



PLATINUM ELITE CLASS



OWNER'S MANUAL

PLATINUM ELITE CLASS



ARTESIAN SPAS

WWW.ARTESIANSPAS.COM

Part # 11-0086-11

This manual covers the following spas

PIPER GLEN



PELICAN BAY



DOVE CANYON



QUAIL RIDGE



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Congratulations...

Congratulations on the purchase of your new Platinum Elite spa by Artesian. We know you will enjoy your spa. Although spas are relaxing and fun, we believe they can be an indispensable part of a healthy lifestyle. The spa lifestyle is one that encourages health and well-being.

Owning a spa brings some responsibility. With proper care, your spa will provide years of enjoyment and therapy for your family and friends. Please take time to read and understand all of the instructions provided before you install your Artesian spa. This owner's manual is meant to be a supplement to the training you should receive from your dealer when you purchase and start up your spa for the first time.

Please remember your spa is a powerful piece of electrical equipment. It is extremely important that you have it properly installed to ensure safe use. This manual explains safety precautions, installation instructions, and operating and maintenance procedures. If you have any questions regarding this manual, please call your competent Artesian spa dealer, who will be happy to further assist you.

Before you do anything else, make sure you visit our website at www.artesianspas.com and register your new Artesian spa.

For your future reference and convenience, please record the Serial and Model number along with the installation date in the spaces provided below. **STORE THIS MANUAL WHERE YOU CAN EASILY FIND IT WHEN NEEDED.** The serial and model numbers are mounted on the base of the equipment enclosure area, as shown below.

Spa Serial Number _____

Spa Model Number _____

Spa Installation Date _____

Dealer Name, Address, and Telephone Number

Diagram of Where to Find Serial Number



Serial Number Information

SAFETY WARNINGS

PLEASE TAKE THE TIME TO READ ALL OF THESE WARNINGS AND CAUTIONS PRIOR TO USING YOUR SPA

PLEASE, be a responsible spa owner. When installing and using this spa, always adhere to basic safety precautions. Be sure to list emergency telephone numbers at the telephone nearest the spa, including physician, hospital, ambulance, police, and the fire department. Be certain to explain safety precautions to all new or occasional users of your spa. Remember, they may not be aware of the possible risks associated with the spa water temperature.

Have at least one family member learn CPR (cardiopulmonary resuscitation). **IT COULD SAVE A LIFE!**

1. READ AND FOLLOW ALL INSTRUCTIONS!

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

3. A wire connector is provided on this unit to connect a minimum 8 AWG (8.4 mm) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit.

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

5. **DANGER - Risk of Injury** - The suction fittings in this area 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 the flow rates are compatible.

Never operate spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

6. **DANGER - Risk of Electrical Shock** - Install at least 5 feet (1.5 m) from all metal surfaces. As an alternative, a spa may be within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 8 AWG (8.4 mm) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.

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

SAFETY WARNINGS cont...

8. WARNING - To reduce the risk of injury:

- a) The water in a spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 40°C are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
- b) Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 38°C (100°F).
- c) Before entering a spa, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature regulating devices varies.
- d) The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
- e) Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.
- f) Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

AUDIO COMPONENT WARNINGS










Spas equipped with the Audio system should follow these guidelines for safety:

- 1. **CAUTION** - Risk of Electrical Shock - Do not leave compartment door open.
- 2. **CAUTION** - Risk of Electrical Shock - Replace components only with identical components.
- 3. Do not operate the audio controls while inside the spa.
- 4. **WARNING - Prevent Electrocutation** - Do not connect any auxiliary components (for example cable, additional speakers, headphones, additional audio/video components, etc.) to the system.
- 5. These units are not provided with an outdoor antennae; when provided, it should be installed in accordance with Article 810 of the National Electrical Code, ANSI/NFPA 70.

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

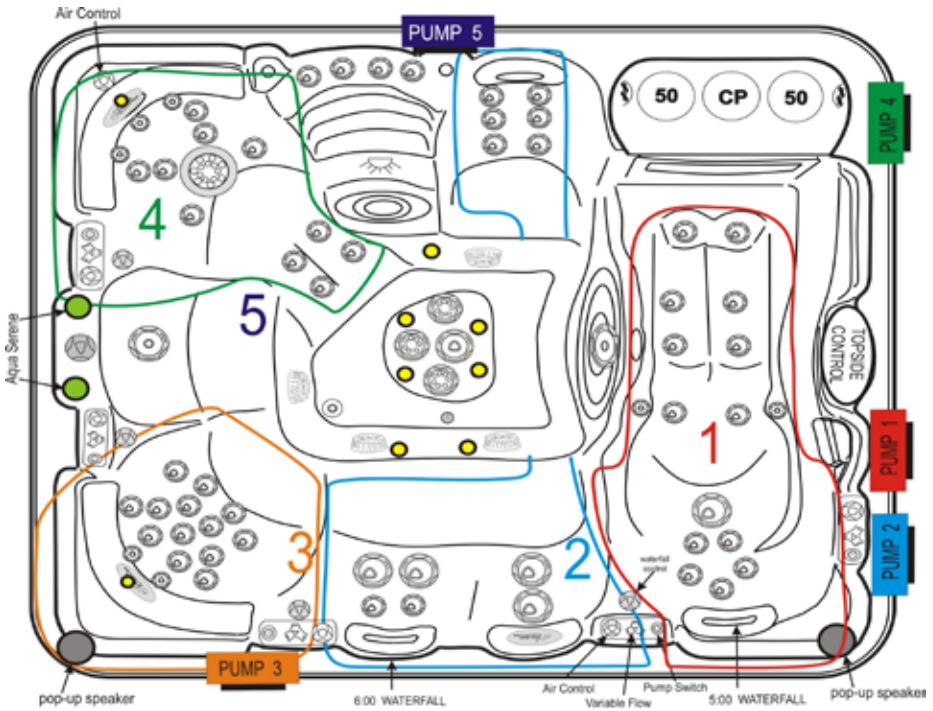
KEEP THESE SAFETY INSTRUCTIONS IN A CONVENIENT AND READILY ACCESSIBLE LOCATION!!

LINE DRAWING KEY

Name of Component	Symbol for Component
5" Helix Ddirect W / ESC	
5" Helix MSSG W / ESC	
5" Helix Roto W / ESC	
3" Helix Roto W /ESC	
2" Helix Direct	
Helix Whirlpool	
7" Jumbo Storm Massage W / ESC	
Jet Floor Sweeper	
Ozone / Drain Jet SS	

Line Drawings may not be exact models of your particular spa. Certain options may be shown that are not included on your spa.

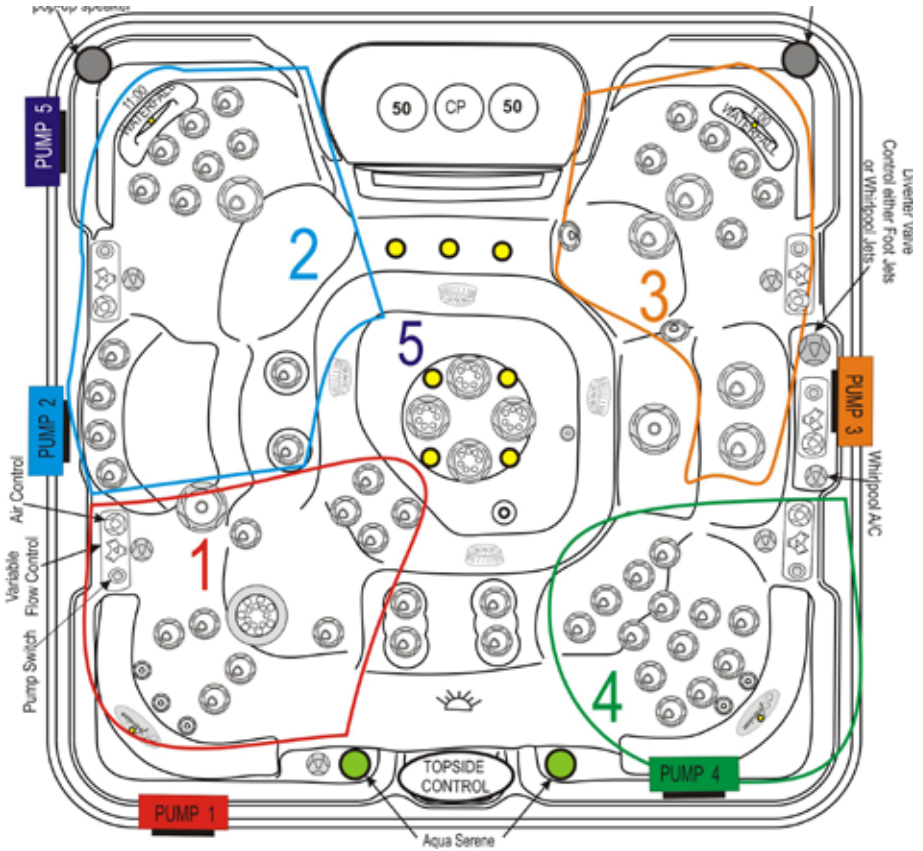
SPA CONFIGURATION AND WATER CAPACITY



PELICAN BAY

Volume	550 gal	2082 l
Weight (dry/filled)	1170/5755 lbs	531/2610 kg
Dimensions	108x92x37in	274x234x94 cm
Control	in.XM	in.XM
Heater	4kW in.THERM	3.6kW in.THERM
Circulation System	Laing Hi-Flo	Laing Hi-Flo
Ozone	CD	CD
Cartridge Filter	2	2
Disposable Filter	1	1
6" Waterfall	2	2

