Pre-Delivery Guide

How to make delivery and installation of your
New Spa and Swim Spa fast, easy and trouble-free

SPA AND SWIM SPA **SET-UP GUIDELINES**

GETTING READY FOR DELIVERY AND SET-UP OF YOUR SPA

This a checklist of CUSTOMER REQUIREMENTS AND RESPONSIBILITIES necessary for delivery and set-up of your new spa or swim spa.

- Proximity to dressing room and bathrooms
- Storage for spa and swim spa chemicals
- Local building codes (if applicable)
- Power cable
- Clearance Access: In order to better service your spa or swim spa, clearance for access to spa or swim spa must be 38 inches (92cm) at equipment compart ment and 24 inches (61cm) around the remaining area.

GENERAL CONSIDERATION FOR INDOOR INSTALLATION

Installing your spa or swim spa indoors creates an extremely different set of considerations.
Here again, with proper planning, no matter what room your spa or swim spa goes in, it will be your favorite room.

- Work with your spa or swim spa dealer and contractor to insure all local building, electrical and plumbing codes are met.
- Plan for a floor drain to drain off excess water or for draining and cleaning your spa or swim spa.
- A ventilation fan may be necessary due to high humidity created by your spa or swim spa.
- Finished material in your spa or swim spa room should also be capable of withstanding increased humidity.
- Excess Water: Normal use of the spa causes large amounts of water to splash out of the unit. Depending on the specific installation, additional provisions may have to be made for proper removal of water.

DELIVERY AND SET-UP

1. The time required to set up your spa or swim spa varies due to the complexity of each set-up. However 1 to 1 1/2 hours is usually the time required.

2. It is impossible for us to generate an exact arrival time. All deliveries and set-ups are timed approximately on delivery days by mornings or afternoons.

3. All spas must be paid in full prior to or at time of delivery, either by certified check, check, credit card or completed finance contract.

SPA AND SWIM SPA **ACCESS & SURFACE REQUIREMENTS**

ACCESS REQUIREMENTS:

1. All portable spas require 48" of clearance through gate, between house and side fences, around corners and 10 feet of overhead clearance on level ground.

2. If we attempt to deliver and discover that a crane is necessary, or the yard is not fully prepared, there will be a charge on the second delivery, or waiting time. Customer pays for the crane services. Any crane delivery is the customers responsibility.

3. Swim Spas may result in additional delivery / installation charges. **Swim Spas will require crane service.**

4. All debris limiting or blocking access or on the set-up location, must be removed prior to delivery.

5. Delivery crew does not trim trees or bushes, remove debris or perform the general maintenance in order to set up spa.

Surface and Pad Requirments

1. All spas must be set on a **SOLID** flat foundation; we recommend a thick 3" (5" thick for swim spas) concrete slab. **All other foundations should be approved by a qualified contractor or engineer before use to insure warranties.**

2. Any spa with water is very heavy, if the spa is placed on flooring or decking, be sure the structure is strong enough to support the weight. The necessary support should be at least 85 pounds per square foot.

3. In order to better service your spa, clearance for access to must be 38" (92cm) at equipment compartment and 24" (61cm) around the remaining area.

4. Position your spa so you can view the spa from your house.

IMPROPER INSTALLATION MAY RESULT IN EQUIPMENT DAMAGE AND WILL VOID THE WARRANTY, YOUR SPA MUST BE PLACED ON A FLAT SURFACE.

STORING CHEMICALS INSIDE YOUR SPA CABINET WILL VOID THE WARRANTY.

ELECTRICAL REQUIREMENTS:

1. ALL spa packs REQUIRE an ISOLATED: DEDICATED circuit. No other appliances or lights on this circuit at any time.

2. NO EXTENSION CORDS are to be used in conjunction with the operation of the spa. Low voltage damage could result, which is not covered by the warranty. All electrical must meet any local electrical codes.

3. All spas are required to be installed by a licensed electrician. OUR DELIVERY CREW DOES NOT CONNECT 110 VOLT OR 220 VOLT equipment packages. If you have any questions have your circuit checked by a qualified, licensed electrician.

