

2016 Spa & Hot Tub Operator's Guide

Includes
Installation, Operation, Maintenance and
Safety Information

NOTE

SAVE THESE IMPORTANT SAFETY INSTRUCTIONS

This manual contains important safety, operating, and installation instructions - read before installing or operating spa.

OWNER'S INFORMATION

DEALER IMPRINT AREA

Dear Spa Owner:

Congratulations on your purchase of a new spa. You now possess the ultimate passport to tranquility - a daily vacation at home, ready and waiting for you in your own backyard!

We want you to enjoy your spa. Many hours of research have gone into the design of your spa to ensure the ultimate in hydrotherapy and relaxation. Only the highest quality components have been used to ensure years of trouble free operation. Your comfort and enjoyment have been designed into your spa from the start.

Please take the time to read through this Operator's Guide. In it you will find guidelines on caring for your spa, a complete explanation of the controls, safety instructions, a trouble-shooting section, and lots more.

Thank you for your business and your confidence in our company.
We look forward to serving you!

TABLE OF CONTENTS

TABLE OF CONTENTS	2-3	SPA TERMINOLOGY	35-38
SAFETY INSTRUCTIONS	4-5	<ul style="list-style-type: none">• Jets• Water Diverter Valve• Fountain Control• Waterfall Control• Air Control• Equipment Access Panel• Access Panels• Draining your Spa• Weir Gate• Spa Light• Spa Heater• Gate Valves• Main Pump• Secondary Pump• Third Pump• Circulation Pump• Ozonator	
<ul style="list-style-type: none">• Warnings• Dangers			
IMPORTANT SAFETY INSTRUCTION	6-16		
<ul style="list-style-type: none">• Read and Follow			
BASIC INFORMATION	17		
NORTH AMERICAN ELECTRICAL REQUIREMENTS	18		
EUROPEAN ELECTRICAL REQUIREMENTS	19		
WIRING DIAGRAM (XM2)	20-24	SPA WATER MAINTENANCE	39-42
<ul style="list-style-type: none">• Wiring Connections• Wiring Configurations		<ul style="list-style-type: none">• Cleaning Your Spa Water• Filling Spa with Water• Water Testing• Balance	
WIRING DIAGRAM (XE / YE-CLASS)	25-26	WINTERIZING / SPRING START UP YOUR SPA	43
<ul style="list-style-type: none">• Wiring Requirements• Factory Recommendations		<ul style="list-style-type: none">• How to Winterize• How to Start-up	
SET-UP AND DELIVERY GUIDELINES	27-29	GENERAL SPA MAINTENANCE	44-45
<ul style="list-style-type: none">• Surface & Pad Requirements• Balcony & Deck Requirements• Access Clearance• Outdoor Installation• Indoor Installation• Electrical Requirements		<ul style="list-style-type: none">• Protect Your Cover• Protect Your Pillows• Maintain Spa Fountain Jets• Protect Your Surface	
PRE OPERATION INSTRUCTIONS	30		
<ul style="list-style-type: none">• Priming Pump			
FILTER LOCATIONS/ MAINTENANCE	31-32		
<ul style="list-style-type: none">• Dual Filters / Single Filters• Cleaning and Replacing Filter Cartridge• Enclosed Style• Open Style			

TABLE OF CONTENTS

GENERAL XE / YE-CLASS
TOPSIDE CONTROLS.....46

GENERAL XM2
TOPSIDE CONTROLS.....47

GENERAL XE / YE-CLASS
DIAGNOSTIC MESSAGE48

GENERAL XM2 PACK DISPLAY
DIAGNOSTIC MESSAGE49-50

CINEMA REMOTE
CONTROL SYSTEM51
 • Programming

TROUBLESHOOTING52-53

NOTES54-56

WARRANTY SUMMARY56
 • Disclaimer
 • Safety Sign
 • Spa Manufacturer

This Operator's Guide utilizes the following symbols to emphasize particular information.



WARNING/CAUTION TAGS DIAGRAM

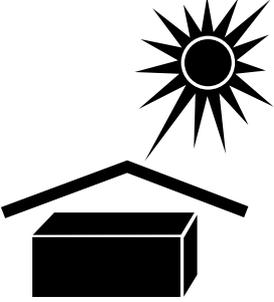
⚠ WARNING

DURING PREGNANCY, SOAKING IN HOT WATER MAY CAUSE DAMAGE TO THE FETUS. LIMIT USE TO 10 MINUTES AT A TIME.

PREVENT DROWNING
SPA HEAT SPEEDS UP EFFECTS OF ALCOHOL, DRUGS, OR MEDICINE, AND CAN CAUSE UNCONSCIOUSNESS. IMMEDIATELY LEAVE SPA IF UNCOMFORTABLE OR SLEEPY.

PREVENT CHILD DROWNING
WATER ATTRACTS CHILDREN. ALWAYS ATTACH A SPA COVER AFTER EACH USE.

⚠ ATTENTION



KEEP FROM HEAT
FAILURE TO DO SO WILL RESULT IN VOID OF WARRANTY.

⚠ CAUTION

Please avoid using any spa chemicals that contain Hydrogen Peroxide. Hydrogen Peroxide based spa chemicals have been found to react adversely with the materials used to produce these components. We recommend the use of Chlorine and Bromine based products only. Any structural and/or cosmetic jet failure linked to the use of Hydrogen Peroxide based products will not be covered under your warranty.

Please consult your Dealer for approved chemical options.

Merci de ne pas utiliser de produits chimiques pour spas contenant du Peroxide d'Hydrogène. Les produits pour spas à base de Peroxide d'Hydrogène produisent une réaction chimique qui va détériorer les jets. Nous recommandons l'utilisation de produits à base de Chlore ou de Brome seulement. Aucun jet détérioré avec du Peroxide d'Hydrogène ne pourrait être couvert par la garantie.

Merci de consulter votre revendeur pour obtenir des conseils sur les produits chimiques compatibles.

001222.072400

⚠ ATTENTION

INSTALL FILTERS BEFORE FILLING SPA!

1. Remove filters from plastic bag.
2. Carefully thread filters into fittings
3. DO NOT OVERTIGHTEN. A snug fit is all that is required.

AVANT DE METTRE DE L'EAU :

1. Enlever le plastique sur les cartouches de filtration.
2. Visser les cartouches dans l'emplacement.
3. NE PAS SERRER TROP FORT, il suffit d'ajuster les cartouches.

001221.072400

WARNING/CAUTION TAGS DIAGRAM

⚠ WARNING	
<p>REDUCE THE RISK OF ELECTROCUTION</p> <p>1. Never place an electric appliance within 5 feet of spa.</p>	
<p>REDUCE THE RISK OF CHILD DROWNING</p> <p>1. Supervise children at all times. 2. Attach spa cover after each use.</p>	
<p>REDUCE THE RISK OF OVERHEATING</p> <p>1. Check with a doctor before use if pregnant, diabetic, in poor health, or under medical care. 2. Exit immediately if uncomfortable, dizzy, or sleepy, Spa heat can cause hyperthermia and unconsciousness. 3. Spa heat in conjunction with alcohol, drugs or medication can cause unconsciousness.</p>	001201_060909
<p>WHEN PREGNANT Soaking in hot water for long periods can harm your fetus. Measure water temperature before entering.</p> <p>1. Do not enter spa if water is hotter than 100° F (38° C). 2. Do not stay in spa for longer than 10 minutes.</p>	
<p>This marking is to be removed only by the owner after Safety Sign is installed.</p>	

NO DIVING

SHALLOW WATER • NO JUMPING

**DIVING OR JUMPING MAY CAUSE DEATH, PARALYSIS
OR PERMANENT INJURY**

NO CLIMBING OR WALKING ON TOP RAIL

⚠ CAUTION
RISK OF ELECTRICAL 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.

⚠ CAUTION
RISK OF ELECTRICAL SHOCK Do not leave the compartment door open
001202_060909

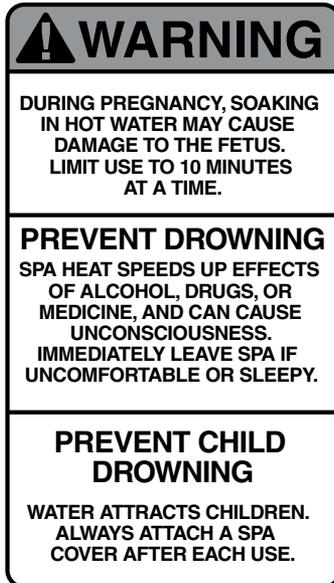
SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

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

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

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



IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING!

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

READ AND FOLLOW ALL INSTRUCTIONS

- 1) **WARNING** - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- 2) **DANGER-RISK OF CHILD DROWNING.**
Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the spa unless they are supervised at all times.

NOTE: A wire connector is provided on this unit to connect a wire of a minimum No. 4 AWG minimum 75°C copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduct within 5 feet (1.52 m) of the unit.

- 3) **DANGER - RISK OF ELECTRIC SHOCK.**
Install spa at least five (5) feet (1.52 m) from all metal surfaces. A spa may be installed within five (5) feet (1.52 m) of metal surfaces if, in accordance with the National Electrical Code / IEC, each metal surface is permanently connected by a minimum No. 4 AWG (6. mm) minimum 75°C copper conductor attached to the wire connector on the terminal box. A grounding lug is provided for this purpose.
- 4) **DANGER - RISK OF INJURY.** The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible.

NOTE: Never operate the 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.

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

- 5) **DANGER** To reduce the risk of injury to persons, do not remove the suction grate. Suction through drains and skimmers is powerful when the jets in the spa are in use. Damaged covers can be hazardous to small children and adults with long hair. Should any part of the body be drawn into these fittings, turn off the spa immediately. As a precaution, long hair should not be allowed to float in the spa.
- 6) **WARNING** Install the spa so that water can be easily drained out of the compartment containing electrical components so as not to damage equipment. Also, when installing spa, allow at least 2 feet of clearance around the perimeter of the spa to provide enough room to access for servicing. Contact your local dealer for their specific requirements.
- 7) **WARNING-TO REDUCE THE RISK OF INJURY:**
- REMINDER - Never allow anyone to dive into a spa. Always enter feet first.
 - Always enter and exit a spa slowly.
 - Do not use the spa alone.
 - Before entering the spa, always measure the water temperature with an accurate thermometer. Tolerance of water temperature regulating devices can vary as much as plus/minus 5° F (3° C).
 - Persons suffering from obesity or with a medical history of heart disease, diabetes, high or low blood pressure or circulatory system problems should consult a physician before using a spa.