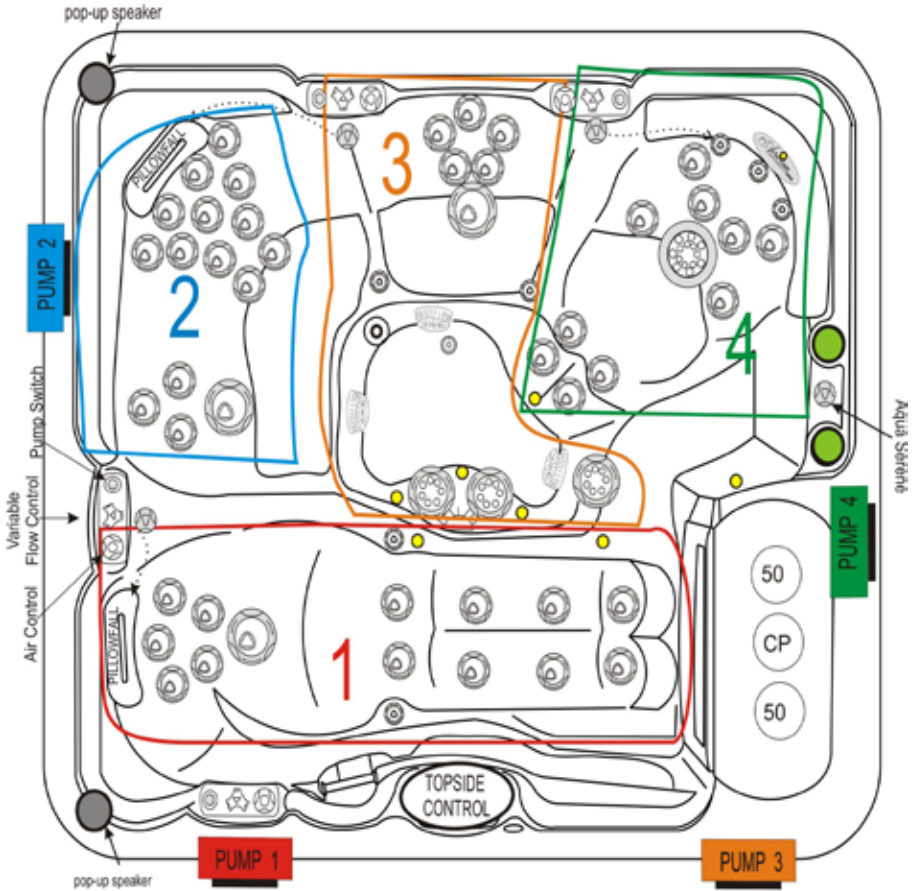
SPA CONFIGURATION AND WATER CAPACITY



PIPER GLEN

Volume	505 gal	1514 l
Weight (dry/filled)	1120/5330 lbs	508/2418 kg
Dimensions	92x92x37in	234x234x94 cm
Control	in.XM	in.XM
Heater	4kW in.THERM	3.6kW in.THERM
Circulation System	Laing Hi-Flo	Laing Hi-Flo
Ozone	in.Zone, CD	in.Zone, CD
Cartridge Filter	2	2
Disposable Filter	1	1
6" Waterfall	2	2

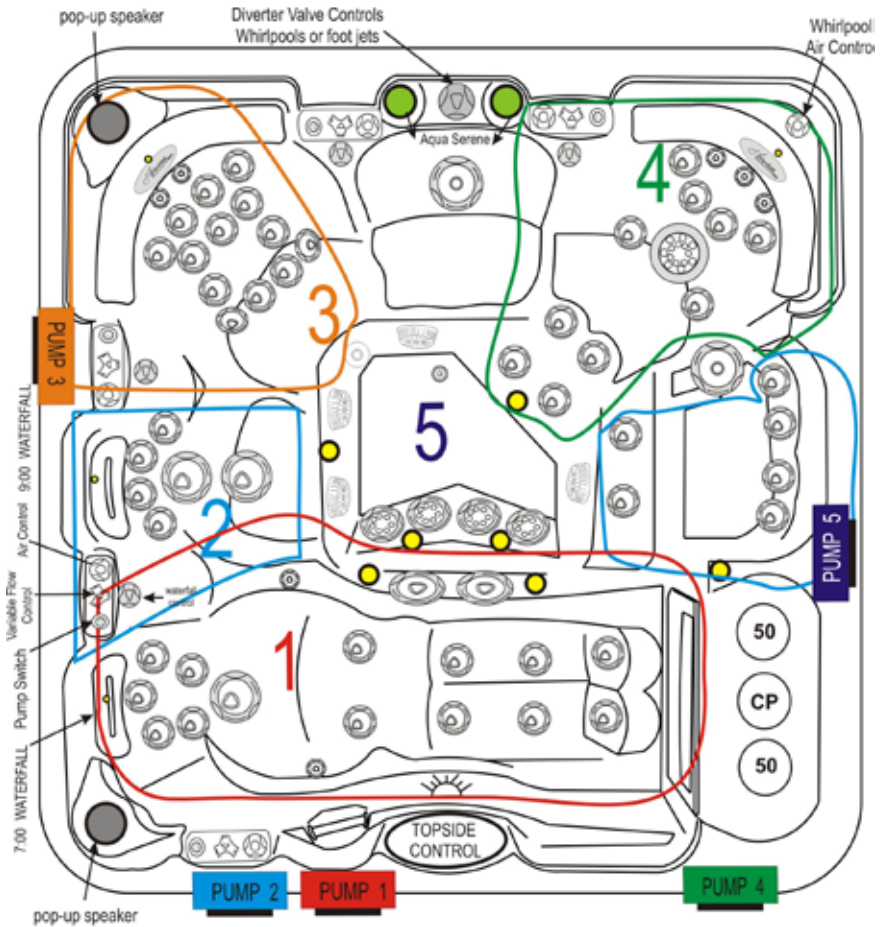
SPA CONFIGURATION AND WATER CAPACITY



QUAIL RIDGE

Volume	345 gal	1174 l
Weight (dry/filled)	900/3776 lbs	408/1713 kg
Dimensions	92x79x34in	234x196x86 cm
Control	in.XM	in.XM
Heater	4kW in.THERM	3.6kW in.THERM
Circulation System	Laing Hi-Flo	Laing Hi-Flo
Ozone	CD	CD
Cartridge Filter	2	2
Disposable Filter	1	1
6" Waterfall	2	2

SPA CONFIGURATION AND WATER CAPACITY



DOVE CANYON

Volume	475 gal	1514 l
Weight (dry/filled)	1050/5010 lbs	476/2272 kg
Dimensions	92x92x37in	234x234x94 cm
Control	in.XM	in.XM
Heater	4kW in.THERM	3.6kW in.THERM
Circulation System	Laing Hi-Flo	Laing Hi-Flo
Ozone	CD	CD
Cartridge Filter	2	2
Disposable Filter	1	1
6" Waterfall	2	2

ELECTRICAL REQUIREMENTS AND INSTALLATION

The following information is provided for hooking up electrical supply to your new spa. A qualified, licensed, electrician must perform this work. Failure to follow these instructions will terminate all warranty coverage and can cause serious injury or death.

Your 60 Hz Artesian spa is preset at the factory to run on 240V with a 48 amp input. This feature gives you the most performance out of your spa. This will require a 240V, 60-amp GFCI. If a 60-amp service is not available, your spa can be made to run with 32 or 40 amps input rating. Press the SELECT key on the spa control pack to change the input rating.

Your export 50 Hz Artesian spa is preset out of factory to run 230V-240V 3 wires 30 amp max input. This product must always be connected to residual current device (RCD) having a trip current of not more than 30 mA.

ELECTRICAL WIRING

WARNING: Your spa must be wired by a certified electrician and according to these instructions. Failure to do so will terminate all warranties and all listings from the independent listing facility.

- 1) The Platinum Elite Class Spa requires a 240 VAC dedicated system. The spa must be hard wired to the power supply, with no plug-in connections, extension cords, or sharing of service.

- 2) The spa requires that you run 6 (10 mm²) or 8 (8.4 mm²) AWG copper wire, depending on the GFCI size. Do Not Use Aluminum Wire.

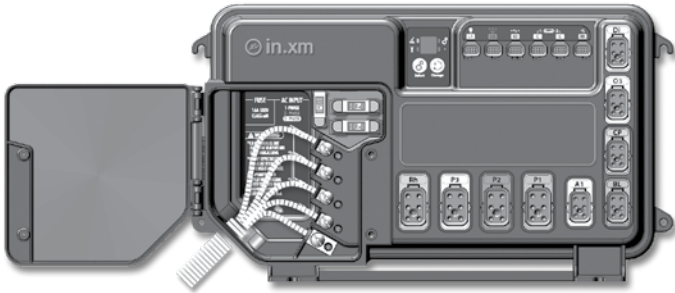
- 3) The power supply must have a suitable Ground Fault Circuit Interrupter (GFCI), according to Section 422-20 of the National Electrical Code, ANSI/NFPA 70-7987 or other national installation requirement with a residual current device (RCD) having a trip current of not more than 30 mA. This could be used as the shut-off switch, which must be installed in plain view of the spa. This electrical service must be readily accessible to the spa occupants, but must not be within 5 feet of the spa.

- 4) Use only non-metallic conduit and fittings when installing power to the spa.

- 5) After your spa has been positioned, route lines through the knockout on the left or right front corner of the spa.

- 6) Connect the power to the spa.

50Hz Electrical Wiring Diagram



Pack Terminal Block from GFCI MUST BE DONE BY A CERTIFIED ELECTRICIAN

- 1) The black and red wires from the main electrical box* must be connected to the input lugs in the GFCI.
- 2) The white wire from the main electrical box* must be connected to the dedicated neutral bar inside the GFCI box.
- 3) The green or copper wire from the main electrical box* must be connected to a separate dedicated ground bar inside the GFCI box.
- 4) The red and white wires from the spa connect to the GFCI breaker output terminals.
- 5) The white wire from the spa must connect to the center load terminal ON THE GFCI BREAKER, usually behind the white pig-tail on the breaker itself
- 6) The white pig-tail from the GFCI breaker must connect to the dedicated ground bus inside the GFCI breaker box.
- 7) The green or copper wire from the spa must connect to the dedicated ground bus inside the GFCI box.

*Main electrical box refers to the house distribution panel and not the GFCI

Electrical wiring



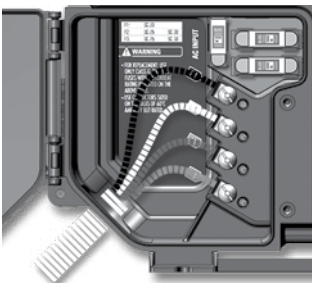
Main electrical box

GFCI panel



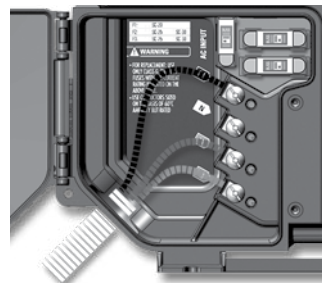
Warning!

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



For 240 VAC (4 wires)

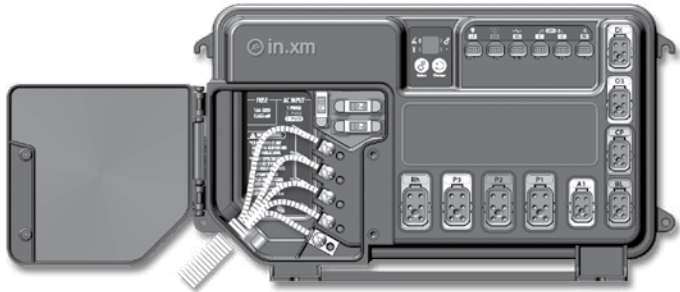
Correct wiring of the electrical service box, GFCI, and pack terminal block is essential. Call an electrician if necessary.



