENANCE

Cleaning and user maintenance shall not be made by children without supervision.

WATER CHEMISTRY

Water chemistry is critical in a spa system. Chemicals are used to sanitize the water and control the pH balance. The combination of 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, from your dealer.

SANITIZING

Sanitizing the water destroys harmful organisms and keeps your spa healthy and safe. Three commonly used spa sanitizing or oxidizing agents are bromine, chlorine and ozone. Chlorine or bromine are chemicals that you add to the water. Ozone is a gas that is produced by an ozonator 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 spa water periodically and after heavy use. This addition of substantial amounts of sanitizer superchlorinates 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 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 spa equipment.

Caution: Never mix two chemicals together. **Caution: Never** store chemicals in the equipment compartment.

Caution: Do not use muriatic acid or Trichlor (pool chlorine) to balance pH as they will damage your spa surface and equipment.

Recommended Levels

pH: 7.2–7.6
(Ideal 7.4–7.6)

Sanitizer 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.

WARNING - This appliance contains a UV emitter. Do not stare at the light source.

Water maintenance with the Ozone or UV Water Treatment System Equipping your spa with an Ozone system

that includes the Ozonator or UV Sanitizer is a smart decision. The use of ozone in

conjunction with spa sanitizing and water balancing chemicals helps to provide you with a cleaner, healthier spa, reduces chemical usage, and protects your skin from chemically induced irritation.

NOTE: The plastic material used in the UV Sanitizer is UV resistant.

SANITIZING WITH OZONE

Spas vary in size, and frequency and conditions of use. For this reason 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 spa should run and be ozonated a minimum of four hours per day (minimum of six hours per day for a swim spa) during which time ozone will be mixed into the water. If your spa is heavily used, this run time should be increased. Your spa produces ozone during the filtration cycles. 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 spa with large amounts of sanitizer.

NOTE: Extra filtration can be provided by manually starting a clean-up cycle. Turn Pump 1 on low speed. The pump will operate for an extended period 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 or Ready mode.

SPECIALTY CHEMICALS

While ozone and UV may significantly reduce the usage of specialty chemicals (chlorine and

bromine), they are 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 spa water.

DRAINING YOUR SPA

NOTE: Always turn the circuit breaker off when you drain your 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 spa and cannot be filtered out.

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

All spas are equipped with external drains. The external drain is used for draining the spa.

NOTE: The drain on the 982 is located inside the cabinet of the spa.

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

The **external** drain valve is located at the base of the spa below the side panel, usually on the front left corner of the spa. Remove the outer black cap and connect a garden hose to the fitting. Turn the ring on the back of the valve counter-clockwise until it stops, then pull out to open the valve. Water will begin to flow. When flow stops, push in the valve, turn ring clockwise until it stops, remove hose and replace the cap.

NOTE: Do NOT attempt to use the pump to drain the spa.

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

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

FILTER MAINTENANCE

NOTE: It is not necessary to drain the spa in order to clean the filter.

The removable filter cartridge is located in the filter canister behind the skimmer. The filter should be inspected/cleaned monthly during normal use, and more often when spa use is heavy.

Your filtration system may also include a First Filter, an additional filter that is placed on top of the skimmer basket and pressed into place. This filter aids the collection of microscopic organic matter, debris, hair, soap residue and body oils. To clean this filter, remove, rinse or soak in cartridge cleaner as directed, and reinstall. When First Filter is no longer white after cleaning, replace with a new filter. These can be purchased from your dealer.

Keep the filter cartridge clean! Clean the filter cartridge at least once every 90 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 spa filter area.
- 3. Remove strainer basket
- 4. Remove filter cartridge from the filter canister

- by grasping the top and lifting upwards. Some filters are threaded on.
- Soak filter in a commercial filter cleaner/ degreaser, available from your local dealer, per manufacturer's instructions. Hose out filter cartridge or replace with new cartridge, if needed.
- 6. Place filter cartridge back into filter canister. When the spa is empty, the weir door may block the filter canister. You must hold it out of the way when reinstalling the cartridge. When the spa is full, the door will float so you will have easy access for installing the filter cartridge
- 7. Replace strainer basket and skimmer lid.
- 8. Turn the pump ON.

Replacing the filter cartridge annually is recommended (semi-annually for swim spas) 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 spa and equipment due to freezing. If you plan on using your spa during cold months, be sure your pump and heater are in good working order. The spa shell has been insulated to provide efficient operation in cold weather areas.