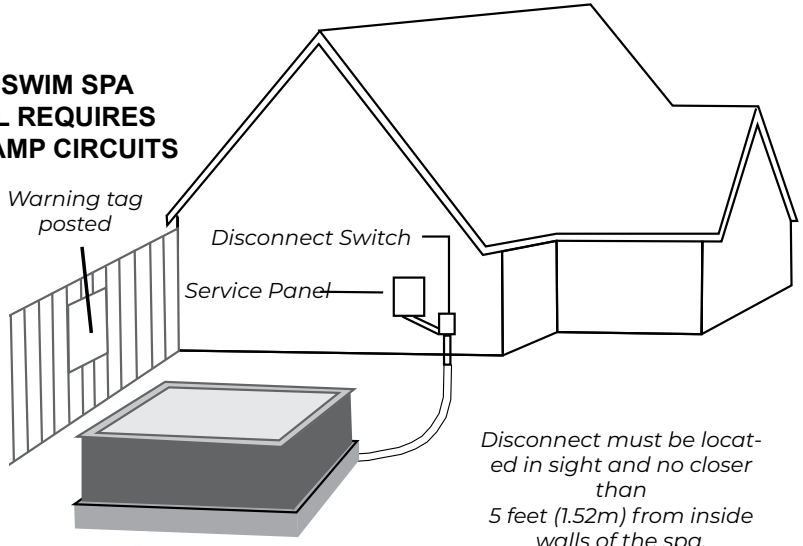
4. All 110 Volt, 1.5 KW, packs require a minimal 15 AMP dedicated outlet.

5. All 220 Volt, 4.0 KW, equipment packs must use four approved gauge wires, directly into a 60-AMP double pole, single-throw breaker, GFCI directly hard-wired to equipment.

6. All 220 Volt swim spa pack will require a double pole 60 amp dedicated GFCI (unless noted for your setup), ground fault circuit breaker. **The 19' Swim Spa requires 2 (TWO) 60AMP Circuits**

If you have any doubts, have your electrical system checked by a licensed electrician.
NOTE: Maximum footage on this electrical run should not exceed 100 ft. Approved gauge wire is needed over 100 feet of electrical run.

NOTICE: 19' SWIM SPA ELECTRICAL REQUIRES 2 (TWO) 60 AMP CIRCUITS



⚠ NOTE!

It is the customer's responsibility to acquire necessary permits and to arrange for installation and hook up of the electrical power by a licensed electrician.

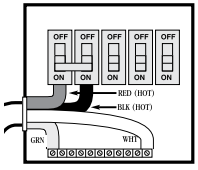
220V WIRING REQUIREMENTS:

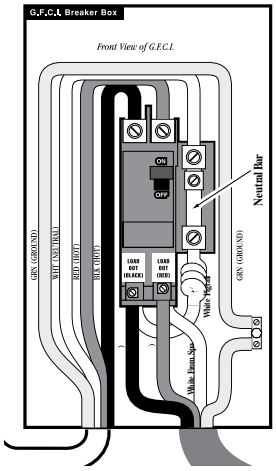
Wiring Requirements
- 2-Hots, 1-Neutral, 1-Isolated Ground
- 0-40' length, 4 Wire #6 AWG minimum 75˚C copper conductor
- Over 40' length, 4 Wire #6 AWG minimum 75˚C copper conductor

(Check your local electrical codes for 60 Amp GFCI circuits for correct wire size for some areas vary)

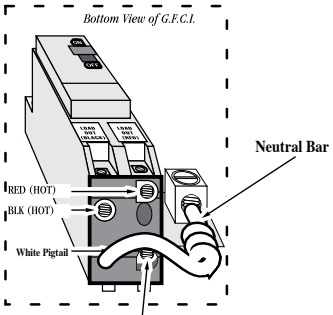
Factory Recommended G.F.C.I. Load Center Wiring

Note: The white neutral wire from the back of the GFCI MUST be connected to an incoming line neutral. The internal mechanism of the GFCI requires this neutral connection. The GFCI will not work without it.