For 240 VAC (*3 wires)

*If connected to a 3 wire system (without neutral), all 120 VAC components will not work.

Electrical wiring 50 Hz



Warning!

This product must always be connected to a circuit protected by a residual-current device (RCD) having a rated operating residual-current not exceeding 30 mA.

Proper wiring of the electrical service box, RCD and in.xm.ce terminal block is essential!

Check your electrical code for local regulations. Only copper wire should be used, never aluminum.

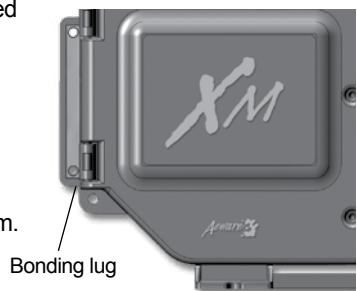
To install the wiring for the in.xm.ce spa control, you'll need a Phillips screwdriver, a 14 mm (9/16") nut driver or a flat screw-driver. Loosen the 2 screws of the spa pack door and open it. Remove 200 mm (8") of cable insulation. Strip away 25 mm (1") of each wire insulation. Pull the cable through the cutout of the box and use an IEC certified plastic bushing that will maintain the IPX5 rating. Also, the power cord must be in accordance with the national electrical code of the country in which it's to be installed and must maintain IPX5 rating. 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, use the 14 mm (9/16") wrench or flat screwdriver to tighten the bolts 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 left side of the in.xm.ce spa pack (a grounded electrode conductor shall be used to connect the equipment grounding conductors).

Important!

CE and UL /CSA parts are not interchangeable!

This note applies to all in.xm.ce spa packs, in.therm.ce heating systems & in.link connectors.



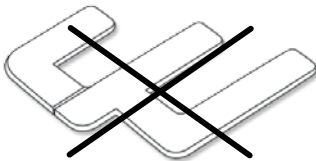
Electrical wiring 50 Hz



Case 1

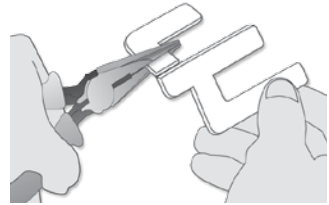
The installation of electrical circuit jumpers is needed in certain input supply configurations.

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



Case 3

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



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:

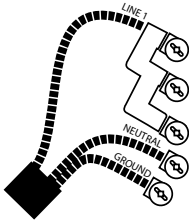
Use a pair of pliers to firmly hold the upper half of the metal jumper, then break off the other half.



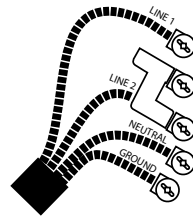
Important!

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

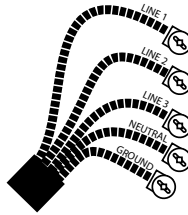
Electrical wiring 50 Hz



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.ce 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.

SPA START-UP

Please read each step of the Start-up section prior to doing the step.

SELECTING A LOCATION

In preparation for installing your new Artesian spa, you should ensure that your chosen location meets some minimum guidelines:

1) Place your spa on a surface that is large enough for the entire spa to fit. Consider the space needed to easily access equipment compartments and circuit breakers. Remember, all electronics must be kept dry.

2) The spa must be on a solid, level foundation. Recommended: 4 in cement slab that has cured for at least 72 hours. Your warranty will be voided if the spa is not properly installed. Structural damage due to an improper foundation is not covered under warranty.

3) To avoid potential water damage to the skirt and frame, your spa should be placed on a site where it will not be in the way of water sprinklers.

(4) OUTDOOR SPAS: Consider building codes, electrical and plumbing codes, desired proximity to house, wind and sun exposure, location of trees (falling leaves, shade), dressing area, landscaping and lighting when selecting a location.

5) INDOOR SPAS: Floor surface must have traction to prevent slipping when wet. A floor drain is optimum. As room humidity will increase because of the spa, provide ample ventilation to prevent dry rot, mildew and mold. Use materials that will withstand humidity. There may be a need for cross-ventilation fans and/or dehumidifiers. The spa chemicals may corrode some household metals. Provide ample room if servicing should be needed. Strong foundational support is vital, particularly if a second-story site is selected.

6) Ensure the equipment compartment is in a location where it will not be damaged by water drainage. Cover the equipment compartment with a heavy screen if rodents are a problem. Damage due to rodents is not covered under warranty.

7) Have the spa deck installed by a knowledgeable contractor to ensure proper support.

8). If the spa is placed on the ground, even for a short period of time, it must be supported by stones that are at least 2 inches thick and 12 inches square. A solid foundation is recommended as soon as possible.

INSPECTION

You will want to inspect your spa, prior to filling it up with water. Look for and remove any debris in the spa tub and in the filter. Verify that pump plugs are installed on the pumps and the pump unions are tight.

FILLING THE SPA WITH WATER

NOTE: DO NOT fill your spa with hot water straight out of your water heater or tap. This water may be as hot as 180 degrees F and will cause damage to the surface and plumbing of the spa. This will void your warranty. Level the spa before filling.

- 1) Prepare to fill the tub by removing all debris.
- 2) Remove the filters from your spa (see Removing, Installing and Cleaning Filters, page 30.)
- 3) Place your garden hose in the center of the filter as shown in the picture below.



SPA START-UP cont...

FILLING THE SPA WITH WATER cont...

4) Fill the tub from the circulation pump line until water level is above the foot-well.

Note: This will purge all the air out of the circulation pump. An air lock can cause damage to the circulation pump and is not covered under warranty.

5) Once the water level is filled over the foot-well, you can pull the hose out of the filter line and continue filling the spa from the filter well.

6) Fill the spa to the bottom of the pillows. **Note: DO NOT OVER-FILL YOUR TUB!**

7) With the front panel off, verify there are no leaks at the pump union. **Note: Pump unions can become loose during shipping. Verify that there are no leaks during filling of the spa.**

8) Reinstall the circulation pump screen and all filters.



TURNING THE POWER ON

Turn the power to the spa on at the main circuit breaker. Verify that your spa has no error codes. (See page 47) Verify that there is good water circulation in the spa. The pumps will come on in cycles, for 1 minute each cycle.

VERIFYING WATER CIRCULATION

- 1) Open all the jets.
- 2) Press the Pump 1 key to turn the pumps on or off.
- 3) Make sure each seat has water flow. Note: On certain spas there is a diverter valve. Verify where the diverter valve is located.

TESTING THE GFCI BREAKER

NOTE: The electrical service panel for your spa should be equipped with a GFCI breaker. To avoid the risk of electrical shock, perform the following safety test before each use of your spa.

- 1) Make sure the power is turned on at the electrical service panel.
- 2) Turn on the GFCI breaker. If the breaker stays on, it is functioning properly.

DANGER: RISK OF ELECTRICAL SHOCK

If the GFCI breaker fails to operate as described, there is a possibility of an electrical shock if the spa is used. Shut off the power at the main electrical service panel until the source of the problem has been identified and corrected by a licensed electrician or qualified spa technician.

SPA START-UP cont...

TESTING THE GFCI BREAKER cont...

NOTE: When power is turned on, your spa is automatically programmed to start circulating water through the circulation pump. Each pump and/or blower will come on consecutively for approximately 1 minute to automatically purge the system. Adjust your temperature by pressing the up button on your touch pad until the desired temperature is displayed. This setting will allow your spa to heat to the set temperature.

CAUTION: *If water is not noticeably coming from your spa jets during the automatic purge, turn on the high speed pump. If water is still not coming from the jets, the pump needs to be manually primed, following the steps below.*

PRIMING THE PUMP

- 1) Turn off power at electrical service panel.

- 2) Locate and loosen one of the pump plugs on each pump by turning it counterclockwise one half of one turn.

- 3) Allow air to escape from fittings. When a steady stream of water flows from the pump plug, close it by turning it clockwise until tight.

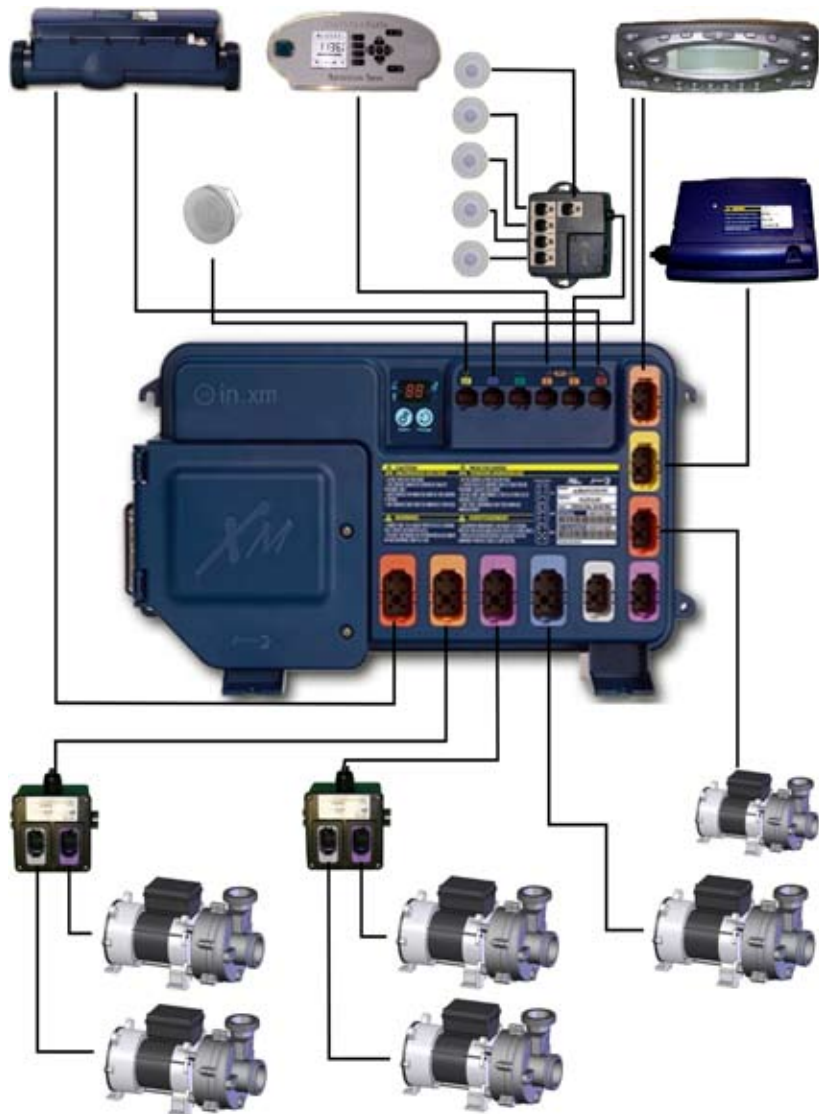
- 4) Turn on power at electrical service panel.