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

WARNING-TO REDUCE THE RISK OF INJURY: (CONT.)

- Since excessive water temperatures have a high potential for causing fetal damage during early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 100° F (38° C).
- Excessive water temperature can be dangerous. The water in the spa should never exceed 104° F (40° C). Water temperatures between 100° F (38° C) and 104° F (40° C) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 minutes) and for young children. Long exposures at higher temperatures can result in hyperthermia.
- The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
- 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.
- Children's body temperature can increase more rapidly than adults in the same water with elevated temperatures (above 99° F). Children should spend less time in water above body temperature than adults.

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

**WARNING - TO REDUCE THE RISK OF INJURY:
(CONT.)**

⚠ WARNING!

HYPERTHERMIA

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6° F.

THE SYMPTOMS OF HYPERTHERMIA INCLUDE:

- Dizziness
- Fainting
- Drowsiness
- Lethargy
- Increase in internal body temperature

THE EFFECTS OF HYPERTHERMIA INCLUDE:

- Unawareness of impending hazard
- Failure to perceive heat
- Failure to recognize the need to exit spa
- Physical inability to exit spa
- Fetal damage in pregnant women
- Unconsciousness resulting in potential of drowning

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

8) **WARNING** - The use of alcohol, drugs or medication can greatly increase the risk of hyperthermia in hot tubs and spas.

- The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
- 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.

9) **REMINDER** - A safe temperature for swimming or aquatic exercise is around 80° (27° C).

NOTE - People with infections or sores should not use the spa. Warm and hot water temperatures may allow the growth of infectious bacteria if not properly disinfected.

10) **DANGER - RISK OF ELECTRIC SHOCK.**

Do not permit any electric appliance, such as a light, telephone, radio or television within five (5) feet (1.52 m) of the spa. Never operate any electrical appliances from inside the spa or while wet.

11) **WARNING - RISK OF SUFFOCATION.**

If this spa is equipped with a heater, it is intended for outdoor use only, unless proper ventilation can be provided for an indoor installation.

12) **CAUTION - RISK OF ELECTRIC SHOCK.**

Do not leave the Audio compartment open.

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

13) **CAUTION - RISK OF ELECTRIC SHOCK.**

Replace components only with identical components.

14) **WARNING - PREVENT ELECTROCUTION.**

Do not connect any auxiliary components (for example, additional speaker, headphones, additional audio/video components etc.) to the system. These units are not provided with an outdoor antenna.

Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to your qualified spa tech.

If the power supply/supply cord(s) are damaged, if water is entering the speaker, Audio compartment, or any other component in the electrical equipment compartment area, the protective shield is showing signs of deterioration, or there are signs of other potentially hazardous damage to the unit, turn off the circuit breaker from the wall and contact or refer to your service technician.

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

15) **DANGER - RISK OF ELECTRIC SHOCK.**

Do not permit any electric appliance, such as a light, telephone, radio or television within five (5) (1.52 m) feet of the spa.

- 16) A green colored terminal or a terminal marked G, GR. Ground, Grounding or the symbol shown in Figure 14.1 of UL1563 is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

DANGER-RISK OF ELECTRIC SHOCK. CONT.

- 17) Do at least two lugs marked “Bonding Lugs” are provided on the external surface or on the inside of the supply terminal box or compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the spa to these terminals with an insulated or bare copper conductor not smaller than No. 4 AWG.
- 18) All field-installed metal components such as rails, ladders, drains or other similar hardware with 3m of the spa shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 4 AWG.

CAUTION - Test the ground fault circuit interrupter before each use of the spa.

CAUTION - Read the instruction manual.

CAUTION - Adequate drainage must be provided if the equipment is to be installed in a pit, or equivalent.

WARNING - Water temperature in excess of 100.4°F (38°C) may be injurious to your health.

WARNING - Disconnect the electric power before servicing.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

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: People using medications and/or having an adverse medical history 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.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

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

WARNING: Water temperature in excess of 98.6°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: Do not permit electric appliances (such as a light, telephone, radio, or television) within 1.5 M of this spa or hot tub.

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

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

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

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

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

BASIC INFORMATION

Congratulations on the purchase of your new spa. Our goal is to provide you with a warm and relaxing spa which incorporates a soothing water massage. In order to maximize the pleasure of your spa, you will need to understand how it works.

The following operating and maintenance instructions are very important and must be followed carefully. With proper care and maintenance your spa will provide you with years of satisfaction with minimum effort.

- The pump and heater should be operated a minimum of two hours per day for cleaning and heating.
- The length of time required to heat your spa to the desired water temperature will vary, depending on the air temperature, season, and wind velocity. We highly recommend using a vinyl hard cover to minimize heat loss and to protect your spa when not in use. Covers are available from your local spa dealer.
- The replaceable filter cartridge is trouble free and easy to clean. A routine cleaning is the best practice. Make sure the pump is off, then remove the cartridge. Wash it off using a water hose with a pressure nozzle and then reassemble. This should be done on a monthly basis.
- Keep the spa water level 2" (5 cm) above the skimmer. Never allow the water level to drop below the bottom of the skimmer opening. If the water level is too low, the skimmer will allow air into the water lines of the pump, causing it to lose its prime (waterflow). Running the pump without water flow will damage the pump seal assembly and could possibly result in further equipment damage, which will not be covered under warranty.
- If your spa has a natural wood skirt or if you purchased a gazebo, we recommend applying a wood sealer of your choice (always follow application instructions) to protect the finish. Repeat as directions suggest.
- You should clean your spa at least every 3-4 months. Drain the spa water and use a gentle liquid cleanser. DO NOT use hard brushes or abrasive cleaners. Fill with regular tap water and chemically treat the water for a clean and healthy spa.

CAUTION!

CAUTION: Cover must be kept on spa at all times when spa is drained or winterized. Direct exposure to sunlight can damage plastic parts and interior surface, jets, or any interior components. Damage caused by exposure to the sun will not be covered under warranty.

WARNING!

Do not use soft water. It may harm your acrylic.

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.xe 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 connections 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 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.xe 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 connections 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 conductor shall be used to connect the equipment grounding conductors). 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.

(XM2.ce) WIRING CONNECTIONS

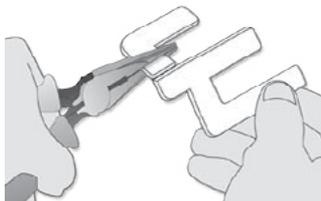
Electrical Wiring



Case 1

The installation of electrical circuit jumpers is needed in certain input supply configurations.

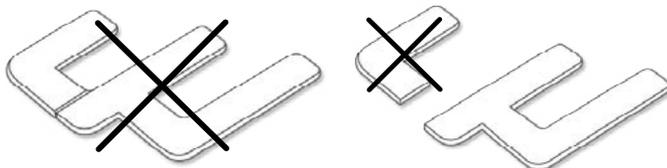
Use uncut jumper as supplied in the case of an input supply wiring, single-phase 1 x 230 VAC (32 A max).



Case 2

In the case of an input supply wiring for a dual phase system 2 x 230 VAC (16 A max), you'll need to cut off a portion of the jumper piece. Proceed as follows:

Use a pair of pliers to firmly hold the upper half of the metal jumper, then break off the other half.



Case 3

Please note that in a 3-phase system 1 x 230 VAC (3 x 16A) No jumper installation is required.

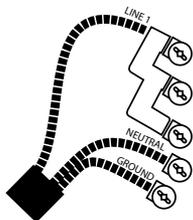


NOTE!

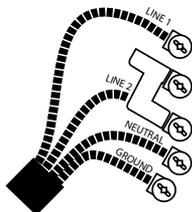
Note: IMPORTANT Safely dispose of the discarded portion in accordance with the local waste disposal legislation in force.

(XM2.ce) WIRING CONNECTIONS

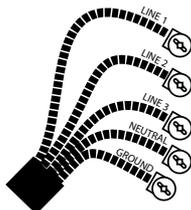
EU



1 x 230 VAC (1 x 32A) Single - Phase



1 x 230 VAC (2 x 16A) Dual-Phase



1 x 230 VAC (3 x 16A) Three-Phase

An IEC certified bushing that will maintain the IPX5 rating must be used. The power cord must be in accordance with the national electrical code of the country in which the in.xm is to be installed.

*Dual-phase system: Two electrical phases out of a three-phase power system. It's important to note that on a polyphase power system, all electrical phases must share the same neutral.

(XM2) WIRING CONNECTIONS

Powering up the unit



Bonding lug

Make sure all accessories are linked to the bonding connector and connected to the pack.

Make sure the spa pack door is closed.

Turn on the breaker.

It's important to specify the phase configuration setting at the power supply: Single-phase (1P), Dual-phase (2P) or Three-phase (3P).



Press select button to select the proper phase configuration setting.

The in.scan display will show "x P", with "x" representing the number of phases of the electric power system.

RCD	Br
1 X 32 A	1 P
2 X 16 A	2P
3 X 16 A	3 P



Use change button to go from one parameter to the next.

Press select button again to make the correct selection.

All receptacles will match the corresponding female connection on the spa pack.

No connectors should remain unplugged. Use blank plugs to fill unused connectors.

SPA (XM2) CONFIGURATION

Description



Select button is used to access the phase configuration setting menu (short press) as well as the low level programming menu (press and hold for 5 seconds). Subsequent presses will save changes and display the next option available or exit automatically if it was the last one.



Use change button to change the parameters displayed.

NOTE!

Note: This procedure has to be performed after every learning mode.

Setting the learning mode

The in.xm pack has the ability to verify and “learn” the current consumption of every output connected to it. If an output is replaced, a new learning must be done. Follow these simple steps:



Press and hold select button for 5 seconds to activate low level programming. Once activated, the display shows “LL” and, in succession, the current preset low level configuration selected. (refer to page 24 for configuration number)

LL



Press change button repeatedly to select the the same preset low level configuration again.



Press select to confirm. You will exit menu automatically. The in.xm2 will then reset. After resetting, the system starts a “learning sequence” in which each individual output is activated and its peak current displayed and saved.