To: Spa



(White Wire To the Spa)

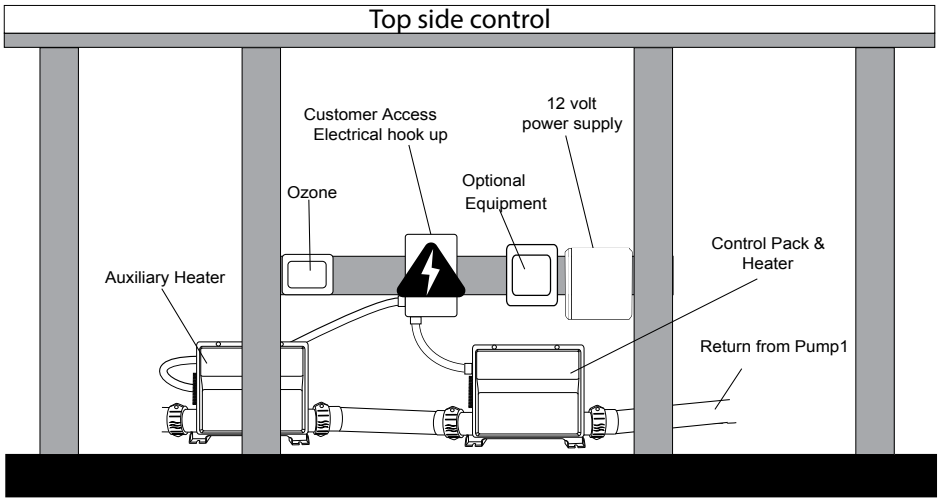
110V WIRING REQUIREMENTS:

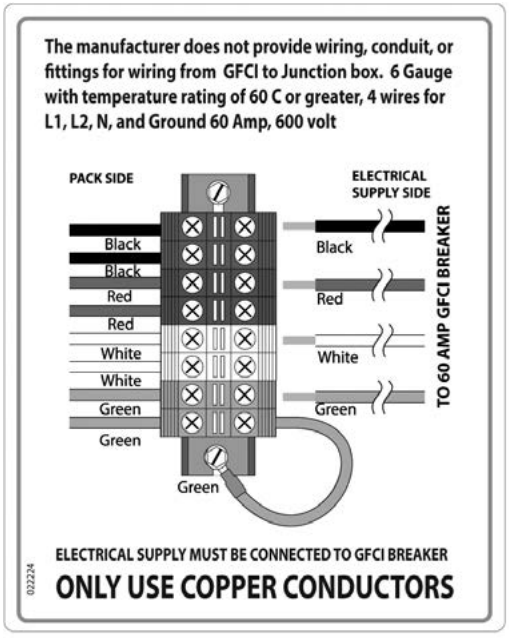
(For 110V units with a GFCI)

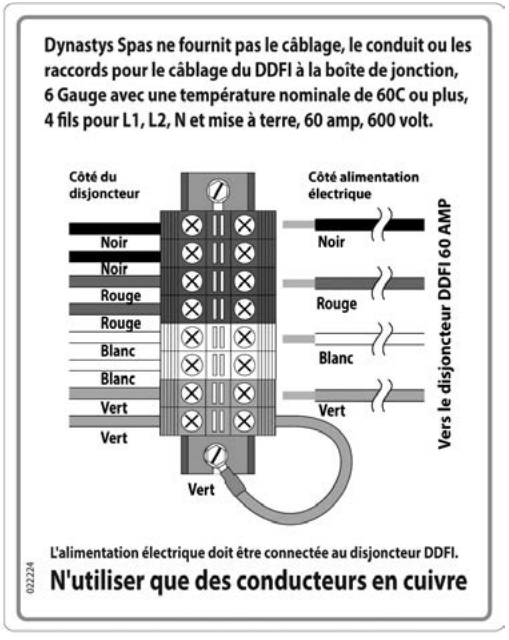
WARNING – This product is provided with a ground-fault circuit-interrupter (give location). The GFCI must be tested before each use. With the product operating, open the service door. When the product stops operating, this merely indicates that the door is equipped with an electrical interlock. Next,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