- 5) Check once more to make sure that water is flowing from the jets during auto purge. If so, continue. If no water is coming from your spa jets, please call your Artesian dealer for further assistance.

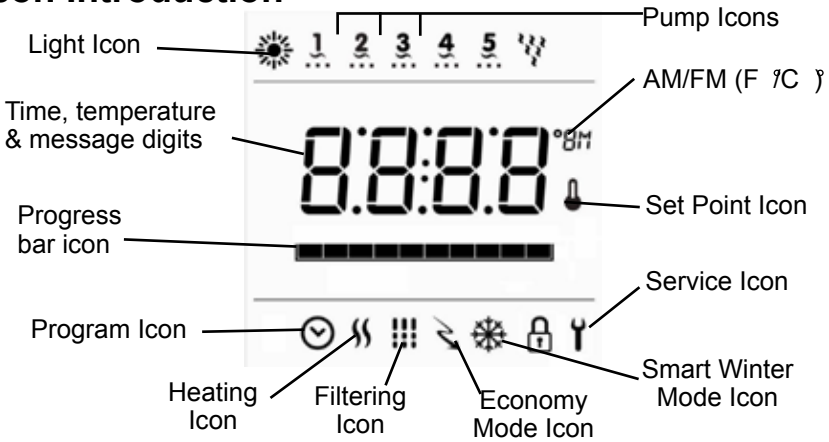
WATER PREPARATION

NOTE: Before putting your new spa into operation, understand that preparing your new water is an important part of maintenance. Failure to properly prepare your water can result in substantially decreasing the life of the components and may void your warranty in severe cases. Your Artesian dealer should have a start-up and maintenance kit available for you when you receive your spa.

IN.XM Controller Diagram

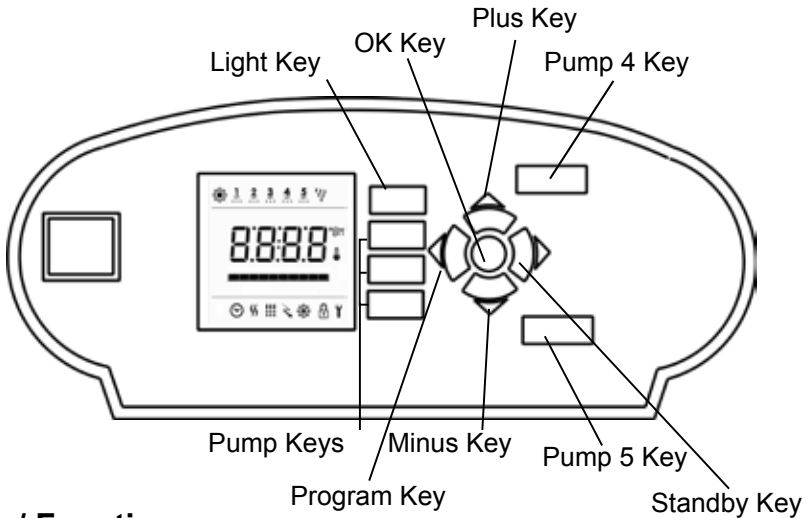


Icon Introduction



Icon	Description
	Light icon: The "Light" icon lights up when the light is on.
	Pump icons: The "Pump" indicator numbers light up and their icons become animated when pumps are on.
	Service Icon: A problem has been detected. Do not enter the water! Spa service is required.
	Smart winter mode icon: The "SWM" icon automatically turns on when freeze protection is active. It flashes while system purges the spa plumbing.
	Economy mode icon: The "Economy" icon lights up when filter cycle is on.
	Filter Cycle icon: The "Filter cycle" icon lights up when filter cycle is on. It flashes when filtering is suspended.
	Heater icon: The "heater" icon lights up when the heater is on. .
	Progress Bar: A visual indication of the time remaining before equipment is turned off or before the end of the standby mode.
	Program icon: The "program" icon lights up when Programming.
	Set Point icon: The "Set Point" icon automatically turns on when set point setting menu is activated. (SP message on display) ...It flashes when 1) there is a call for heat and heater has not started yet ...2) heater has just turned off and element is cooling down....3) if system is performing a flow check.

Keypad Introduction



Key / Function

STANDBY KEY

Standby Mode: When this feature is activated, it allows all pumps to stop at the same time by a simple click of a button! Use the On/Off key to pause all pumps. Progress bar will display the remaining time before the system automatically exits Standby Mode (user can also exit Standby Mode at any time by pressing again the On/Off Key). In order to warn the user, the spa light will flash for a few seconds before the exit of Standby Mode and restart the pumps. The “Stby” message is also displayed during Standby Mode.

PUMP 1 KEY

- Press Pump 1 key to turn Pump 1 on at high speed. Press a second time to turn Pump 1 off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

PUMP 2 KEY

- Press Pump 2 key to turn Pump 2 on at high speed. Press a second time to turn Pump 2 off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

PUMP 3 KEY

- Press Pump 3 key to turn Pump 3 on at high speed. Press a second time to turn Pump 3 off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

Key / Function

PUMP 4 KEY

- Press Pump 4 key to turn Pump 4 on at high speed. Press a second time to turn Pump 4 off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

PUMP 5 KEY

- Press Pump 5 key to turn Pump 5 on at high speed. Press a second time to turn Pump 5 off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

LIGHT KEY

- Press Light key to turn light on at high intensity. Press a second time to turn light off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

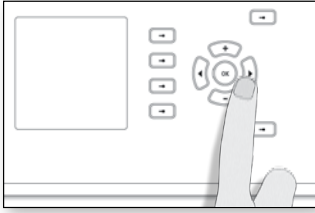
+ / - KEYS

- Use (+) or (-) key to set desired water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection. The "Set Point" icon indicates that the display temperature shows the desired temperature, NOT the current water temperature.

PROGRAM KEY

Use program key to display time or enter Programming menu by pressing and holding key. In Programming mode, the following parameters can be set: time, filter's cycle start time, duration and frequency. Also, Economy mode's start time as well as its end time and finally, the choice of temperature display unit.

SPA FUNCTIONS

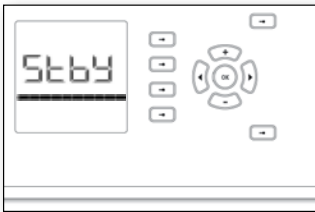


Standby key

Standby Mode: When this feature is activated, it allows to stop all pumps at the same time by a simple click of a button!.

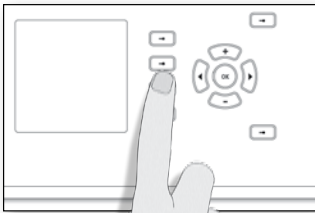
Use On / Off key to pause all pumps*

Progress bar will display the remaining time before the system automatically exits Standby mode (user can also exit Standby mode at any time by pressing again on On / Off key.)



In order to warn the user, the spa light will flash for a few seconds before the exit of Standby mode and restart the pumps. The "Stby" message is also displayed during Standby mode.

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

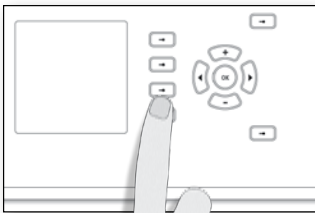


Pump 1 key

Press Pump 1 key to turn Pump 1 on at high speed.

Press a second time to turn pump off.

A built in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first

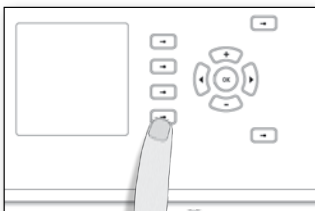


Pump 2 key

Press Pump 2 key to turn Pump 2 on at high speed.

Press a second time to turn pump off.

A built in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first

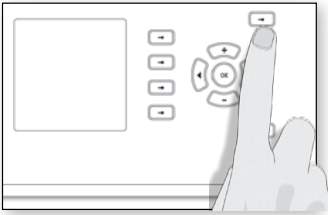


Pump 3 key

IPress Pump 3 key to turn Pump 3 on at high speed.

Press a second time to turn pump off.

A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first

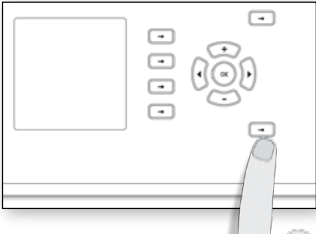


Pump 4 key

Press Pump 4 key to turn Pump 4 on at high speed.

Press a second time to turn pump off.

A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first

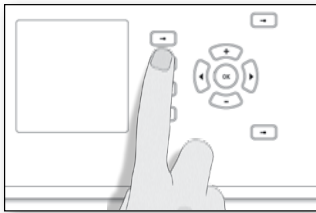


Pump 5 key

IPress Pump 5 key to turn Pump 5 on at high speed.

Press a second time to turn pump off.

A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first

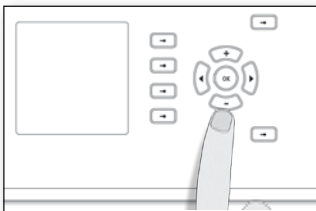


Light key

Press Light Key to turn light on at high intensity.

Press a second time to turn light off.

A built-in timer automatically turns light off after 2 hours, unless it has been manually deactivated first,

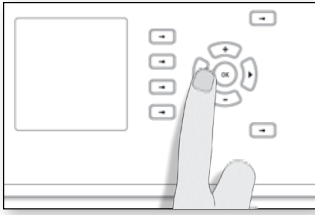


+ /- keys

Use (+) or (-) key to set desired water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.

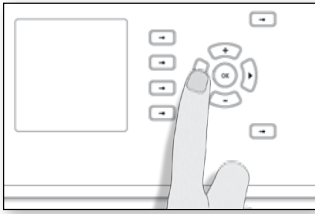
The "Set Point" icon indicates that the display shows the desired temperature, NOT the current water temperature!

BASIC PROGRAMMING



Program key

Use Program key to display time or enter Programming menu by pressing and holding key. In Programming mode, the following parameters can be set: time, filter cycle's start time, duration and frequency, also, Economy mode's start time as well as its end time and finally the choice of temperature display unit.