NOTE!

Note: If unusual current readings e.g.: 4 to 6 amps are detected on the high speed of any pump, all pumps must be primed and the learning mode should be restarted.

SPA (XM2) CONFIGURATION

Programming the XM2 for different configurations

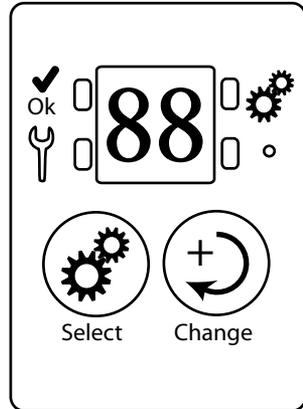
Check water level, make sure all valves are open before switching on power. Press and hold the select button for 5 sec. Or until "II" flashes once. Press the change button until the desired configuration number appears (See chart below) press select to save changes.

The LED display will then flash "B2". This is a current limit setting. The most common setting is "32". Press the change button until desired setting is displayed (see current chart below.) Once more press select to save changes.

The pack will begin a test of all devices and measure the current of each device. This information will be used by the pack to check for problems and to limit the number of devices used at the same time. This test will last about one minute Depending on number of devices. Once complete, the spa may be used as normal.

- 01 - Not Used
- 02 - Not Used
- 03 - 2 Pump
- 04 - 2 Pump, Circ
- 05 - 2 Pump, Blower
- 06 - 2 Pump, Circ & Blower
- 07 - 3 Pump
- 08 - 3 Pump, Circ
- 09 - 3 Pump, Blower
- 10 - 3 Pump, Circ & Blower
- 11 - 3 Pump, Circ, TV & Speaker lifts
- 12 - Not used
- 13 - 3 Pump, Blower & Speaker Lift
- 14 - 3 Pump, Circ & Speaker Lift

Located on the XM2 pack,



Breaker Setting for CE Model

Breaker Setting for ETL Model

Breaker setting	Breaker installed in power disconnect box
BR = 32	1 X 32 Amp GFCI Breaker
BR = 16	2 X 16 AMP GFCI Breaker
BR = 16	3 X 16 AMP GFCI

Breaker setting	Breaker installed in power disconnect box
BR = 48	for 3 Pump
BR = 40	for 2 Pump
BR = 24	for 1 Pump

SPA (XE / YE-CLASS) WIRING DIAGRAM

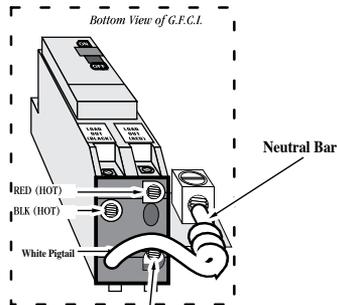
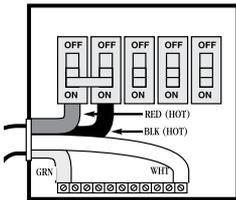
The Diagram intended for the XE / YE-Class Pack System

Wiring Requirements

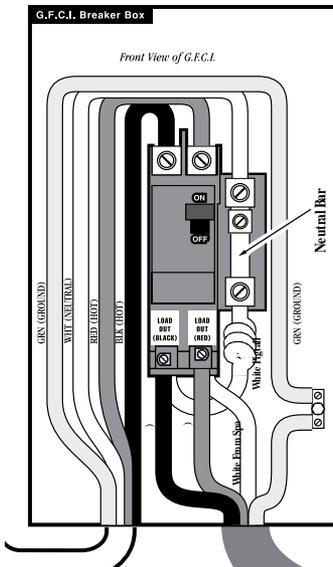
- 2-Hots, 1-Neutral, 1-Isolated Ground
- 4 Wire #6 AWG minimum 75°C copper conductor

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.



**WHITE WIRE
TO THE SPA**



TO SPA

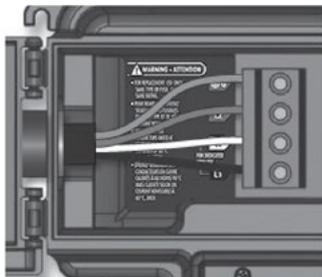
For spa wiring configuration please refer to page 22 or equipment pack for detailed information

⚠ NOTE!

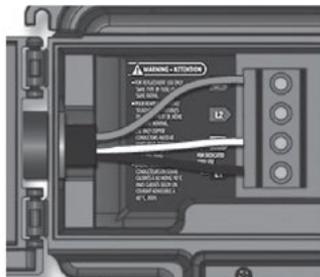
Note: Connection order may vary by pack model, please refer to equipment pack panel for proper connection order.

SPA (XE / YE-CLASS) WIRING DIAGRAM

Electrical wiring North American model in.xe™

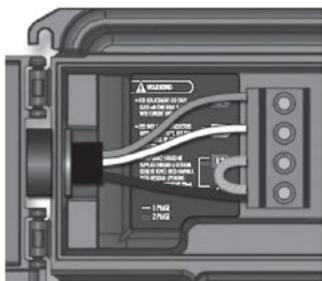


For 240 V (4 wires)
Correct wiring of the electrical service box, GFCI, and pack terminal block is essential.
Call an electrician if necessary.



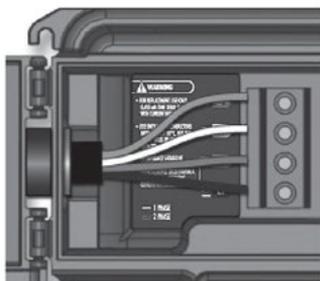
For 120 V (*3 wires)
*If connected to a 3 wire system, no 240 V component will work.
Refer to “Connections for 120 V heater” section of this manual.

Electrical wiring European model in.xe.ce™



Single-phase

in.xe.ce 230 V or 230/400 V
Correct wiring of the electrical service box, RCD, and pack terminal block is essential!
Call an electrician if necessary.



Dual-phase

WARNING!
in.xe.ce models must always be connected to a circuit protected by a Residual-Current Device (RCD) having a rated operating residual-current not exceeding 30 mA.

SET-UP & DELIVERY GUIDELINES

Getting ready for delivery & Set-up of your new spa

Surface and Pad Requirements

Your new portable spa must be placed on a uniformly firm, flat, and level surface. A concrete pad 3" (7.5cm) thick is best. If your spa is located near sprinklers, adjust or cap them so they do not hit the siding of the spa.

Balconies and deck requirements

- Decking must be constructed to support 85 pounds per square foot.
- Balconies must be constructed to meet current state and local codes.
- Gates must be self-closing and self-latching.

Access & Clearance

- Your spa requires 48" (1.22m) of clearance through gates between house and side fences, and up to 8.5' (2.6m) overhead clearance depending on the size of the unit.
- The clearance required to turn a corner can be equal to the length of the spa.
- All debris blocking access to the job site must be removed prior to delivery. Any trimming of trees or bushes, removal of debris, leveling of ground or other general maintenance must be done prior to delivery and is the responsibility of the customer.

General Considerations for outdoor installation

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

- How spa will complement landscaping and vice versa.
- View from inside of spa and view of spa from inside the home.
- Exposure to sunlight and shading from trees.
- Privacy
- Getting to spa from house and return.
- Proximity to dressing room and bathrooms
- Storage for spa chemicals
- Local building codes (if applicable)
- Power cable

CAUTION!

Decking must be constructed to support 85lbs. per sqft. (38 kgs.)

SET-UP & DELIVERY GUIDELINES

Getting ready for delivery & Set-up of your new spa

General considerations for indoor installation

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

- Work with your 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.
- A ventilation fan may be necessary due to high humidity created by your spa.
- Finished material in your 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.
- Clearance Access: In order to better service your spa, clearance for access to spa must be 38 inches (92cm) at equipment compartment and 24 inches (61cm) around the remaining area.

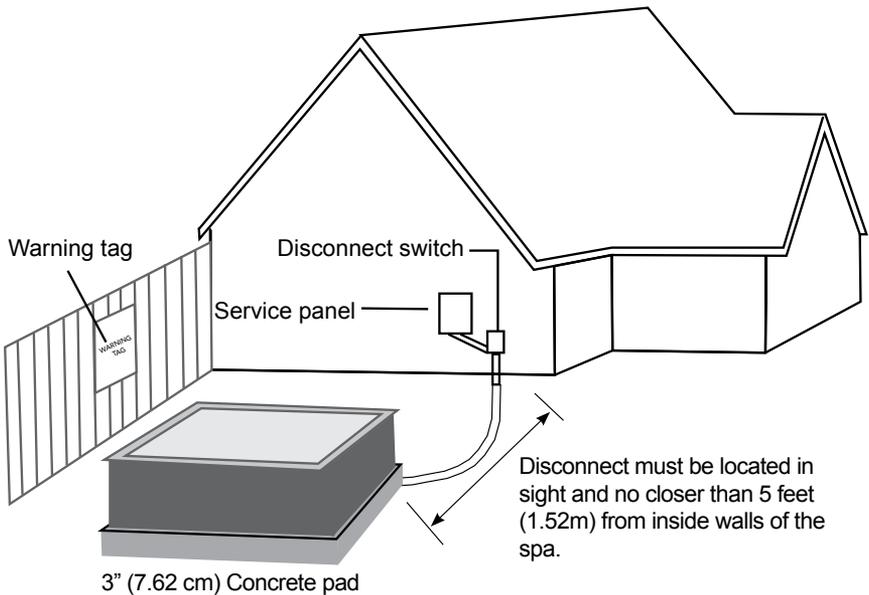
SET-UP & DELIVERY GUIDELINES

Electrical requirements

- (NA) Your 220 Volt spa pack will require a double pole 60 amp dedicated GFCI, ground fault circuit breaker. (refer to page 25)
- (EU) Your 230 Volt spa pack will require a dedicated breaker. (refer to page 20-21)

Caution: Connect only to a circuit protected by a class A ground fault circuit interrupter.

- Extension cords are not to be used in conjunction with operation of the spa. Low voltage damage could result, which is not covered by warranty.
- If you have any doubts, have your electrical system checked by a licensed electrician.
- Use copper conductors only.



⚠ 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.