220V WIRING REQUIREMENTS:

2 PACK
TYPICALLY 13', 16', 17' SWIM SPA MODELS





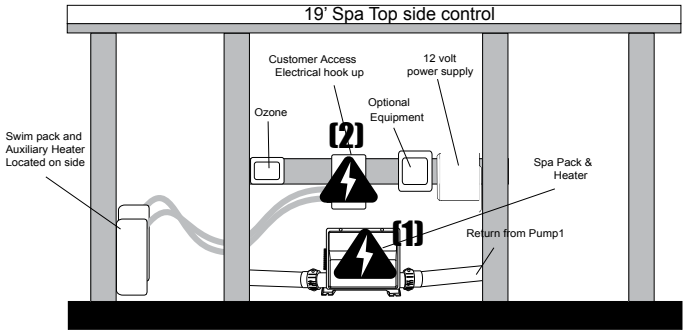


⚠ WARNING!

WARNING: Do not run swim spa with gate valves closed or run pump with no water circulating in swim spa for long periods. This could damage the swim spa equipment.

220V WIRING REQUIREMENTS:

3 PACK
TYPICALLY 19' SWIM SPA MODELS

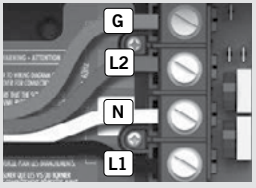


19' SWIM SPA
ELECTRICAL REQUIRES
2 (TWO) 60 AMP CIRCUITS

[1]

ELECTRICAL WIRING: NORTH AMERICAN MODEL IN.YE

Refer to wiring diagram in the enclosure box lid for more information.



240 V (4 wires)

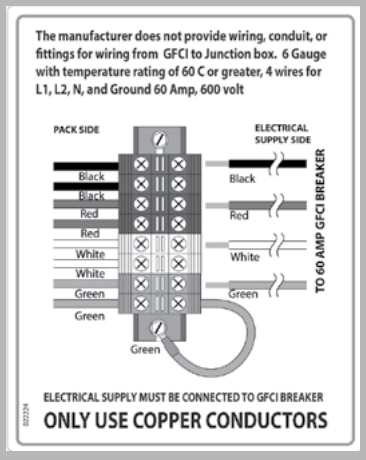
Insert each wire into the appropriate socket of the main entry terminal block according to the color code indicated on the sticker. Use a flat-head screwdriver to tighten the screws on the terminal (please refer to the sticker inside the casing to see the torque to apply).

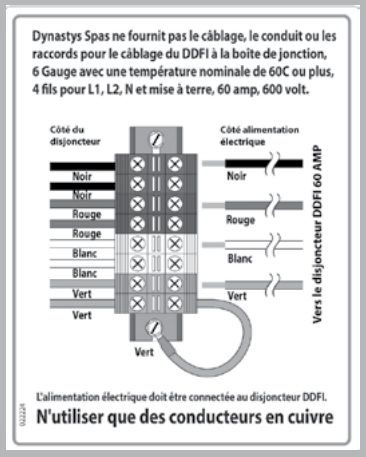
After making sure wire are securely connected, push them back into the box and replace the cover.

Do not over tighten cover screws (torque to 8 in. lb mas (0.9 N. m}).

Connect the bonding conductor to the bonding lug on the front of the spa pack (a ground
electrode conductor should be used to connect the equipment grounding conductors).

[2]





⚠ WARNING!

WARNING: Do not run swim spa with gate valves closed or run pump with no water circulating in swim spa for long periods. This could damage the swim spa equipment.

NORTH AMERICAN ELECTRICAL INSTALLATION REQUIREMENT'S

HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS

Electrical connections made improperly, or the use of wire incorrectly sized, may continually blow fuses in the electrical equipment box, may damage the internal electrical controls and components. Any of these conditions may be unsafe and will void the warranty.