Setting the time

Enter Programming mode by holding Prog. key pressed down for 3 sec. The display will show the current time setting.

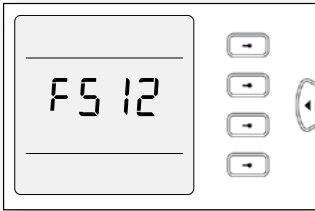
Setting the hour:

Use (+) or (-) key to change hour setting (AM/PM).

Setting the minutes:

Press Ok key.

Use (+) or (-) key to change minutes setting.

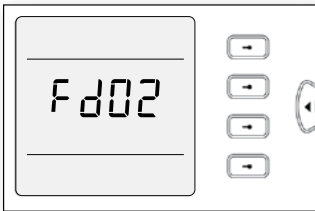


Setting Filter cycle start time

To program the filter cycle, you must enter these parameters: start time, duration and frequency. During a filter cycle, pumps run for one minute to purge the plumbing, then CP runs for the programmed number of hours and the ozonator is activated. Press Ok key a second time.

The display will show FSxx, with "xx" representing the starting hour.

Use (+) or (-) key to change setting (01:00-12:00 AM / PM).



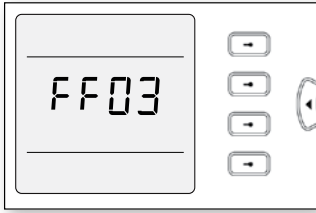
Setting Filter cycle duration

Setting of the Filter cycle duration in hours. If no filtering is required, the duration should be set to "0".

Press Ok key a third time.

The display will show Fdxx, with "xx" representing the duration in hours.

Use (+) or (-) key to change setting (00:00-23:00 hrs).

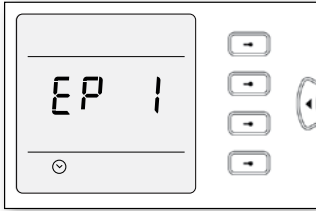


Filter cycle frequency

Press Ok key a fourth time.

The display will show FFxx, with "xx" representing the number of filter cycles per day (up to 24 depending on selected duration).

Use (+) or (-) key to change setting.



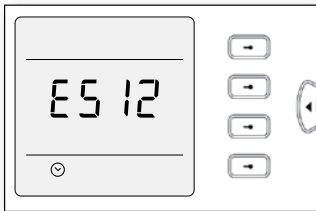
Setting Economy mode

The Economy mode allows you to lower the temperature set point of the spa by 20 °F (11 °C) during a certain period of the day.

Press Ok key a fourth time.

Use (+) key to enable the economy mode, the display will show EP 1.

Use (-) key to disable economy mode, the display will show EP 0.



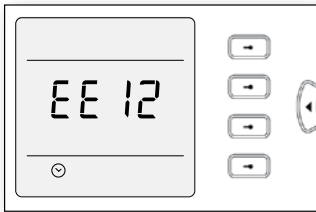
Setting Economy start time

To program the Economy mode, you must enter two parameters: the start time and its end time.

Press Ok key a fifth time.

The display will show ESxx, with "xx" representing the starting hour.

Use (+) or (-) key to change setting (01:00-12:00 AM/PM).

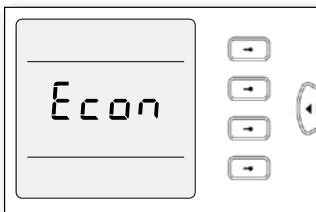


Setting Economy end time

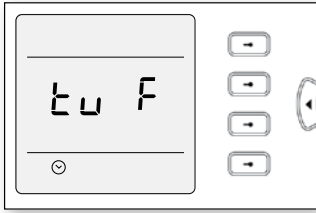
Press Ok key a sixth time.

The display will show EExx, with "xx" representing the end time in hours.

Use (+) or (-) key to change setting. (01:00-12:00 AM/PM).



When in Economy mode, the "Econ" message is displayed.



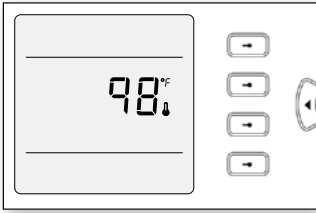
Setting temperature unit

Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). Press Ok key a seventh time.

The display will show either °F or °C.

Use (+) or (-) key to change setting.

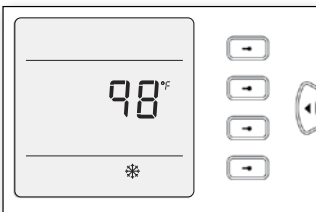
Press Ok key a last time to go back to normal mode.



Water temperature regulation

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.



Cooldown

While performing these tasks, the heater is not allowed to turn on and its icon flashes. The heater is not allowed also to come on throughout the cool down period of the heater element.

Smart Winter Mode

Our Smart Winter Mode protects your system from the cold by turning pumps on several times a day to prevent water from freezing in pipes.

MAINTAINING YOUR SPA

DRAINING YOUR SPA

Your spa needs to be drained, cleaned, waxed, and refilled about every six months. More frequent water changes may be necessary if bather load is heavy. A hose bib has been provided below the left side of your front access panel, to assist you in draining your spa.

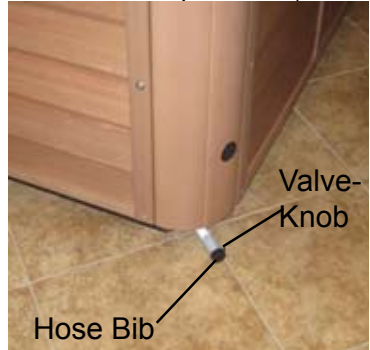
1) Turn off the power to your spa. If you fail to turn the power off, vital components could be damaged. Do not leave an empty spa exposed for long periods of time in hot, sunny weather.

2) Attach your garden hose to the hose bib.

3) Place the other end of the hose in an area that will accept the water capacity of your spa.

4) Open the hose bib by turning the valve knob counter clockwise to the full stop position.

5) Check the garden hose end to see if water is flowing. If water is not flowing, check the hose for kinks. Also check to see if valve is in the full open position.



CAUTION: The chemical content and temperature of the water will cause damage to certain vegetation. We do not recommend that you drain your spa onto plants or lawns. If you choose to do this, please remove your spa cover and allow spa to cool for a minimum of 24 hours with the spa turned off.

PILLOW CARE

Remove and clean the pillows with soapy water and a soft cloth when needed. Use a vinyl conditioner once a month. Remove pillows when doing chemical shock treatment.

JET CARE

We recommend that you clean your jets when you drain your spa. However, if you do need to clean your jets in between this can be accomplished with a full spa.

1) To remove the jet inserts turn the jet counterclockwise to the off position until it stops. Continue to turn the jet past the stop point to loosen it from the spa. The insert will now pull out.



2) Soak jet inserts in a mixture of 1 part vinegar to two parts warm water for 2-3 hours. Periodically rotate the spinner nozzle to break up residue in the jets.

3) Rinse the jet inserts under warm water.

4) To reinstall the jets insert jet into jet body and turn clockwise until fully seated then tug to make sure it is seated properly. You can then continue to turn clock-wise until it stops.



NOTE: A jet with stainless steel escutcheons can be slippery. You can use a soft cloth or jar-opening pad to assist in removing and installing the jet.

MAINTAINING YOUR SPA cont...

REMOVING, INSTALLING AND CLEANING FILTERS

These are the steps needed to successfully replace your filters. You should replace your disposable spa filters and clean your nondisposable filters every four months.

- 1) Turn off all power to your spa and remove the filter lid by lifting it out towards you.
- 2) Turn the filter counterclockwise and remove it from the filter well.
- 3) Dispose of the used filter.
- 4) To replace, set screen back into its place turn clockwise to fasten. DO NOT over-tighten.
- 5) Place the new filter into position and turn clockwise to fasten. DO NOT over-tighten.
- 6) Follow the directions 1) and 2) for the pleated filter cartridge. You then rinse the filter with a garden hose and soak the filter in a mixture of one pint of filter cleaner with 2.5 gallons of water for at least 12 hours. The filter must be completely submerged. You then follow the directions 4) and 5) to replace the filter



WARNING: Power to your spa must be turned off prior to removing your filters. The suction at the filter is extremely strong and can cause injury if there is no filter. NEVER run your spa without the filters properly installed. Injury to person and damage to the equipment can occur. Any damage to equipment due to this circumstance will not be covered under warranty.

WINTERIZING YOUR SPA

It is not recommended that you drain your spa completely during freezing conditions. We recommend that you leave your spa full of water with the power on to keep the tub from freezing. If you decide to drain your spa during freezing conditions, contact your dealer for help. Contact your Artesian dealer before refilling a drained spa in freezing temperature.

WARNING: Damage to your spa caused by freezing is NOT covered under warranty. Please contact your local Artesian dealer to assist you in winterizing your spa.

REPLACING THE LIGHT BULB

- 1) Turn off the power at the main electrical service panel.
- 2) Remove front access panel.
- 3) Locate and remove the reflector by turning it counterclockwise until free from wall fitting.
- 4) Remove the bulb from the holder.
- 5) Replace with new bulb. Your Artesian dealer has these bulbs in stock.
- 6) Replace the reflector by screwing it clockwise back onto the wall fitting.
- 7) Replace the front panel.
- 8) Turn power on at the main electrical service panel.

NOTE: The spa light bulb is not covered under warranty.

MAINTAINING YOUR SPA cont...

SPA CABINET CARE

Your spa comes standard with a PermaWood, or faux wood, cabinet. This cabinet requires no maintenance. You may wish to clean the cabinet with mild soap and water from time to time. If you elected to purchase your spa with a wood cabinet, this cabinet is stained and sealed with an oil based acrylic stain. The stain is formulated especially for spa cabinet and deck applications and is resistant to ultraviolet light damage caused by sun rays. It is also resistant to fungus and insect damage. Your Artesian dealer carries this type of stain for your convenience, so call your dealer when you're ready to re-stain your cabinet. You should re-stain your wood cabinet at least once a year, or more frequently depending on your environmental conditions.

- 1) Gently wash the cabinet with mild soap and water and allow to dry completely.
- 2) Moisten a rag with the stain you have purchased from your Artesian dealer.
- 3) Apply the stain on the entire cabinet surface, wiping off any excess stain as you are applying.
- 4) Allow stain to dry for a minimum of 24 hours before getting the cabinet wet.

NOTE: Do not apply any solid type finish such as shellac or varnish. After weathering, these types of finishes will crack and/or turn yellow. To refinish the wood, you will need to completely strip the finish before applying the new one. Use only the stain recommended by your Artesian dealer for refinishing your spa.