GENERAL PRE-OPERATION INSTRUCTIONS

Priming pump for electrical packs

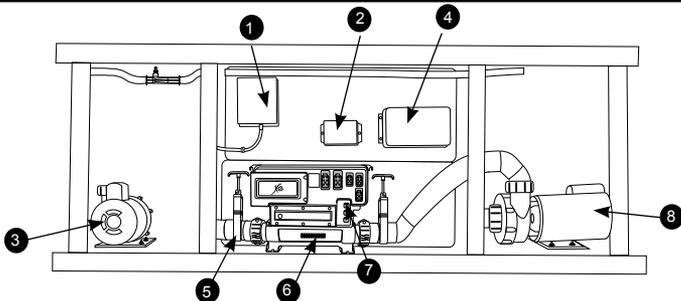
The power pack system is located under the skirting. The equipment can be serviced by simply removing the door. The door is located on the side of the spa where three panels are located, usually on the side of the spa with the longer, or the side where the topside control panel is located.

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 thru 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.
- If pump still does not prime, please see "Trouble Shooting Guide" located in the back of this manual

▲ NOTE!

Note: Equipment style and location will vary by model



① Ozonator

② LED Controller

③ 2nd High Performance Pump

④ Power Supply

⑤ Gate Valve

⑥ Flow Thru Heater

⑦ Equipment Pack

⑧ Dual Speed High Performance Pump

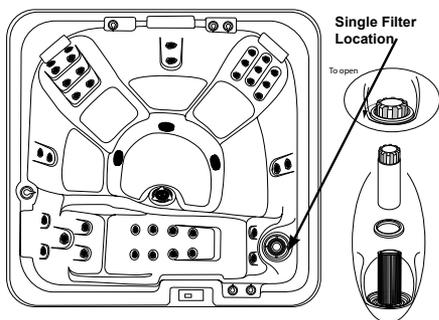
Set thermostat, located on top side control panel, to desired temperature and continue heating until desired temperature has been reached.

▲ WARNING!

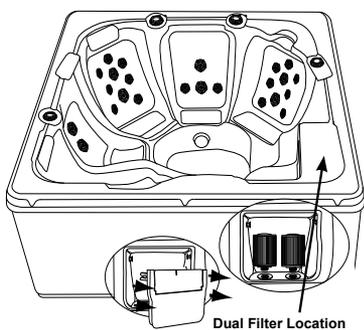
WARNING: Do not run spa with gate valves closed or run pump with no water circulating in spa for long periods. This could damage the spa equipment.

FILTER LOCATION

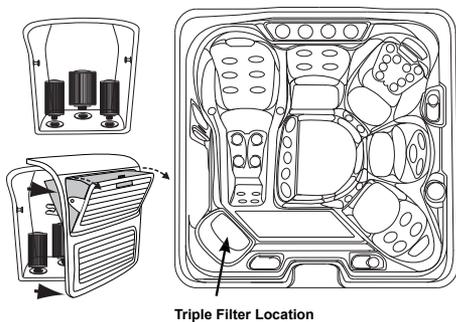
Single Filter Location



Dual Filter Location



Triple Filter Location



▲ NOTE!

Note: Location will vary by model

FILTER MAINTENANCE

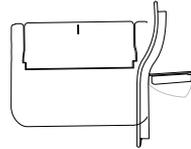
Filtration starts as soon as water flow is steady through the filter. The filter cartridge removes body oil and debris from the spa water, as they can cause flow resistance. A dirty cartridge will decrease flow and may prevent the spa from heating properly. Therefore, regular filter cleaning is essential.

Cleaning and replacing filter cartridge

Your spa filter(s) have been designed for quick and easy maintenance.

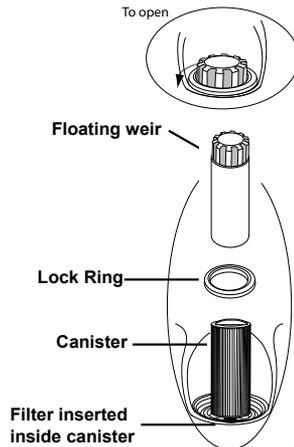
Enclosed Style

- Turn off power at the breaker.
- Open filter door and expose filter cartridge(s) by pulling door toward center of spa until door opens completely.
- Unscrew filter cartridge(s) and remove.
- Clean with a garden hose equipped with a high pressure nozzle, or soak in filter cartridge cleaner if necessary, or at every other regularly scheduled cleaning. Rinse filter thoroughly before installing.
- Screw clean cartridge back into filter enclosure and return filter door to original position.



Open Style

- Turn off power at the breaker.
- Remove basket from filter canister. Remove filter cartridge and clean with a garden hose equipped with a high pressure nozzle or soak in filter cartridge cleaner if necessary or at every other regularly scheduled cleaning. Rinse filter thoroughly before installing.
- Place clean cartridge in filter canister
- Replace basket weir in filter canister.



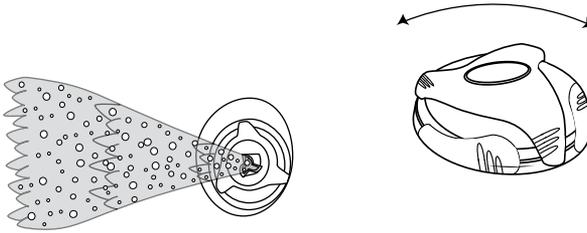
▲ NOTE!

Note: The filter should be inspected and cleaned on a regular basis.

SPA TERMINOLOGY

Jets

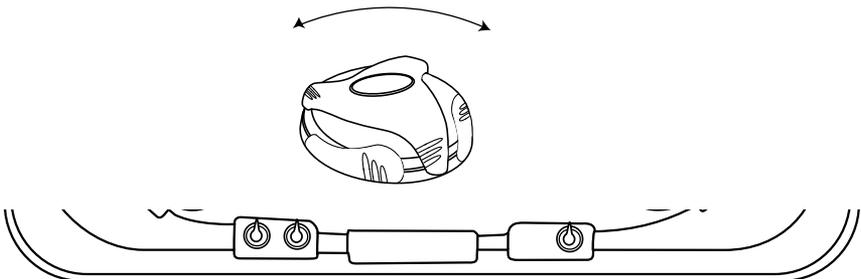
Your new spa features a variety of jet styles. All jets regardless of style return the water to the spa. Air is mixed with the water by using the air controls (if equipped) creating a gentle to most vigorous massage.



Water Diverter Valve

The water diverter valve controls the output of the pump(s) water flow to either side of the spa. It will provide even water flow to all jets if left in the half way position. The purpose of this valve is to increase or decrease the output of one side or another for maximum or minimum water flow in case of one or two person usage. This valve is also used to turn the master massage jet on and off, if so equipped. Colors/style may vary from drawing. A water diverter valve is the largest of the valve controls.

Although all three controls look similar in appearance, they are easily discernible by size. The air control is the smallest, the mini diverter valve is medium in size, and the water diverter valve is the largest .

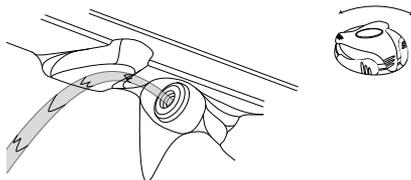


*A Mini Diverter Valve, an Air Control, and a Water Diverter Valve.
Locations and design will vary on each spa model.*

SPA TERMINOLOGY

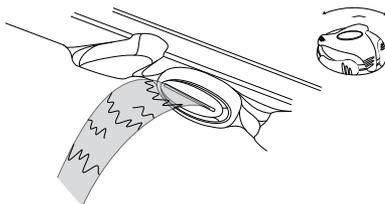
Fountain Jet Controls

If your spa is equipped with optional fountain jets, they are controlled with a fountain jet control. Turning the fountain jet control full counterclockwise will turn the fountain jet on full power, while turning full clockwise will turn the fountain jet off.



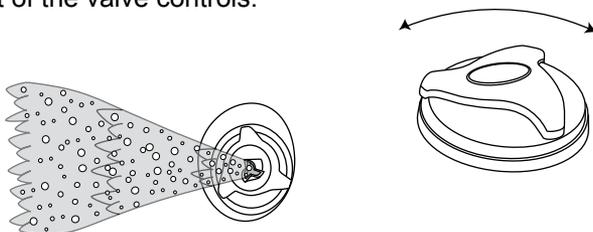
Waterfall Controls

If your spa is equipped with waterfalls, they are controlled with a mini diverter valve. Turning the mini diverter valve full clockwise will turn the waterfall on full power, while turning full counterclockwise will turn the waterfall off.



Air Control

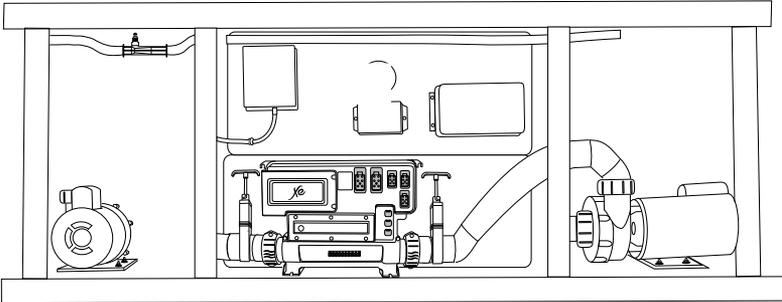
Each spa is equipped with air controls (venturies). The purpose of these controls is to regulate the mixture of air and water that flows through the jets. If an optional blower is installed, air is also pushed through the air controls (venturies) for maximum output. If your spa has a master massage jet located in the foot well, the spa will be equipped with an air control specifically for the master massage jet. This third control operates the same as the others. Colors/style may vary from drawing. An air control is the smallest of the valve controls.



SPA TERMINOLOGY

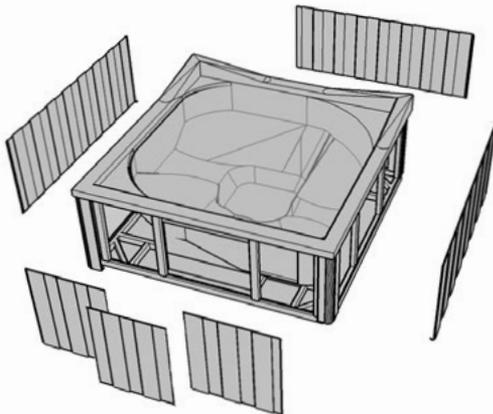
Equipment access panel

This area is located behind the side panel below the topside control panel, this area houses the major components responsible for the spas operation. The components include the pumps, heater, control panel box, ozonator, and led light system (if applicable). Pump and equipment placement may vary by model.