It is the responsibility of the spa owner to ensure that electrical connections are made by a qualified electrician in accordance with the National Electrical code and any local and state electrical codes in force at the time of installation.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 60Hz, alternating current only, 240 volts are required. Make sure that power is not applied while performing electrical installation. A copper bonding lug has been provided on the electrical equipment pack to allow connection to local ground points. The ground wire must be at least 6 or 8 AWG copper wire and must be connected securely to a grounded metal surface such as a cold water pipe. The electrical supply for your spa must include a 60 AMP switch or circuit breaker to open all non-grounded supply conductors to comply with section 422-20 of the National Electrical Code. This disconnect must be readily accessible to the spas occupants, but installed at least five feet from the spa but within sight. A ground fault circuit interrupter (GFCI) must be used to comply with section 680-42 of the National Electrical Code. A GFCI is designed to automatically shut off power to a piece of equipment when a ground fault is detected.

Power hook-up to the spa must be a 240 volt 3 wire plus ground (6 AWG copper).

Route the cable into the equipment area for final hookup to terminals inside the control panel. To install the wiring for the in.ye spa control, you'll need a Phillips screwdriver and a flat screwdriver. Loosen the 2 screws in the Control box. Remove 5 1/2" of cable insulation, Strip away 1" of each wire insulation, Pull the cable through the cutout of the box and secure it with a strain relief (1" NPT strain relief; hole diameter: 1.335"). Make sure that only the uncut sheathing is clamped at this opening.
Push the color-coded wires into the terminals as indicated on the sticker and use the flat screwdriver to tighten the screws on the terminals.
After making sure wire connections are secure, push them back into the box and close the door. Tighten the 2 screws in the Control box.
Connect the bonding conductor to the bonding lug on the front of the in.xe Spa Pack
(a grounded electrode conductor shall be used to connect the equipment grounding conductors). The spa must be hooked up to a "dedicated" 240 volt, 60 amp breaker and GFCI. The term "dedicated" means the electrical circuit for the spa is not being used for any other electrical items (patio lights, appliances, garage circuits, etc.) If the spa is connected to a non-dedicated circuit, overloading will result in "nuisance tripping", which requires resetting of the breaker switch located in the house main electrical panel.

(Excludes any 110/120 volt models.)

EUROPEAN ELECTRICAL INSTALLATION REQUIREMENT'S

HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS

Electrical connections made improperly, or the use of wire incorrectly sized, may continually blow fuses in the electrical equipment box, may damage the internal electrical controls and components. Any of these conditions may be unsafe and will void the warranty.

It is the responsibility of the spa owner to ensure that electrical connections are made by a qualified electrician in accordance with the National Electrical code / IEC and any local and state electrical codes in force at the time of installation.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 50Hz, alternating current only, 230 volts are required. Make sure that power is not applied while performing electrical installation. A copper bonding lug has been provided on the electrical equipment pack to allow connection to local ground points. The ground wire must be at least 10 AWG copper wire and must be connected securely to a grounded metal surface such as a cold water pipe. The electrical supply for your spa must include a 32 AMP switch or circuit breaker to open all non-grounded supply conductors to comply with section 422-20 of the National Electrical code / IEC. This disconnect must be readily accessible to the spas occupants, but installed at least five feet from the spa but within sight. A ground fault circuit interrupter (GFCI) must be used to comply with section 680-42 of the National Electrical code / IEC. A GFCI is designed to automatically shut off power to a piece of equipment when a current fault is detected.