CLEANING YOUR SPA INTERIOR

It is important to clean the interior of your spa every time it is drained to help preserve the sheen of your spa's surface. However, it is important that you do not use any abrasive cleaners or strong chemicals. Your Artesian Spas authorized dealer will be able to supply.

you with the proper cleaning solution for your spa. After cleaning, make sure all residues are removed prior to filling the spa. This will help prevent sudsing and improper chemical balance.

COVER CARE

Cleaning of your spa cover is an important part of routine maintenance. Dirt acts as an abrasive to the vinyl topcoat, and can also cause wear to folds, seams, and stitching. Mildew growing on damp, dirty vinyl will begin to actually root in the fabric, accelerating failure. Follow this simple routine for cleaning, prior to application of vinyl protectant:

- 1) Rinse with cool water using a garden hose.
- 2) Spray with a gentle, non-foaming cleaner and wipe clean. Never use laundry detergent, abrasives, alcohols, dish soaps or harsh cleaners. These can actually remove some of the topcoat and cause premature vinyl failure.
- 3) For stubborn dirt, use a non-abrasive sponge.
- 4) Rinse again thoroughly with water and allow to dry.
- 5) Repeat monthly, or as needed.

Your vinyl cover is affected by the UV in sunlight. Periodic treatment with a liquid protectant will extend the life of your spa. The wrong kind of protectant can be more harmful than no protectant at all. Keep any product away from your spa that is labeled “flammable,” that contains any type of oil, or that leaves a waxy coating on your cover.

Never stand or sit on the cover and never drag it over abrasive surfaces. Lift cover only by the handles provided.

MAINTAINING YOUR SPA cont...

CHEMICAL TREATMENT OF WATER

Water from your tap is fine for showers, bathing and drinking. However, in a contained recirculating system such as in a spa, water must be treated with chemicals. The main purpose of chemical treatment is to keep the water sanitary and to maintain a specific balance of the water. Proper balance ensures that the water will not cause irritation to the users or harm the spa's components. Chemical treatment does have its limitations. When water evaporates, chemical residues are left behind. As the levels of the residues combine with other types of residue, such as body oil and detergents, your water becomes increasingly difficult to maintain. Because of this residual effect, at some point it becomes easier and more cost-effective to drain, clean and refill your spa with new water. We recommend that the water be changed at least every six months. At this time you should also clean or replace your filters. If your spa has a frequent and/or heavy bather load, it may be necessary to drain and fill your spa more often. Refer to the section titled "Draining your spa" for instructions (page 28).

WARNING: Spa damage due to improper chemicals is not covered under warranty.

WATER CHEMISTRY

CAUTION: The chemicals used to maintain the pH balance of the water and to sanitize the water can be dangerous. Always follow these basic guidelines when handling the chemicals:

1. Always read and follow the directions on the label, unless directed otherwise.
2. Never mix different chemicals.
3. Do not exceed the recommended amounts of chemicals—follow the directions on the label.
4. Keep all chemicals out of the reach of children and pets.
5. Keep containers closed tightly when not in use.
6. Never add water to the chemicals—always add the chemicals to the water as directed.
7. Always store chemicals in a cool, dry place.

WATER TREATMENT GLOSSARY

1 - Total Alkalinity: Total Alkalinity measures the water's ability to resist fluctuations in the pH level. It is measured in ppm (parts per million) ranging from 0 - 400 or up. The optimum range for your spa water is between 80 and 140. This can easily be measured with 3- or 5-way test strips. With low alkalinity the pH level will be prone to dramatic fluctuations. With high alkalinity the pH becomes increasingly difficult to adjust.

2 - pH (potential hydrogen): The pH is used as a measurement of the active acidity, the concentration of active hydrogen molecules in the water. pH is measured on a scale from 1 to 14, the lower numbers indicating a greater concentration of active hydrogen. While 7, halfway between base and acid is neutral, the optimum level of acidity for a spa is between 7.2 and 7.8.

WATER CHEMISTRY cont...

WATER TREATMENT GLOSSARY cont...

The effects of low PH can be rapid sanitizer loss, eye and skin irritation, expedited corrosion of metals, as well as staining throughout the spa. High PH can result in cloudy water, low sanitizer efficiency, as well as eye and skin irritation.

3 - Parts per Million (PPM): The term “parts per million” will be used frequently in the world of water care. The term simply means exactly what it says: the coexistence of any one unlike item with a larger number of “like” items.

4 - Sanitizers: Sanitizers are used to destroy bacteria and other germs in the water. Only 2 sanitizers are used in spas, chlorine (Sodium Dichlor) and Bromine (Hydrotech or Lonza). Without the use of a mineral system or an enzyme, the preferred level of sanitizer is between 2 and 3 ppm.

5 - Total Dissolved Solids (TDS): TDS is simply the measure of the total amount of matter dissolved in the water. When this level becomes too high, action is advised.

6 - Calcium Hardness: The measure of the amount of calcium dissolved in the water as expressed in PPM. Hard water, or water with calcium levels over 250 PPM can cause scale formation on the surface of the spa or the components of the spa.

7 - Total Chlorine: Total Chlorine is the sum of the free and combined chlorines in the water. Often, water will contain a higher level of total chlorine than available chlorine. If this is the case in your water, you may use a non-chlorine shock (typically potassium monopersulfate) to free up the remainder of total chlorine.

8 - Ozone: Ozone is a gas molecule that can be generated by an Ozonator, which is composed of three atoms of oxygen and used to oxidize the water. Ozone is very useful for regenerating bromine from bromide ions. It also acts as a supplement when used in conjunction with a sanitizer and may reduce the level of sanitizer required. You may read more about ozone later in this section of your owner’s manual.

9 - Organic Matter: These are carbon-derived substances typically generated by living organisms. In a spa, they are most frequently introduced into the water by bathers. Enzyme products such as Spa Perfect by Natural Chemistry are most effective at eliminating organic matter from your body of water.

10 - Microorganisms: This term refers to tiny, living organisms such as bacteria, protozoa, or algae.

11 - Sequestering: This term defines the action taken to remedy high levels of metals or calcium in the water. By forming a complex that envelops materials in the water, commonly hardness ions, a sequestering chemical prevents the ions from reacting to one another, thus forming complex structures or solids.

12 - Shocking: Shocking is the act of hyper-chlorinating or hyper-oxidizing the water. This can be accomplished with a myriad of shock treatments, but is most commonly accomplished with Sodium Dichlor or Potassium Monopersulfate. The former raises the sanitizer level to at least 8 PPM, and the latter burns off chloramines or bromines. The use of P.S., or non-chlorine shock is advantageous because you can bathe only 15 minutes after treatment; however, oxidizing the water will not kill the bacteria unless there is sufficient total chlorine to free up used chlorine to actively sanitize.

13 - Bather Load: You may be asked by your spa professional what the average bather load is, meaning, how many people enter the spa on a daily or weekly basis.

14 - Alternative Sanitizers A group of products that sanitize pool, spa and hot tub water, by means other than the application of chemicals to the water. Includes such products as ultraviolet sanitizing systems, mineral purifiers, ionizers and ozonators.

15 - Bactericide: A chemical that kills bacteria. The most common bactericides are: chlorine, bromine, biguanide, ozone and silver. Most algacides, other than copper, exhibit some bactericidal properties.

16 - Balanced Water: Pool or spa water that is within the accepted water analysis parameters for: pH, sanitizer, total alkalinity, calcium hardness, chlorine stabilizer (chlorine pools only) and minerals. The balancing, of the pool or spa water, helps to eliminate water chemistry problems.

WATER TREATMENT GLOSSARY cont...

17 - Chloramines: Irritating, odorous forms of combined chlorine, formed by the reaction of chlorine with nitrogen containing waste products. Chloramines are ineffective as a pool or spa sanitizer. High levels of chloramines can cause the problems of “Red Eyes” or “Stinging Eyes.” Usually requires a shock treatment to lower or destroy the combined chlorine level.

18 - Corona Discharge: A method for producing ozone, by utilizing high voltage arcing to convert oxygen (O₂) into ozone (O₃). Refer to the listing for Ozone for more information.

19 - Enzymes: Organic agents that hasten the natural breakdown (digestion) or decomposition of oily wastes and organic residues in pools and spas.

20 - Hard Water: The term used to describe water that is high in calcium or magnesium. High levels, usually over 400 PPM, can lead to clarity and scaling problems, if not treated. Source of the calcium can be natural or can be contributed by chemicals such as calcium hypochlorite.

21 - Ions: The electrically charged state that an element assumes in true solution. In the ionic state, ions are chemically reactive. Some ions, such as, copper, silver and zinc, are used as sanitizers in mineral purifiers and/or ionizers.

22 - Ionizers: Equipment that sanitizes pool and spa water by providing a low level source of copper and silver ions, as the water passes over charged electrodes. Copper ions can provide algaecidal control. Silver ions can provide bactericidal control. Other types of devices (mineral purifiers) work by an erosion principle and utilize copper, silver or zinc ions. Spa ionizers often lack the copper element because the need for algae control is not as acute as in a pool.

23 - Mineral Purifier: A type of device that releases copper, silver or zinc ions into the water at very low levels. In this ionic state, these minerals can function in the sanitizer role and help control algae and bacteria in pool and spa water. Mineral Purifiers work on the principle-

of erosion and do not require electrical components. Most include some type of replaceable cartridge, that contains the copper, silver or zinc materials.

24 - Biguanide: The generic name for a non-chlorine, non-bromine, sanitizer that utilizes the polymer PHMB (polyhexamethylene biguanide). It is used to totally eliminate the use of chlorine or bromine.

25 - Biofilm: A slippery coating of microorganisms that can develop in poorly sanitized pools and spas.

26 - Brominator: Feeding devices used to introduce bromine into pools or spas. Most automatic types can be plumbed inline. Others are simple floating varieties. All are intended to make the application of bromine easier and more consistent.

27 - Calcium Carbonate: Crystalline deposits (scale) that can form on all under water surfaces, if the water is excessively high in calcium hardness. High pH and high total alkalinity can worsen the problem.

28 - Oxidation: The chemical reaction by which organic matter is "burned" or destroyed, by the action of chlorine, bromine, ozone, hydrogen peroxide or non-chlorine shock. Oxidation may cause minerals such as iron, manganese and copper to form discoloring stains and precipitates, if not treated properly.

29 - Ozonator: A device for producing Ozone (O₃), by either a UV (ultraviolet) light source or by electrical arcing (corona discharge). Used for oxidizing and sanitizing purposes in both pools and spas.