Access panel

These are located on all four sides of the spa. All of the panels are removable should service be required.

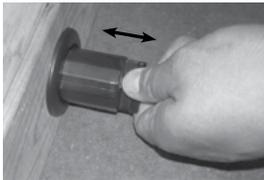


SPA TERMINOLOGY

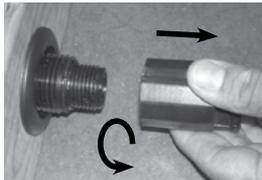
Draining your spa

Because your spa holds a relatively small amount of water, contaminants such as body oil, perspiration, dirt, hair, etc., may become quite concentrated. For this reason, the water should be drained and replaced every three months depending on use.

- Turn off power at the breaker.
- When water begins to drain out of the hose, be sure to drain the water to a convenient place.



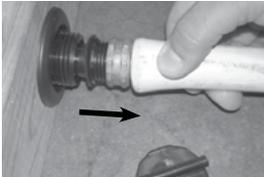
1. Pull knob out from the housing approx. 2" until it snaps into place.



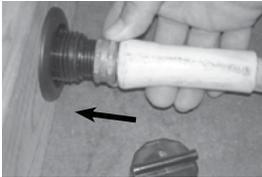
2. Remove cap by unthreading counter clockwise



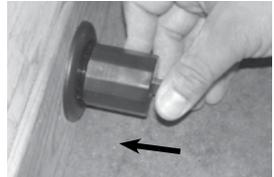
3. Thread hose onto the spa drain



4. Pull the hose outward to allow water to flow. Push inward to shut water off



5. To disconnect the hose, push the hose inward approx. 1/2" to shut the water flow off. Unthread the hose.



6. Thread the cap back on the push the internal back into the housing until it snaps into place.

After draining is completed, Wipe down the inside of your spa making sure your surface is dry and free from standing water. We recommend that after draining or cleaning your spa that you put the cover back on. Avoid exposing the acrylic surface to direct sunlight for an extended period of time. Extended exposure can cause surface fading or cracking, which could void the acrylic warranty.

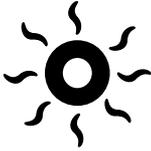
▲ NOTE!

Note: Be sure that hose is on a downward grade to properly drain spa.

SPA TERMINOLOGY

Spa Light

Your spa light is designed for safety and is located in the interior wall of your spa. The on/off switch is located on the topside control panel.



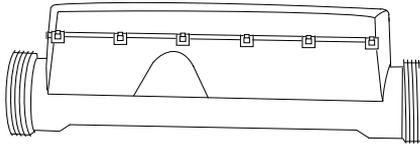
OR



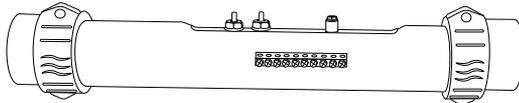
Spa heater

This element is an electric heater housed in a stainless steel tube. It is thermostatically controlled and equipped with a high-limit temperature safety shut-off sensor. The high-limit sensor cannot be reset until the temperature within the heater assembly drops several degrees below the shut-off temperature of 100° (°38 C) (varies by model). Should the high-limit switch trip repeatedly, contact your dealer or qualified service representative to diagnose the problem.

XM - PACK



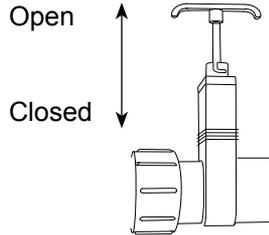
XE - PACK



SPA TERMINOLOGY

Gate Valves

Are installed for shut off/on water supply from heater or pump for service. For normal spa operation valves should be in the open position (handle extended is open).



Main Pump

This produces water flow through heater and main jets. Also used for filtration. Can be controlled as desired by pressing the pump or pump 1 button on your topside control panel. Refer to quick reference card for filtration frequency and duration.

Secondary Pump (on select models)

This produces water flow through secondary group of jets. Can be controlled by pressing the pump 2 button on your topside control panel.

Third Pump (on select models)

This produces water flow through third group of jets. This pump will be a high speed only. Can be controlled by pressing the pump 3 button on your topside control panel.

Circulation Pump (on select models)

If equipped, this pump is controlled during filtration and heating only, by the topside control configuration. Refer to quick reference card for filtration frequency and duration.

Ozonator (on select models)

Your ozonator will operate in conjunction with your filtration system and circulation pump (if applicable). It will deactivate when any other control function is manually activated and will reactivate after one hour in activity. The ozonator is standard on all spas.

SPA WATER MAINTENANCE

Cleaning Your Spa Water

You need to keep your spa clean and ready to use. When you enter your spa, you bring in as much contamination as 50 people would in a normal size swimming pool. Because your spa is such a small, enclosed environment, it needs to be a sanitary place. We accomplish this with a simple three step process:

- 1) Balance
- 2) Filtration
- 3) Sanitation

The water that comes from your tap at home is fine for showers or bathing, because it is drained immediately after use. In a spa, your water is used for up to three months. Hot water is a breeding ground for bacteria, so sanitizing becomes necessary, as well as maintaining a specific mineral balance. Having that mineral balance in place ensures that the water, which is naturally corrosive to metal, will not cause damage to the spa equipment.

We recommend weekly water testing.

WARNING!

WARNING: Please be careful with chemicals - damage to the surface of the spa can occur due to the improper use of chemicals such as trichlor or chlorine, chemical tablets, acids or spa cleaners. Do not let undissolved chemicals lie on the surface of the spa. Damage from chemical misuse is not covered under warranty. Improper water chemistry balance can damage the spa surfaces and/or equipment, and is not covered under your warranty.

WARNING!

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

SPA WATER MAINTENANCE

Water testing

Your spa dealer is equipped to perform a thorough analysis of your spa water. Take a one liter sample to the store and they will advise you on the products necessary to properly balance and care for your spa. Unbalanced spa water can quickly damage your equipment. Your spa dealer will advise you on how to protect your investment.

WARNING!

Balance

Spa water must have the correct chemical balance. Unbalanced water can irritate eyes, corrode the equipment, leave mineral deposits, and decrease the effectiveness of the sanitizer.

Balanced water means establishing proper balance among total alkalinity, ph, calcium hardness and total dissolved solids.

SPA WATER MAINTENANCE

Problem	Possible Cause	Action
Cloudy Water/Haze	Total alkalinity in high range.	Add alkalinity decreaser (acid). Target 100.
	pH too high or too low.	Sprinkle or pour pH adjuster.
	Too little sanitizer in water.	Test and adjust pH & sanitizer to range.
	Fine particles won't filter out.	Add flocculant to skimmer, run pump, then remove & clean filters.
	Circulation Restricted Pump sucking air.	Check skimmer basket; clean. Make sure intakes are open.
	Filter dirty.	Hose off filter: check for tears, fiber breakdown, clogging or collapse: replace.
	Filter cycle too short.	Run filter system 24 hours & reclean and/or run main pump longer each day.
	Total dissolved solids have reached chemical saturation point.	Test TDS at dealer. Drain and refill spa.
	White chips scaling off heater: Calcium level too high.	Drain and inch of water off, add fresh water. Test and adjust calcium to range. Add sequestering agent.
Foam	Air leaking into filter system.	Find and fix leaks; use a pro if necessary. Raise water level above the skimmer opening.
	Detergent in water via soap in swimming suit, or on bathers' body and hair.	Advise spa users to rinse soap off more thoroughly in the shower before getting into spa. Double rinse bathing suits. May be less effort to drain and refill the spa.
	Too little hardness in water.	Add calcium to correct level.
	Too much sanitizer in water. Too much algaecide in water.	Remove some water and add new. Re-test. Empty out some water and add fresh.
	If foam is still present.	Squirt defoamer over the water surface.
Discolored Water	Green water due to copper getting into water: or MPS (monopersulfate compound) getting into biguanides	Add sequestering or chelating agent. If MPS and biguanides mix, do a major flush.
	Too much bromine.	Leave off cover so bromine dissipates more quickly.

SPA WATER MAINTENANCE

Problem	Possible Cause	Action
Staining	Possible algae: yellow-green, pink, brown, or black.	Treat with algaecide. Worse cases, tetraborates.
	Minerals such as copper or iron making green or brown stains	Add sequestering or chelating agent.
Odor	Bromamines or chloramines from non-oxidized organic matter.	Shock with non-chlorine oxidizer such as potassium peroxymonosulfate.
	Moldy dirty cover either inside or out.	Clean cover both inside and out with diluted bleach.

⚠ WARNING!

Do not leave your water treatment products outside. If subjected to extreme heat or cold, their effectiveness can be impaired.

KEEP ALL CHEMICALS OUT OF THE REACH OF CHILDREN!

WINTERIZING YOUR SPA

⚠ WARNING!

In areas of the country where the temperatures drop below 32° F (°O C), it is important to follow these directions:

When winterizing the spa, we recommend putting RV antifreeze in the spa and running it before draining the spa.

- 1) If the spa is not going to be used, drain completely. Be sure all water is removed. Break or loosen unions at each end of pump to ensure water from pump area is removed. Remove pump freeze plugs if so equipped. Using a shop vacuum, vacuum all jets thoroughly to remove any water left over in the plumbing lines.
- 2) Do not turn unit off with water in the spa. Frozen water may rupture plumbing. Freeze damage repairs are not covered under warranty.
- 3) Remove and clean filter cartridge. Store cartridge in a secure place to prevent freezing. If the spa is going to be used, maintain normal operating procedures and ensure cover is in place when possible.

⚠ NOTE!

Note: Freeze ups or damage caused by freezing are not covered under warranty!

SPRINGTIME START-UP

If your spa has been winterized, the Manufacturer highly recommends that you contact an authorized dealer to restart your spa. The following is an outline of the procedures involved.

- Make sure all o-rings for pumps are in place and undamaged.
- Make sure all the fittings that loosened are re-tighten.
- Replace all jet fittings, pump drain plugs, hose bib drains, and bleeder valves.
- Fill the spa with water in a normal way,
- Run the jets on high for about 15 minutes.
- Drain the water.
- Put the filters back in.
- Refill the system and treat chemically as one would after a normal water change.