Power hook-up to the spa must be a 230 volt 4 wire plus ground (10 AWG copper) (Where 3 phase power is used)

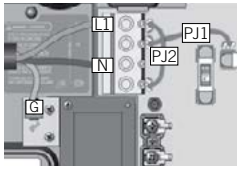
Route the cable into the equipment area for final hookup to terminals inside the control panel. To install the wiring for the in.ye spa control, you'll need a Phillips screwdriver and a flat screwdriver. Loosen the 2 screws of the Spa Pack door and open it. Remove 5 1/2" of cable insulation. Strip away 1" of each wire insulation. Pull the cable through the cutout of the box and secure it with a strain relief (1" NPT strain relief; hole diameter: 1.335"). Make sure that only the uncut sheathing is clamped at this opening.
Push the color-coded wires into the terminals as indicated on the sticker and use the flat screwdriver to tighten the screws on the terminals. After making sure wire connec- tions are secure, push them back into the box and close the door. Tighten the 2 screws of the Spa Pack door. Connect the bonding conductor to the bonding lug on the front of the in.xe Spa Pack (a grounded electrode conduc- tor shall be used to connect the equipment grounding con- ductors). The spa must be hooked up to a "dedicated" 230 volt, 32 amp breaker and GFCI. The term "dedicated" means the electrical circuit for the spa is not being used for any other electrical items (patio lights, appliances, garage circuits, etc.) If the spa is connected to a non-dedicated circuit, overloading will result in "nuisance tripping" which requires resetting of the breaker switch located in the house main electrical panel.

SPA EUROPEAN WIRING CONNECTIONS

Electrical wiring: European model
Refer to wiring diagram in the control box lid for more information.

WARNING – European models must always be connected to a circuit protected by a Residual-Current Device (RCD)

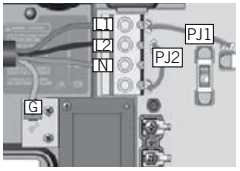
Connect wiring of the electrical service box, RCD, and pack terminal block is essential! Check your electrical code for local regulations. Only copper wire should be used, never



1-phase

Connect PJ1 between P7 and P13.

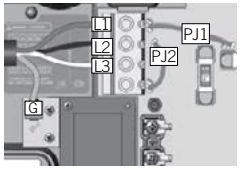
Connect PJ2 between P10 and P74.



2-phase

Connect PJ1 between P7 and P10.

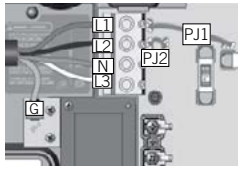
Connect PJ2 between P13 and P74.



3-phase Delta (no neutral)

Connect PJ1 between P7 and P10.

Connect PJ2 between P13 and P74.



3-phase
with single neutral

Connect PJ1 between P7 and P10.

Connect PJ2 between P11 and P13.

Insert each wire into the appropriate socket of the main entry terminal block according to the color code indicated on the sticker. Use a flat-head screwdriver to tighten the screws on the terminal.

After making sure wires are securely connected, push them back into the box and replace the cover. Do not over tighten cover screws (torque to 8 in. lb max {0.9 N.m}).

Connect the bonding conductor to the bonding lug on the front of the spa pack (a grounded electrode conductor should be used to connect the equipment grounding conductors).