NOTE: If you elect not to drain your spa and the temperature is going to be below freezing for extended periods of time, it is best to operate the spa heater at the maximum high temperature, 104°F (40°C), especially if there is a power outage threat. This will help keep the spa water from freezing if you have a power failure. If you do not intend to use your spa during the winter months and there is danger of freezing, use the following steps to winterize your spa:

- 1. Turn off all electrical power to the spa.
- Drain spa and hoses of all water using the directions for Draining Your Spa.
 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, contact your dealer for advice.

NOTE: Prior to refilling the spa, drain all antifreeze from spa and hoses using the instructions for Draining Your Spa. Carefully monitor chemicals until all antifreeze residue has dissipated.

- 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 spa as directed in the following two sections on this page.
- 6. Cover your spa with a water-shedding, impenetrable cover.
- 7. For further information on blowing out the plumbing lines and winterizing procedures, contact your local dealer.

SPA CABINET CARE

The cabinets are made of a high quality alternative to wood that is virtually maintenance free, requiring no staining, sealing, or waxing. To clean the 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.

Never use abrasive cleaners.

SPA SURFACE CARE AND CLEANING

Your spa shell surface is made of acrylic. A minimum amount of care and cleaning will keep your spa looking new for years. Use a spa cleaner for residue and lime build-up at the water level of the spa surface. It may be necessary to lower the water level 5-7 cm (2-3") before cleaning to avoid polluting the spa. Cleaner can be applied to the acrylic surface with a soft cloth and wiped clean. Use a non-abrasive household cleaner to clean your spa shell or use a mild dishwashing detergent, such as Ivory®Liquid. Rinse well and dry with a clean cloth.

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

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

Protect Spa Finish - always keep cover on the spa when not in use.

LIGHT BULBS

The Spa light bulb is serviceable from the spa cabinet. Remove the side panel and insulation closest to the light; locate the bracket that holds the bulb. Turn the black bulb holder 90 degrees counter-clockwise. Pull bulb straight out and replace. Insert bulb holder back into bracket and turn 90 degrees clock-wise to secure.

Light Color	Status	Meaning
Blue	Solid (Not Blinking)	All is OK. No action required.
Blue	Blinking	An item on the control panel needs attention.
Red	Solid (Not Blinking)	Do not use spa. Check for freezing or flow obstruction(s).
Red	Blinking	Do not use spa. Contact your dealer for guidance.

SPA STATUS INDICATOR LIGHT

The Spa Status Indicator Light is a standard feature on all 400 - 900 series models. This exterior feature will allow you to check the status of your hot tub in just a glance without opening the cover or app. It simply changes color from blue to red or flashes blue or red with corresponding error codes.

COMMON WATER PROBLEMS

Problem	Usual Cause	Solution
Cloudy Water	 Inadequate filtration/ dirty filter Excessive oils/organic matter Improper sanitation/ bacteria High pH and/or high alkalinity 	 Check to make sure the filter is running properly; clean filter with a filter cleaner of degreaser Shock the spa with a chlorine or bromine sanitizer, or other shock treatment product Increase sanitizer level to balance water and shock if needed Adjust pH; add appropriate sodium bisulfate product Use clarifier NOTE: If using an ozone generator, consult with your dealer before using polymer based clarifiers Depending on the severity, drain the spa completely, clean and refill
Water Odor	 Excessive organics or chloramines; insufficient free available sanitizer Improper sanitation Inadequate filtration Low pH 	 Shock the spa with a chlorine or bromine sanitizer/shock, or other shock treatment product Increase sanitizer level to balance water; shock if needed Check to make sure the filter is running properly; clean filter with a filter cleaner or degreaser Raise pH with sodium bicarbonate product. If metals are present, add chelating agent.
Chlorine Odor	- Too many chloramines/ insufficient free available chlorine - Low pH	 Shock the spa with a chlorine available chlorine sanitizer/shock, or non-chlorine shock treatment Adjust pH; raise pH with sodium bicarbonate product
Bromine Odor/ Yellow Water	- Low pH	- Adjust pH; raise pH with sodium bicarbonate product