For more information about winterizing your system, or restarting a winterized system, please contact your local Authorized dealer.

GENERAL SPA MAINTENANCE

Proper maintenance for your spa cover

- 1) Use a soft broom to remove accumulation after every snowfall or ice storm.
- 2) Splash cool tap water on the hardware to free them if they become frozen shut. Household lubricating oil will keep the lock free, but apply carefully because it can damage the cabinet finish.
- 3) We recommend a good treatment with vinyl conditioner before the first snow or ice. If possible, treat during the winter too.
- 4) Monitor your water chemistry. Even if the spa is not used regularly, improper water chemistry can cause a mildew build-up on the cover. Clean, PH controlled water will prolong the life of the cover.
- 5) If mildew is found, remove foam cores from the vinyl encasement. Mix 1 gallon of water, a teaspoon of mild dish washing soap and a cup of bleach. With a soft bristle brush, scrub the inside and outside of the vinyl encasement thoroughly. Take a washcloth and wipe down each foam core; rinse thoroughly. Place the encasement in the sun and foam cores in the shade to dry. Once everything is thoroughly dry, spray the cores and encasement with a mildew inhibitor. Allow to dry completely, then reassemble. The key here, of course, is to maintain proper water chemistry to avoid mildew.
- 6) We suggest rotating the cover every six months to maintain even wear. Unzip the cover, remove the foam cores, turn over and reassemble.

Ask Your Dealer About Using A Cover Lifter

PROTECT YOUR COVER!

GENERAL SPA MAINTENANCE

Proper maintenance for your spa pillows

- Your spa pillows need to be rinsed periodically to remove any chemical residue. This should help to eliminate pillows becoming stiff and discolored.
- If spa is not to be used for a period of time, pillows should be removed. Pillow life will be extended.

Proper maintenance for your spa fountain jets

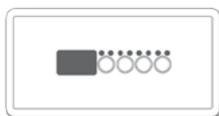
- In order to keep your fountain jets operating properly, follow these instructions in sequence:
- Turn off fountain jets
- Remove outer ring by turning face counter clockwise
- Remove internal jet insert with a pair of needle nose pliers.
- Clean plastic filter at the back of the jet insert so all holes are free of debris.
- Reinstall jet insert and outer ring.

Please note: We do not recommend the fountain jets be left on when spa cover is closed, this may damage your spa cover.

GENERAL XE TOPSIDE CONTROLS



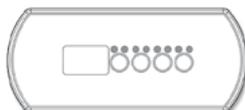
K-85 / K-92



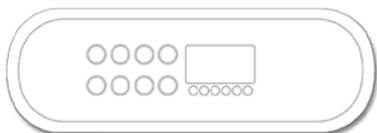
K-18



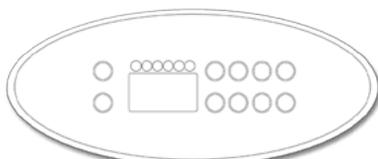
in.k450



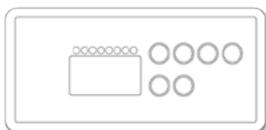
in.k200



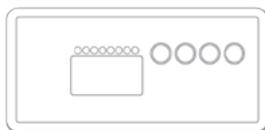
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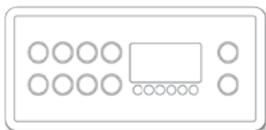
K-52 / K-93



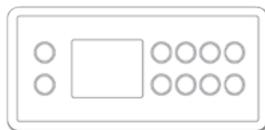
K-35



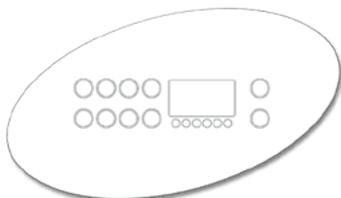
K-19



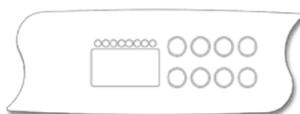
K-8



K-4



K-56



K-94

GENERAL XE/YE-CLASS SPA FUNCTIONS

Pump 1	First Press	Second Press	Third Press
			
Sequence	Low speed*	High speed*	Off
Indicator	Blink*	On solid*	Off
Default	20 minute time out		
Sequence	Long press of 5 seconds		

Functionally of a long press

A long press of 5 seconds will enable the Off mode. This mode allows you to stop all outputs including all automatic functions such as filter cycle, heat request and Smart Winter Mode purge for **30 minutes** to perform quick spa maintenance. When the Off mode is active, the display will toggle between the “OFF” message, the clock and the water temperature. Press either, **Pump 1 or Pump 2, Blower or Econo** key to restart the system, before the expiration of the 30 minute display.

The spa light will flash a few second before the end of the 30 minutes to warn you to system is about to resume its normal operation. When the system resumes it normal operation, the display shows On for 3 seconds.

- *If equipped with 2 speed pump*

Pump 2, 2 spd.	First Press	Second Press	Third Press
			
Sequence	Low speed*	High speed*	Off
Indicator	Blink*	On solid*	Off
Default	20 minute time out		

- *If the controller supports Pump 2, 2 speeds.*

PLEASE NOTE: Symbol Icons may vary.

GENERAL XE/YE-CLASS SPA FUNCTIONS

Pump 2, 1 spd.

First Press

Second Press



Sequence

On*

Off*

Indicator

On solid*

Off*

Default

20 minute time out

• *If equipped with Pump 2.*

Blower

First Press

Second Press



Sequence

On*

Off*

Indicator

On solid*

Off*

Default

20 minute time out

• *If equipped with a blower.*

Pump 2 and Blower



First Press

Second Press

Third Press

Fourth Press

Sequence

Pump 2

Pump 2 & Blower ON

Blower ON only

Off

Indicator

On solid*

On solid*

On solid*

Off

Default

20 minute time out

• *If equipped with blower.*

Pump 3 and Pump 4



First Press

Second Press

Third Press

Fourth Press

Sequence

Pump 3 High Speed

Pump 3 Pump 4 ON

Pump4 ON only

Off

Indicator

On solid*

On solid*

On solid*

Off

Default

20 minute time out

• *If equipped with Pump 3 and 4.*

GENERAL XE/YE-CLASS SPA FUNCTIONS

Increase set point 	First Press	Second Press	Holding Key
Display	Spa set point	Increase Set Point by 1 °F	Increase Set Automatically by 1 °F
Limit	N/A	104 °F (40 °C)	104 °F (40°C)
Default	95 °F (35 °C)		
Indicator			

Decrease set point 	First Press	Second Press	Holding Key
Display	Spa set point	Decrease Set Point by 1 °F	Decrease Set Automatically by 1 °F
Limit	N/A	59 °F (15 °C)	59 °F (15°C)
Default	95 °F (35 °C)		
Indicator			

Light 	First Press	Second Press
Sequence	On	Off
Indicator	On solid	Off
Default	2 hour time-out	
Functionality of a long press	Press to hold LIGHT key to acces filter menu (up/down keys modify values.)	
	If none of these keys available.  	
Duration	Press LIGHT key to display next parameter, system will reset after last parameter.	

GENERAL XE/YE-CLASS SPA FUNCTIONS

Light 	First Press	Second Press
Parameter	Display	Value of x
FilterCycle Duration	Fd xx	2 to 10
FilterCycle Frequency	FF xx	0 to 23
Temperature Unit	F	°F or °C

Water Temperature Regulation

Functionality In a regulation cycle, the system first generates water flow through the heater housing and the plumbing, in order to ensure accurate water temperature readings as well as avoiding heater activation in dry conditions. After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at Set Point.

Indicator  The “heater” indicator lights up when the heater is on.

 Icon flashes when taking water temperature reading.

GENERAL XE/YE-CLASS SPA FUNCTIONS

Filter (Purge)



Functionality Press hold the filter switch until the Clock icon lights up (about 5 second), 1st parameter will appear (Up/Down keys modify values)

Duration Press filter key to display next parameter, system will reset after last parameter.

Parameter	Display	Value of x
-----------	---------	------------

Time (Hour)	xx:30	00 to 12 (AM / FM) hour
--------------------	-------	-------------------------

Time (Minutes)	01:xx	00-59 minute
-----------------------	-------	--------------

Filter or Purge Cycle start time	FS xx PS xx	0 - 12 (AM / PM)
-----------------------------------------	----------------	------------------

Filter Cycle duration	Fd xx	0-12
------------------------------	-------	------

Filter or Purge Cycle Frequency	FF xx PF xx	0-4
----------------------------------------	----------------	-----

Economy Activation	Ep xx	0 = Off 1 = On
---------------------------	-------	----------------

Economy Mode start time	ES xx	0-12 (AM / PM)
--------------------------------	-------	----------------

Economy Mode Duration	Ed xx	0-24
------------------------------	-------	------

Temperature Unit	F	F or C
-------------------------	---	--------

Smart Winter Mode



Functionality Turn pumps on when ambient temperature is below 6°C

Duration Pumps activate for 1-minute (every 2 hrs or less)

Indicator  or  or 

GENERAL XE/YE-CLASS SPA FUNCTIONS

Economy 	First Press	Second Press
-------------------------------------------------------------------------------------------	-------------	--------------

Functionality When Economy mode is set, the pack regulates the water temperature 20 °F (11 °C) below actual set point.

Sequence	On	Off
----------	----	-----

Display Display the toggle between Eco and water temperature noE for 3 seconds

On/Off  

Functionality Depending on the spa manufacturer, this key may have different function: On/Off, Standby mode or quick enable of the Economy mode.

On/Off Mode: This mode allows you to stop all outputs including all automatic functions such as filter cycle, heat request and smart winter mode purge for 30 minutes to perform quick spa maintenance.

Standby Mode: The mode allows you to stop all outputs and automatic functions with the exception of the heat request for 30 minutes.

Manual Economy Mode: This mode allows you to save some energy by regulating the water temperature 20 °F (11 °C) below the actual set point.

On/Off  	First Press	Short Press	Long Press 3-6 sec.
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------	-------------	---------------------

Display Off Temperature of water Standby

GENERAL XE/YE-CLASS SPA FUNCTIONS

On/Off Cont.	 	Short Press	Long Press 6-9 sec.	Short Press
Display		Temperature of water	Display will toggle between Eco and water Temperature	noE for 3 seconds

GENERAL XE/YE-CLASS TOPSIDE DIAGNOSTIC MESSAGE

Hr

An Internal hardware error has been detected in in.xe.