30 - Ozone (O₃): Typically produced by an Ozonator installed in a pool or spa. Ozone (O₃) is a form of oxygen (O₂) and is a powerful oxidizing agent. It is used to destroy organic waste and by-products and help in the control of algae and bacteria. Ozone is not a stand alone sanitizer and requires the supplementation of chlorine, bromine, minerals, or ionization.

31 - Soft Water: Water that is low in calcium and magnesium hardness. Such water can prove to be corrosive to masonry surfaces and underwater metal parts. The calcium hardness level can be raised, to the optimum range of 150-200 PPM, by the addition of appropriate amounts of a calcium hardness increaser (calcium hardness).

SPA CHEMICALS GLOSSARY

1 - Alkalinity Up: The total alkalinity of your spa water should be between 80-140 PPM. A proper alkalinity will help buffer your spa water against sudden changes in pH. Every 2.5 tablespoons of Alkalinity Up will raise your alkalinity by 10 PPM in a spa holding 500 gallons of water.

2 - Bromine Tablets: These slow-dissolving tablets work especially well in the hot water of your spa. Keep a base of tablets inside of an in-spa floater/feeder in order to maintain between 2 and 5 PPM. Add 2 tablets per 100 gallons of water and adjust the floater's opening to regulate the PPM level.

3 - Foam Gone: Foam in spas is typically caused by residue from soap, shampoo, and cleansers. A small amount of Foam Gone will dissipate the foam and will not affect the water balance. Most foam removers are compatible with all sanitation programs.

4 - Liquid Filter Cleaner: Regular use of Filter Cleaner will greatly increase the life and performance of your filters by cutting away grease, body oils, scale, and lotions. Clean filters also contribute to better water circulation and superior spa performance, because dirty filters can substantially impede water flow. Keeping your filters clean with filter cleaner will also help keep your water filtered and clear. This is accomplished by mixing one pint of filter cleaner with 2.5 gallons of water and submerging the filters in the mixture for at least 12 hours.

5 - Dichlor Granular: This concentrated, stabilized, and quick-dissolving chlorine granular is simple to use in your spa as a sanitizing shock treatment. The downside to Dichlor is that it will not sustain a PPM base for long in hot water. However, as a rule of thumb, if you treat your water after bathing with half a capful of Dichlor, you will maintain clear and comfortable water, providing your pH is controlled and your filters cleaned. Dichlor dissolves quickly and leaves no residue.

6 - pH Down: If your pH level remains high, you can struggle with scaling, cloudy water, rapid sanitizer loss, and possible skin and eye irritation. pH Down can be purchased from your dealer in either liquid or solid granular form. Please see your dealer for recommended dosage.

7 - pH Up: The effects of low pH can be rapid sanitizer loss, eye and skin irritation, expedited corrosion of metals, as well as staining throughout the spa. pH up can be purchased from your dealer in either liquid or solid granular form. Please see your dealer for recommended dosage.

8 - Metal Protect or Remover: Also called stain and scale defense, metal protect inhibits staining and scaling in your spa. It will also prevent calcium build-up on the surfaces of your spa. Regular use will help protect your spa surface as well as your plumbing, your pumps, and even your heater.

9 - Spa Shock: Non-chlorine spa shock contains Potassium Monopersulfate and is an oxidizer that works well with mineral, chlorine and bromine systems. Regular use of spa shock can substantially reduce the need for sanitizing by up to 50% and will continually remove inorganics from the water. Best of all, you can bath in only 15 minutes after application.

10 - Ascorbic Acid: Vitamin "C." Can be used as an acidic reducing agent in the removal of difficult metallic stains from underwater surfaces. Oxalic acid can be used in a similar manner.

MAINTAINING THE PROPER pH BALANCE

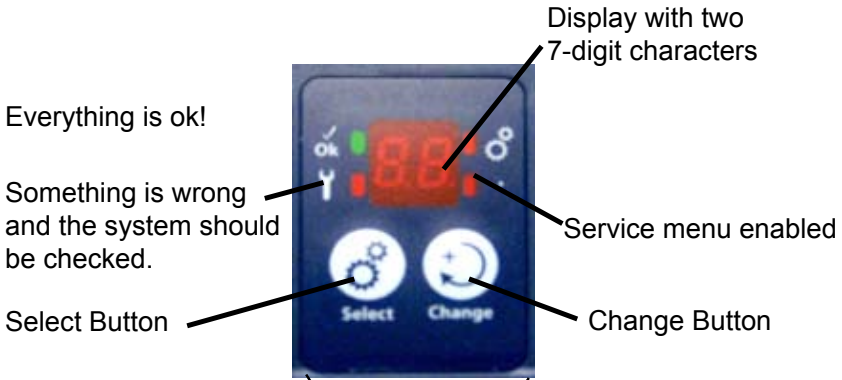
The pH factor is a measure of the relative acidity or alkalinity in the water. It is measured on a scale of 1 to 14. Pure water has a value of 7, which is neutral. Any value above 7 is alkaline, and any value below 7 is acidic. You should maintain a slightly alkaline pH level, between 7.2 and 7.8, in the hydrotherapy spa. Severe problems can occur when the pH balance is not maintained within this range. If the pH level exceeds 7.8, dissolved minerals can build up and clog the plumbing in the spa jet unit. If the pH level falls below 7.2, the acid level in the water will begin to corrode the metal parts in the spa jet unit. Also, the sanitation agents in the water will not be effective if the pH level is not properly maintained. Damage caused by improper pH levels is not covered under the warranty. To maintain the proper pH level, you should test the pH of the water regularly. To test the water, purchase a pH test kit at a pool and spa supplier. The pH reading should be between 7.2 and 7.8. If the level is too low, add a pH increaser (usually soda ash). If the level is too high, add a pH reducer (usually sodium bisulfate). Test the water again after five minutes. See the instructions with your pH test kit for additional information about testing and adjusting the pH.

TROUBLESHOOTING

Auto-diagnostic module with multiple detection levels, in.scan continuously reads current at input to monitor breaker status. It also identifies corrective actions by displaying error codes on the box display.

All errors will be displayed on the keypad and on the in.xm display, whichever is the easiest to read when troubleshooting is required.

When displaying error codes, both the device ID and its related error code are displayed alternately. If there are more than one active error, the one with the highest priority is displayed.



TROUBLESHOOTING cont...

SP H-

A hardware error was detected in in.xm.

- Restart the spa pack and start and stop all pumps and blower.
- If error reappears, contact local dealer to schedule a service call.

SP br-

User tried to set input current rating lower than the sum of current for all pumps.

- Increase in.xm current rating (and breaker) or reduce pump size.

SP in

Input voltage is too low.

Either there is a problem with the terminal connections or with the power line.

- Check input terminal connections to make sure they are correctly wired and tightened.
- Have a certified electrician verify the quality of the power line.

SP F1

An in.xm fuse is blown.

Fan, blower, ozone, circulation pump, fiber optic.

- Replace the blown fuse with an identically rated replacement (SC-20, SC-25, etc.)

SP F2

An in.xm fuse is blown.

Pump 2 and Pump 3, or a blower that is more than 5 amps.

- Replace the blown fuse with an identically rated replacement (SC-20, SC-25, etc.)

SP F3

An in.xm fuse is blown.

Pump 2 and Pump 3, or a blower that is more than 5 amps.

- Replace the blown fuse with an identically rated replacement (SC-20, SC-25, etc.)

TROUBLESHOOTING cont...

SP 07

In.xm internal temperature's too high (overheat).

- Remove spa skirt and let system cool down.
- A system reset may be required to clear error.

SP 04

OH and blinking temperature higher than 122° F on the keypad display

In.xm detects water temperature higher than 112° F (overheat).

- Remove spa skirt and let system cool down.
- Add cold water and lower filter cycle.
- If error persists, measure the temperature with a DIGITAL thermometer and compare reading with the temperature on the display. If temperature is different, contact your local dealer to schedule a service call.

rh Hr

A hardware error was detected in in.therm. (related to electronic circuit only.)

- Restart the spa pack; make sure the heater restarts by changing the set point.
- If problem persists, contact your local dealer and schedule a service call.

rh rh

This error occurs if in.therm is trying to heat water but does not detect any temperature rise.

- If the thermometer is not correctly connected Verify voltage.
- Restart the system.
- Replace in.xm if system is equipped with a stereo which is not working.
- Replace the in.therm if error persists.

TROUBLESHOOTING cont...

rh nF

This code is displayed when a “no flow” condition is detected by in.therm.

Important: System will make three continuous flow checks during 9 minutes before displaying this error.

- Make sure water valves are open and water level is high enough.
- Check and clean filters.
- Make sure there are no air locks (or that no object obstructs passage of water in in.therm channel). Pumps will make strange noise and error “P1 ER” might appear. Follow atr lock procedure to clear them.
- Make sure that pump associated to heater (Pump #1 or Circulation Pump) is running. If not, call spa manufacturer to get low level prog. number.

rh nE

This code occurs when a communication problem exists between in.xw and in.therm.

- Make sure remote heater cables are connected properly and that none of the cable connector pins are bent.
- If problem persists, contact your local dealer to schedule a service call.

rh HL

High Limit hardware circuit tripped.

Usually, kinetic heating protection or current monitoring circuitry will shut the heater down before this error occurs. Still, if it appears there are typically two possible causes.

- Heater was previously stored in a very hot location prior to installation and there is no water yet in its tube to cool it down. Use a hose to cool down the interior of the tube.
- External ambient temperature is high enough to heat water, even though pumps remain off.

TROUBLESHOOTING cont...

HL HL

High Limit hardware circuit tripped.

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

P1 Er

System hasn't detected any current change when turning on or off Pump 1.

- Make sure Pump 1 is connected properly.
- Manually change output status (on/off) of Pump 1 and cycle through all possible states (i.e. low and high speeds)
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

P2 Er

System hasn't detected any current change when turning on or off Pump 2.

- Make sure Pump 2 is connected properly.
- Manually change output status (on/off) of Pump 2 and cycle through all possible states (i.e. low and high speeds)
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

P3 Er

System hasn't detected any current change when turning on or off Pump 3.

- Make sure Pump 3 is connected properly.
- Manually change output status (on/off) of Pump 3 and cycle through all possible states (i.e. low and high speeds)
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

TROUBLESHOOTING cont...

CP Er

System hasn't detected any current change when turning on or off circulation pump.

- Make sure circulation pump is connected properly.
- Manually change output status (on/off) of circulation pump.
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

O3 Er

System hasn't detected any current change when turning on or off the ozonator.

- Make sure ozonator is connected properly.
- Manually change the output status (on/off) of ozonator.
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

A1 Er

System hasn't detected any current change when turning on or off Aux. 1.