Problem	Usual Cause	Solution
Musty Odor	- Bacterial or algae growth	- Shock spa with a chlorine or bromine sanitizer/ shock, of equivalent shock treatment product. If problem is visible, drain, clean, refill and balance spa
Foaming/ Scum Ring Around the tub	- Build up of body oils, lotion and chemicals resulting from soap or detergent	- Skim foam off using your leaf net or drain and refill
Algae	pH ImbalanceLow free chlorine or bromine	- Adjust pH - Shock with a chlorine of bromine
Eye Irritation	Low pHInsufficient free available chlorine	 Raise pH with sodium bicarbonate product Shock with a chlorine sanitizer/shock or other shock treatment product
Skin Irritation/ Rash	- Unsanitary/polluted water- Soaking too long- Chemicals not balanced, excessive ozone	 Keep recommended sanitizer residual at all times; superchlorinate or use a non-chlorine shock treatment Soak for smaller intervals, such as 15 minutes Correct chemical imbalance
Scale	 Too much calcium dissolved in water pH and total alkalinity too high 	 Add a scale control product. Adjust total alkalinity and pH levels by adding the appropriate sodium bisulfate product; for concentrated scale deposits Drain spa, scrub the scale off, refill the spa and balance the water
Erratic pH Test Results/Unusual pH Test Color	- Sanitizer level too high - Old pH indicator dye	- Test the pH, when the sanitizer level is below 5 ppm - Replace the pH indicator dye

Problem	Usual Cause	Solution
Sanitizer Dissipating Too Rapidly	 Excessive organics in water Temperature too high Low pH Low pH corrosion of metal fixtures Low calcium hardness Low total alkalinity 	 Increase shock dosage; add sanitizer; shower before entering spa Reduce temperature Raise pH with sodium bicarbonate product Use chelating agent if metals are present. Keep proper pH level (7.2 to 7.6). Use chelating agent if metals are present. Maintain minimum 150-200 ppm calcium hardness Use chelating agent if metals are present. Maintain proper alkalinity for type of sanitizer used.

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 spa with ozone. Contact your dealer for further information regarding chemical control issues.

COMMON HARDWARE PROBLEMS

Problem	Usual Cause	Solution
System not operating	- House circuit breaker tripped or in OFF position	- Reset circuit breaker on house breaker panel
Heater not operating	 Water level too low Heater mode not selected No power to heater Heater not operating Jets are closed 	 Add water to reach 6" (15.5cm) below top lip of spa Open all jets Refer to temperature/heater functioning. Check house circuit breaker Contact dealer
Water not clean	 Clogged or blocked floor suction or skimmer Filter clogged (dirty) Poor water chemistry Insufficient filtering time Improper maintenance High content of solids in water 	 Clean floor suction/skimmer. Remove blockage Clean or replace See Maintenance section Run filtration mode longer Contact dealer Use clarifier or drain and refill spa
Abnormal water usage	- Excessive evaporation and/or splashing	- Use spa cover and refill as necessary
Overheating	- High ambient temperature	- Contact dealer
Low water flow from jets	 Operating in FILTER mode-low speed Clogged or blocked suction or skimmer Dirty filter Jets in OFF position Slice valves closed 	 Select hi-speed jets Clean floor suction/skimmer. Remove blockage Clean or replace Open jets Contact dealer
Noisy pump and motor	Clogged floor suction or skimmerLow water levelDamaged or worn motor bearings	- Clean floor suction/skimmer - Add water to normal water level (6" or 15.5 cm below lip) - Contact dealer

Problem	Usual Cause	Solution
No water flow from jets	 Pump not primed Adjustable jets turned off House circuit breaker tripped, no power to system Faulty pump or motor Pump surges Slice valves closed 	 See Priming section Turn on jets Reset circuit breaker at house panel Low water. Check level on Weir door Contact dealer
Water leakage from under spa	- Check unions & drain hoses	- Close or tighten as necessary
No air flow from jets	- Air control not open- Jet nozzle not seated properly- Jet nozzle missing	 Open control - Check jet nozzles Inspect jets and replace as needed
Motor will not operate	 House circuit breaker tripped or in OFF position Improper or defective wiring or electrical supply Thermal Overload Protection switch tripped 	 Reset circuit breaker Contact dealer Auto reset after motor has cooled. Contact dealer if motor continues to cycle
Black powder film around water line	- Wearing in of turbo/blower brushes	- Will disappear after use
The spa will not shut off	- Spa trying to heat - Spa is in filter cycle - Spa is in Standard or Ready Mode	- Check 'Set Temperature' in Standard Mode - Normal. No need to change - Check mode setting

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, 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. 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 Corp.'s knowledge. However, MAAX Spas Industries Corp. 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 variable percentage of actual size.

Congratulations on your purchase of a MAAX $^\circ$ Spas product. 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 Purchases	:	
Purchased From	:	
Phone Number	:	
Installed By	:	
Serial Number	:	Model :

NOTES	