- Restart the spa pack and start and stop all pumps and blower.
- If error reappears, replace in.xe spa pack.

Hl

Water temperature at the heater has reached 119°F.

DO NOT ENTER SPA WATER!!!

- Restart the spa pack.
- If error persists, measure the temperature with a digital thermometer and compare. Its reading with temp. on the display. Make sure the temp. reading is lower than 119°F.
- If problem persists, replace pack.

Roh

Temperature inside the spa skirt is too high, causing the internal temperature in the in.xe to increase above normal limits.

- Remove spa skirt and let system cool down, until the error clears.

Flo

The system did not detect any water flow while the main pump was running.

- Make sure valves are open and that water level is high enough.
- Check and remove anything obstructing the filter.
- Make sure there are no air locks or that no object obstructs the passage of the water in the heater channel. Pumps may make strange noises. Follow air lock procedure to clear them.

Prr

The Prr error message indicates a problem with regulation probe. The system is constantly verifying if temperature probe reading is within normal limits.

- Verify if regulation probe located above the heater is properly connected.
- Replace in.xe heater if problem persists.

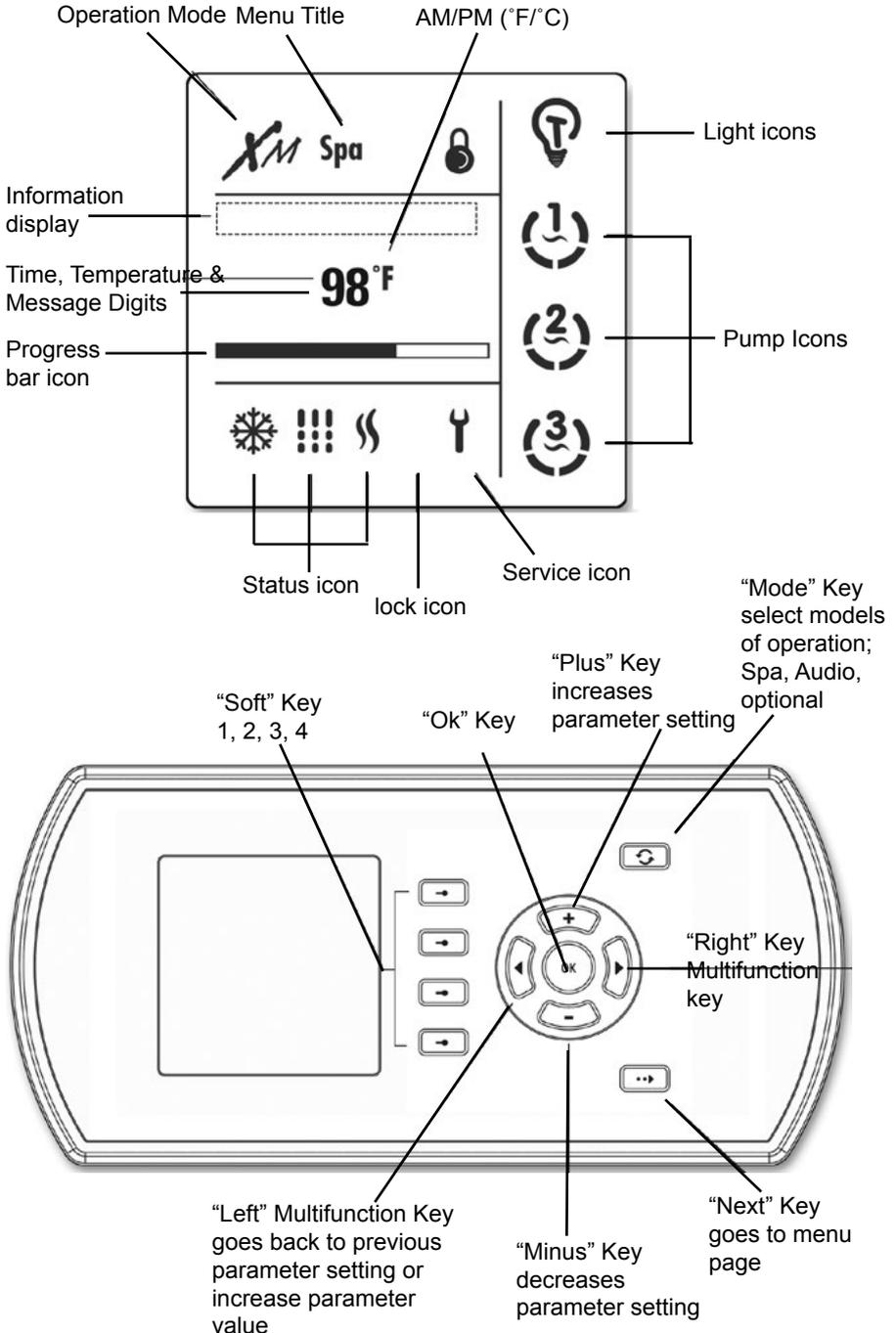
Oh

Water temperature in the spa has reached 108°F.

DO NOT ENTER SPA WATER!!!

- Measure the temperature with a digital thermometer and compare its reading with temp on the display. If temp reading is different, replace heater.
- Remove spa cover and let spa cool down.
- Add cold water and lower filter cycles.
- If problem persists replace pack.

GENERAL XM2 CONTROL TOPSIDE

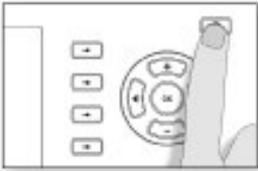


GENERAL XM2 MAIN SPA FUNCTIONS

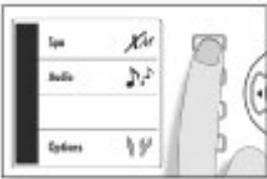
Water Temperature



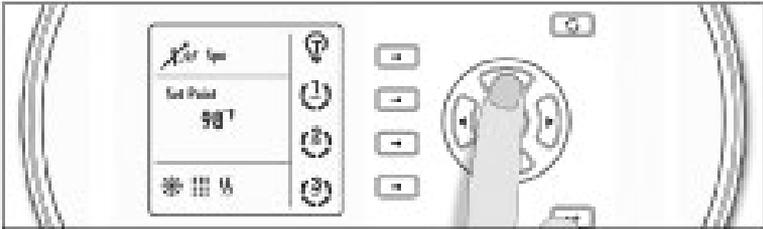
This menu allows control of all pumps, blower and spa light, as well as the activation of the Economy and Standby modes. Every time a device is on, its animated icon is displayed. All pump activity can be stopped at once by activating the Standby mode.



Press **Mode Key** to display yje mode Selection window.



Select **Spa** to view spa menu.



Water temperature setting

- Press Plus/Minus ky to select water temperature setting.
- Press OK key or wait 5 seconds to confirm new setting.
The “Set Point” prompt indicates the desired temperature NOT the current temperature

GENERAL XM2 MAIN SPA FUNCTIONS

Starting Light , Pumps and Blower



Starting Light

- Select **Light** key to turn **Light** on.
- Select **Light** key repeatedly to control **Light** intensity. A final selection turns the **Light** off.

(120 minutes built-in timer)



Starting Pump 1

- Select **Pump 1** to turn **Pump 1** on.
- Select **Pump 1** repeatedly to control **Pump 1** speeds.

(20 minutes built-in timer)



Starting Pump 2

- Select **Pump 2** to turn **Pump 2** on.
- Select **Pump 2** repeatedly to control **Pump 2** speeds.

(20 minutes built-in timer)



Starting Pump 3

- Select **Pump 3** to turn Pump 3 on.
- Select **Pump 3** once to control **Pump 3** off.

(20 minutes built-in timer)



Next Menu Page

- Press **Next** key to display the **Next** page in the spa menu.

*(Goes to **Blower** option)*



Starting Blower

- Select **Blower** to turn **Blower** on.
- Select **Blower** once more to turn **Blower** off.

(20 minutes built-in timer)

GENERAL XM2 MAIN SPA FUNCTIONS

Starting Economy Mode, Standby Mode, Display time



Turning Economy On

Lowers the temperature set point of the spa by 20 °F (11 °C).

- Select **Economy** to activate the **Economy** mode.
- Select **Economy** again to override **Economy** programming (see spa setup section)



Stand By Mode

Stops all pumps at the same time by a simple click of a button!

- Select **Standby** to activate this mode.
- Select **Standby** to again to resume normal operations.

System automatically returns to Normal mode after a certain period of time, unless the **Standby mode** has been reactivated. Spa light will flash for a few seconds before the exit of **Standby mode** and restart the pumps. The "**Standby**" message is also displayed during **Standby mode**.

**Pump will stay turned on if there is a request of more heat.*



Displaying Time

- Press **Ok** key to display the time.
- Press **Ok** key a second time to go back to water temperature display.



Viewing Active Progress Bars

A progress bar is a visual indicator of the time remaining before a device is turned off. Only one bar is displayed at a time.

- Use **Left** or **Right** keys to visualize the progress bar of each activated device.

GENERAL XM2 PROG. SPA FUNCTIONS

Programming - Filter Cycles



Programming Spa System

To program the filter cycle, you must enter these parameters; start time, duration and frequency. During a filter cycle, pumps run for one pump 1 runs for the programmed number of hours.

- Press Mode key
- Select options mode
- Select Spa sub-menu
- Select filter option



Setting Filter Cycles Start Time

The display will show the starting hour previously set.

- Use (+) or (-) key to select hour setting.
- Use Right key to set minutes
- Use (+) or (-) key to change minutes.
- Select Next arrow on screen menu to go to the next parameter; filter cycle duration.



Setting Cycle Duration

Here we set a value for the filter cycle duration, in hours and minutes.

- Use (+) or (-) key to set hour setting.
- Use Right key to set minutes
- Use (+) or (-) key to change minutes.
- Select Next arrow on screen menu to save changes and go to the next parameter; filter cycle frequency.



Setting Filter Cycle Frequency

Here we set the number of filtering cycles that the system will perform per day.

- Use (+) or (-) key to select frequency setting.
- Select enter option on screen menu to save changes and go back to spa options main menu.