GENERAL PRE-OPERATION INSTRUCTIONS

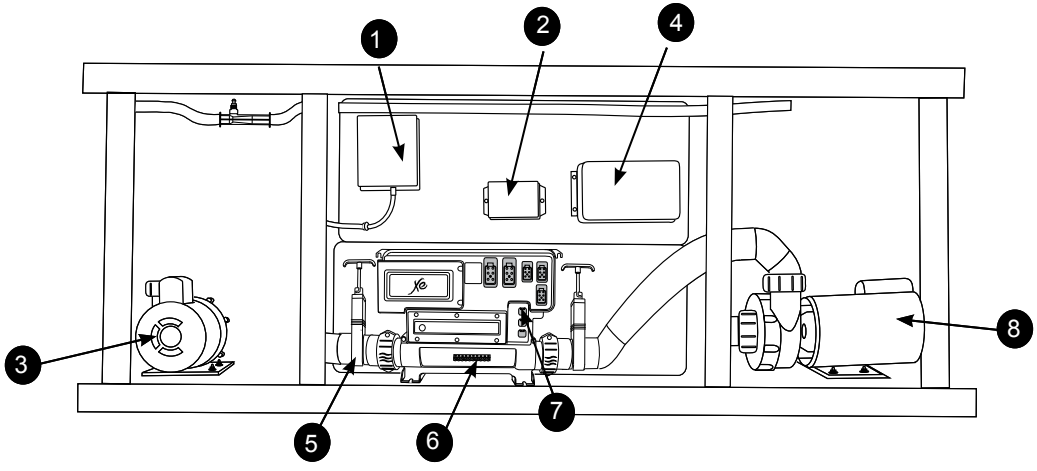
PRIMING PUMP FOR ELECTRICIAL PACKS

The power pack system is located under the skirting. The equipment can be serviced by simply removing the door. The door is located on the side of the spa where three panels are located, usually on the side of the spa with the lounger, or the side where the topside control panel is located.

It is important to make sure that all of the air is out of the pump(s) before operating. To do this follow procedures below:

- Turn off power at the breaker
- Make sure the gate valves are open
- Fill the spa with water going threw the filter
- Turn the power on at the breaker
- Start the pump on low speed and water should start circulating within one to two minutes. If water does not start circulating, turn pump from low to high until water is flowing.

NOTE: Equipment style and location will vary by model



1. Ozonator (if equipped)
2. LED Controller (if equipped)
3. 2nd High Performance Pump
4. Power Supply (if equipped)
5. Gate Valve
6. Flow Threw Heater
7. Equipment Pack
8. Dual Speed High Performance Pump

Set thermostat, located on top side control panel, to desired temperature and continue heating until desired temperature has been reached.

WARNING: Do not run spa with gate valves closed or run pump with no water circulating in spa for long periods. This could damage the spa equipment.

SPA SAFETY:

By learning and adhering to a few simple tips, you'll ensure an enjoyable spa experience for your friends and family.

• Maintain constant adult supervision when children are in or near ANY body of water.

• Install fences, barriers and spa covers to prevent unsupervised access, especially by young children.

• Always completely remove your spa cover before using your spa.

• Inspect your spa equipment on a regular basis to ensure that it is in good working order and that it is safe.

• Always test the temperature of your spa's water before entering the spa. It is recommended that maximum water temperature never exceed 104°F (40°C). Do not soak for more than 15 minutes at one sitting in 104°F (40°C) water.

• Individuals with certain medical conditions, such as heart disease, diabetes, high or low blood pressure, and pregnant women, should not use a spa without advance approval by their physician. If a person has any doubt as to whether a medical condition should limit their use of a spa, they should seek prior consultation with their physician. Individuals with open cuts or wounds should not use a spa until completely healed

• Never use a spa when you are alone and never use a spa while using or after using alcohol or drugs that may cause sleepiness, drowsiness, or raise or lower blood pressure.

• Ask your city about any specific rules and regulations that apply to spa ownership, including local electrical codes.

• Do not allow unsafe or risky behavior in and around the spa.

• Consult with a licensed electrician for installation of or any work to your spa. If you are installing your own spa, it is your responsibility that all work performed
complies with the National Electrical Code and all other applicable codes and regulations.

• Your spa's jets, grates, skimmer and main drain should be properly maintained and secured. Spa users should be instructed not to stick any part of their body into such outlets as entrapment and drowning can occur. Spa users with long hair should also be cautioned not to get their hair near such outlets.

• Maintenance and safety manuals contain detailed tips and recommendations and should be read, followed and applied on a regular basis.

• We encourage all spa owners to request safety related publications from the Association of Pool and Spa Professionals (APSP), including: "The Sensible Way To Enjoy Your Spa or Hot Tub," and "Pool and Spa Emergency Procedures for Infants and Children." These APSP publications can be ordered from the APSP by calling or writing them at the APSP, 2111 Eisenhower Avenue, Suite 500, Alexandria, VA 22314, (703) 838-0083, or by visiting the APSP consumer Web site at www.theapsp.org .

a safe spa is a happy spa!

APSP
The Association of Pool & Spa Professionals