- Make sure Aux.1 device is connected properly.
- Manually change the output status (on/off) of Aux.1 device.
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

A2 Er

System hasn't detected any current change when turning on or off Aux. 1.

- Make sure Aux.1 device is connected properly.
- Manually change the output status (on/off) of Aux.1 device.
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

TROUBLESHOOTING cont...

Fb Er

System hasn't detected any current change when turning on or off fiber box.

- Make sure fiber box is connected properly.
- Manually change the output status (on/off) of fiber box and cycle through all possible speeds.
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

Fa Fr

System hasn't detected any current change when turning the fan ON or Off.

- Make sure the fan is connected properly.
- Manually change the output status (on/off).
- Reset spa pack.
- If error does not clear, call your local dealer and schedule a service call.

Sc Er

System relearn error

- Every time a low-level option is changed, the system must "relearn" currents associated to each output/load. During this learning process, the device connected to OUT8 (direct output, no relay) must be disconnected **if it draws more than 0.4 amp**. If it doesn't, system will report a SC error code.
- Once the load is correctly disconnected, user needs to restart the learning process by pressing either Select or Change key on the in.xm display panel (in.scan interface).

Artesian Spa Platinum Elite Class Warranty

This section is a description of your warranty. Here you will find descriptions of what is covered under your PLATINUM ELITE Class Spa warranty and what can void your warranty. **PLEASE READ THE WARRANTY THOROUGHLY.** For warranty outside USA and Canada, please refer to your countries Artesian Distributor.

Lifetime Structure Warranty

Platinum Elite Class Spas carry a lifetime structure warranty. The structure is defined as the fiberglass vessel below the exposed material finish. The manufacturer warrants the spa against loss of water due to a defect in the spa structure, for the lifetime of the spa. In the event of a defect in the material and/or workmanship, the spa structure will be repaired or replaced at the discretion of the manufacturer. **THIS WARRANTY IS GIVEN ONLY TO THE ORIGINAL OWNER, AND TERMINATES UPON TRANSFER OF OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS AND ALL WARRANTIES.**

If the spa structure is defective and must be replaced, it will be returned to the factory. The original, installed equipment (this includes the frame, skirt, and all equipment) will be reinstalled. If new equipment is desired, there will be additional charges to the customer.

If the frame and/or skirt of the spa has been badly damaged, there will be additional charges to the spa owner for repairs or replacement. When a spa needs to be returned to the factory for repair, the cost of one way freight to the company will be at the spa owner's expense. The manufacturer will not pay for removal, installation, cranes, construction, de-construction, or any other cost associated with access, egress, or ingress, of the spa at the customer's home. The manufacturer reserves the right to an on-site inspection by its authorized representative. In the unlikely event a shell or spa must be replaced, all warranties (shell, surface, electrical and plumbing) date back to the original date of delivery

Seven-Year Surface Warranty

The spa surface is described as the exposed material finish. The manufacturer warrants the spa surface to be free from defects in the material and workmanship, such as blistering, cracking, or delaminating, under normal use and maintenance for a period of seven years from the original date of delivery. **THIS WARRANTY IS GIVEN ONLY TO THE ORIGINAL OWNER, AND TERMINATES UPON TRANSFER OF**

OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS AND ALL WARRANTIES. The spa must be set on a level solid surface that is sufficient to support the entire length and width of the spa. Standard building practices must be followed. Damage caused by failure to have a leveled and supported foundation under the spa is not covered under warranty. The manufacturer does not warrant problems associated with prolonged exposure to the sun and/or use of any sanitization or ozone system not approved by the manufacturer. Damage to the spa surface caused by leaving the spa uncovered and empty of water with direct sunlight exposure will terminate this warranty. Any alteration to any system, either electrical, plumbing, or mechanical, or over use of chemicals, or any other problems caused by external source are not covered under warranty. Other exclusions may apply.

Normally problems associated with material and workmanship can and will be repaired. If the spa surface is repaired, the repair is limited to the affected area only, and there is no guarantee against discoloration or fading. The decision to repair will be made by the manufacturer and its field representative after a review of the facts, pictures, or any other data presented by the dealer or customer. In all cases, pictures of the affected area and foundation of the spa must be provided before any decisions to repair or replace can be made. In the unlikely event a shell or spa must be replaced, all warranties (shell, surface, electrical and plumbing) date back to the original date of installation. If it is determined that the surface is to be replaced, the same conditions and terms as outlined in the shell warranty will apply.

Five-Year Electrical Warranty

The Electrical is defined as the electrical items (i.e. pumps, equipment packs, heater, topside control, etc). The manufacturer warrants all electrical equipment to be free from defect and workmanship for five years from date of delivery. ***THIS WARRANTY IS GIVEN ONLY TO THE ORIGINAL OWNER, AND TERMINATES UPON TRANSFER OF OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS AND ALL WARRANTIES.*** The stereo, speakers, stereo power supply, L.E.D. lighting, light bulbs, fuses, and Ozone are not included in the warranty, but are covered under a separate warranty. Damage caused by weather, poor water chemistry, and/or improper maintenance will not be covered under this warranty. Alterations or replacements of components installed in the spa that are not purchased and/or approved by the manufacturer including incorrect wiring, will terminate the spa warranty.

WARRANTY cont ...

Five Year Plumbing Warranty

The plumbing is described as all piping, jet bodies, valve bodies and air controls. The manufacturer warrants all plumbing for a period of five years from the date of delivery. ***THIS WARRANTY IS GIVEN ONLY TO THE ORIGINAL OWNER, AND TERMINATES UPON TRANSFER OF OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS AND ALL WARRANTIES.*** Jet internals, valve handles, and other such items are regular maintenance items. They are covered for the item only, labor is not covered for these items. Damage caused by weather, poor water chemistry, and/or improper maintenance will not be covered under this warranty.

Cabinet Warranty

The spa cabinet is described as the outer material encasing the spa structure. The manufacturer warrants it to be free from defects in material and/or workmanship from the date of delivery. ***THIS WARRANTY IS GIVEN ONLY TO THE ORIGINAL OWNER, AND TERMINATES UPON TRANSFER OF OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS AND ALL WARRANTIES.*** This warranty does not cover normal darkening, staining, or aging. The spa cabinet requires care and maintenance by the consumer. Damage caused by weather, poor water chemistry, and/or improper maintenance will not be covered under this warranty.

Two-Year Warranty on PermaWood Cabinets

PermaWood cabinets are covered under this warranty for a two-year period.

One-Year Warranty on Red Wood Cabinets

Wood cabinets are covered for a one year period. A coat of stain should be applied regularly to the cabinet to keep the wood in proper condition.

Other Items Not Covered In This Warranty

Some items are not covered in this warranty. These items either have a different warranty, or are warranted through the manufacturer of that item.

Stereo and Stereo Components

The stereo and stereo components, including speakers, sub woofer, power supply, wire harness, and remote control are covered for 30 days from the date of delivery. This warranty does not cover damage to a stereo or stereo component from abuse, poor reception, or damage caused by putting a wet CD into the stereo. If a stereo is replaced under this warranty, the manufacturer reserves the right to replace the unit with another like unit, but not necessarily the same stereo manufacturer. No spa will be replaced for a failed stereo. The stereo does not affect the performance of the spa.

Ozonator

The ozonator is covered for one year from the date of delivery.

Spa Cover

The spa cover manufacturer warrants the spa cover for one year. Do not return the spa cover to the manufacturer. This will delay the replacement or repair of the cover. The spa manufacturer is not responsible for lost covers.

L.E.D. Lighting

The L.E.D. lighting is guaranteed to work upon delivery. There is no warranty covering the L.E.D, lighting.

Performance

In the event of any defect covered by this LIMITED warranty, a May Manufacturing LLC, authorized agent will correct such defect within the terms and conditions contained herein. There will be no charge for parts or labor within the above terms. However, travel charges that occur will not be covered under terms and conditions by the warranty. If it is determined by May Manufacturing LLC that the repair of the product is not feasible, a replacement spa equal to the value of the original purchase price will be provided. Cost for removal of the defective spa and delivery and installation of the replacement spa is the responsibility of the homeowner and will not under any circumstances be covered by May Manufacturing LLC.

WARRANTY cont...

Limitations

This warranty is void if this Artesian Spa has been subjected to alteration, misuse, or repairs have been performed by anyone other than an authorized agent of May Manufacturing LLC. Misuse or abuse is defined as: use of the spa in a nonresidential application, water temperature outside the range of 32° F to 110° F, damage caused by clogged or dirty filter cartridges, damage to the spa from an absence of a hard cover, damage to components from improper pH, use of any type of acid, or from chemical imbalance. ACTS OF NATURE are not covered under this warranty.

Disclaimer

May Manufacturing LLC, or its agent shall not be liable for any injury, cost or other damage, whether incidental or consequential, arising out of any defect covered by the LIMITED WARRANTY. The liability of May Manufacturing LLC under this LIMITED WARRANTY shall not exceed the original amount paid for the spa.

Legal Remedies

This LIMITED WARRANTY gives specific rights, and other rights that may apply and will vary from state to state.

What is Not Covered Under Your Warranty

The following is a general overview of non-warranty items and work. This is not an all-inclusive list.

Diagnosis of Spa Problems

Fuses

Light Bulbs of Any Kind

Removing a Spa from a Structure

Pillows

Filters

Chemical Misuse / Damage

Filter Lids

Any Part not Purchased from Artesian Spas

Jet Inserts

Valve Handles

Pump Seals

Draining and filling the Spa
Acts of Nature
Travel Charges
Cabinet Screws
Incorrect Wiring
Shipping Charges

Any alteration of the spa that has not been pre-authorized by the manufacturer will void all warranties. If the manufacturer approves an alteration, verify that this alteration is covered under warranty. Damage caused by moving a spa that is blocked in or that has been recessed, along with additional charges for labor, is not covered by this warranty.

INTERIOR SPA DIAGRAM





1) Spa Pack

2) Heater



3) Therapy Pump



3) 24-hr Circulation pump

Place
Stamp
Here

Please do not send products or
other correspondence to the
address below.

ARTESIAN SPAS
Attn: Customer Care Department
4720 N. Lamb Blvd.
Las Vegas, NV 89115

Mr Ms.

Name _____

Address _____

City _____ State _____ Zip _____

Phone Number _____

Date of Installation _____ Spa Serial Number _____

Spa Model _____

Your Dealers Name and Location _____

What other spa brands did you consider buying? _____

Optional Questions

How many people are in your household? _____

What is your age bracket? 25-30 31-40 41-50 51-60 61-70 71+

What is your reason for purchasing a spa? Health Benefits Stress Relief Relaxation

Other: _____



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