GENERAL XM2 PROG. SPA FUNCTIONS

Programming - Economy Mode



Setting Economy Mode*

- Select Economy



Setting Economy Status

- Use (+) key to enable the economy mode, the display will show On.
- Use (-) key to disable economy mode, the display will show Off.



Setting Economy Start Time

- Select Next arrow on screen menu to save changes and go to economy cycle start hour.
- Use (+) or (-) key to set hour setting.
- Use Left key to access minutes option.
- Use (+) or (-) key to set minutes.
- Select Next arrow on screen menu to save changes and go to the next parameter stop economy.

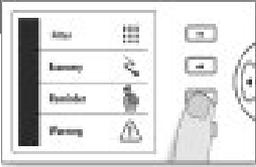


Setting Economy Stop Time

- Use (+) or (-) key to set hour setting.
- Use Left key to access minutes option.
- Use (+) or (-) key to set minutes.
- Select Enter option on screen menu to save changes and go to back to spa options menu.

GENERAL XM2 PROG. SPA FUNCTIONS

Programming - Reminders



Setting Maintenance Reminder Prompts

This menu allow you to activate / deactivate or simply reset the maintenance reminder prompts.

- Select Reminder option



Turning Reminders on/off*

- Use (=) or (-) o activate or deactivate

GENERAL XM2 TOPSIDE CONTROLS TERMS



Starting Light

- Select light key to turn lights on.
- Select light key again lights off.
(120 minute built-in timer)



Starting Pump 1

- Select pump 1 to turn pump 1 on.
- Select pump 1 once more to turn pump 1 off.
(20 minute built-in timer)



Starting pump 2

- Select pump 2 to turn pump 2 on.
- Select pump 2 once more to turn pump 2 off.
(20 Minute built-in timer)



Starting pump 3

- Select pump 3 to turn pump 3 on.
- Select pump 3 once more to turn pump 3 off.
(20 Minute built-in timer)



Next menu page

- Press next key to display the next page in the spa menu.



Starting blower

- Select blower to turn blower on.
- Select blower once more to turn blower off.
(20 Minute built-in timer)



Turning economy on

- Lowers the temperature set point of the spa by 20°F (11°C)
- Select economy to activate the economy mode.
 - Select economy again to override economy programming



Standby mode

- Stops all pumps at the same time by a simple click
Of a button!
- Select standby to activate this mode.
 - Select standby to again to resume normal operations.

GENERAL XM2 PACK DISPLAY DIAGNOSTIC MESSAGE

SPHr **A hardware error was detected in the in.xm pack**
Reset the spa pack by shutting the breaker off then on again, manually change the status of all the pumps and accessories. If the problem still persists, replace in.xm pack.

SPoT **The InXm's internal temperature is too high**
Remove spa skirt and let system cool down. A system reset may be required to clear error.

SPIn **The Input voltage is too low**
Was this error present since 1st power-up of the in.xm? If so, check the input terminal connections to make sure they are correctly wired and tight. Otherwise have a certified electrical verify the power line quality.

SPF1 **Fuse #1 is blown**
Replace the blown fuse with an identically rated fuse.

SPF2 **Fuse #2 is blown**
Replace the blown fuse with an identically rated fuse.

SPF3 **Fuse #3 is blown**
Replace the blown fuse with an identically rated fuse.

rHhr **A hardware error was detected in the in.therm.**
Restart the spa pack. Make sure the heater restarts by changing the set point. If problem still persists, replace in.therm

rHnH **The error occurs if the in.therm is trying to heat water, but does not detect any temperature rise.**
Make sure the in.therm power cord is correctly inserted and sealed in the in.xm. Restart the system. The system will perform a flow check. If the error code appears before any temperature is displayed, replace in the in.therm.

rHnF **Occurs when a "no flo" condition is detected by the in.therm.**
Make sure that the pump associated to the heater (pump #1 or Circulation Pump) is running. Check and clean filters. Make sure water valves are open. Make sure there is no air lock condition or any object obstructs passage of water within the in.therm.

rHnC **This code occurs when a communications problem exists between the in.xm and in.therm.**
Make sure remote heater cable is correctly connected; then reset system. If condition persists, visually verify male connector pins to make sure they are not bent. If the above does not solve problem, either in.xm or in.therm may need to be replaced.

GENERAL XM2 PACK DISPLAY DIAGNOSTIC MESSAGE

rHHL

The high limit circuit is tripped. Usually, the kinetic heating protection or the current monitoring circuitry will shut down the heater before the error can occur.

Add cold water to spa and let heater cool down. Reset spa pack using current breaker.

rHPr

Temperature probe defective.

This error clears itself when the error condition is no longer present. Reset the breaker if the error is still there; replace the In.therm

rHId

The ID number of the in.therm vs the In.xm is wrong (CE/UL)

There is a CE In.Therm connected to a UL In.xm or vice versa. Change the In.Therm or In.Xm to the appropriate version.

P1Er

For all the above, the system has not detected a current change when turning on or off the device.

P2Er

Make sure the device is correctly connected and plug is sealed. If possible, manually change the output status (on/off) of the device and cycle through all possible states (i.e low and high speeds). Reset spa pack. If error does not clear, problem is probably with the device and will need to be serviced.

P3Er

CPEr

bLEr

Sc

This is not an error message

A solid Sc means the system is scanning all the output to learn the current draw of every accessory connected.

ScEr

A scan error was detected

Every time a low-level option is changed, the system must "learn" the currents associated to each output/load. During this learning process, the device(s) connected to OUT8 (direct output, no relay) must be disconnected (or off). If, not the system will report this code. Once the load is correctly disconnected, the breaker has to be reset then the user needs to restart the learning process by selecting the low level configuration and set the breaker. Once the learning if finished, the accessories connected to OUT8 may be reconnected.

br

This is not an error message

The breaker size selected is lower than the total current of each output. The In.xm will manage the current accordingly.

TROUBLE SHOOTING GUIDE

No heat or heat too low

- Probable Cause #1 Dirty filter.
Action Remove filter cartridge and clean.
- Probable Cause #2 Breaker at house off.
Action Reset breaker at house. Breaker can appear to be on and one pole can be off. Turn breaker OFF then ON twice.
- Probable Cause #3 Pump not primed.
Action Refer to the section of this manual on pump priming.
- Probable Cause #4 Improper line voltage.
Action Have a licensed electrician check the line voltage.

Spa Lights won't come on

- Probable Cause #1 Light bulb burned out.
Action Replace bulb (non-warranty).
- Probable Cause #2 Dirty connection.
Action Check to see if there is anything covering the connection on the housing that holds the light bulb.

Pump will not prime

- Probable Cause #1 No water in pump.
Action Make sure water level in spa is correct.
- Probable Cause #2 Closed gate valves or blocked lines.
Action Open all gate valves. Check suction for blockage.
- Probable Cause #3 Pump surges, jets lose and gain power, loose union or drain plug.
Action Check union on front or nose of pump to ensure tightness. Check drain plugs to ensure tightness.

Jet(s) won't come on

- Probable Cause #1 Pump not primed.
Action Refer to the section of this manual on pump priming.
- Probable Cause #2 Gates valves closed.
Action Check to see if gate valves are in the correct position. Check to see that pump is plugged in.
- Probable Cause #3 Water diverter valve not adjusted correctly.
Action Turn water diverter Valve until desired water flow is obtained.
- Probably Cause #4 Individual jet is closed.
Action Turn the outer jet housing clockwise to turn jet on.

Low water flow

- Probable Cause #1 Dirty Filter.
Action Remove filter cartridge and clean.
- Probable Cause #2 Closed gate valves or blocked lines.
Action Open all gate valves.
- Probable Cause #3 Low voltage or incorrect voltage.
Action Have a licensed electrician check the line voltage.

TROUBLE SHOOTING GUIDE (CONT.)

Spa is leaking

Probable Cause #1 Loose connection.

Action..... Hand tighten all disconnects and fittings.
Check joints and unions.

Motor does not run

Probable Cause #1 No power to motor.

Action..... Check power switches and circuit breakers.
Check motor plug where plugged into control box.

Probable Cause #2 Pump jammed from foreign matter in impeller.

Action..... Call dealer for recommended action.

Probable Cause #3 Motor overheats on hot days while filtering.

Action..... Reprogram your controls to cycle during the
coolest parts of the day and on shorter cycles.
(see programming instructions).

Motor runs hot

Probable Cause #1 Pump ran dry.

Action..... Call dealer for recommended action.

Probable Cause #2 Restricted suction lines.

Action..... Make sure all valves are open/clear suction of debris.

Probable Cause #3 Improper ventilation

Action..... Insure that vents on side of spa are free and clear
of any debris or landscaping. Spa should also be
located an adequate distance from any walls or
fencing for good ventilation.

Stereo Issues Please refer to manual (provided)

TV issues Please refer to manual (provided)

NOTE!

**Note: These motors will feel hot to the touch. This is normal.
The Overheat Sensor will turn the motor off if there is an over-
load or high temperature problem.**

NOTES

NOTES

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 register your spa - ask your dealer about registering. Spa 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 acts of God, wear and tear, or improper water maintenance. Unauthorized modifications of the spa may void the warranty. Replacement costs associated with transportation, removal, and reinstallation are the sole responsibility of the spa owner.

Dynasty Spas 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.

Disclaimer:

The information in this manual is accurate to the best of Dynasty Spas. However, Dynasty Spas, Inc. assumes no responsibility for errors or omissions. Nor is any liability assumed for damages resulting from use of the information contained herein.

At the time of print, this manual is accurate in its information. Dynasty Spas reserves the right to change to improve its product without prior notice. To check on updated or for other informaion, please visit www.dynastyspas.com and follow the links to the owners club section.

Safety Sign

The safety sign enclosed with your owner's manual packet should be permanently installed where visible to all users of the spa. 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:

Dynasty Spas
101 Dynasty Way
Athens, TN 37303
866-396-7727

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Installer

Company: _____

Address: _____

Phone: _____

Warranty Submission Date: _____

**PLEASE ASK YOUR DEALER ABOUT REGISTERING
YOUR WARRANTY**

Model: _____

Serial Number: _____

Equipment Pack: _____

Color: _____

Date of Delivery: _____

Spa Manufacturer
1815 Milton Rd.
Athens, TN 37303

