

**IMPORTANT SAFETY INSTRUCTIONS**

**VITA<sup>®</sup>**  
**SPA**

**DX SERIES**

**D15, D30, D40, D60, D80**

**OWNER'S MANUAL**

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This Owner's Manual has been designed to familiarize you with your Vita Spa operations and general maintenance. We suggest that you take some time to carefully review it. Please keep this manual available for reference.

If you have any questions regarding your Vita Spa set-up, operation, or maintenance, contact your Authorized Vita Spa Dealer.

<b>OWNER'S RECORD</b>	
DATE PURCHASED:	_____
DATE INSTALLED:	_____
DEALER:	_____
ADDRESS:	_____
	_____
	_____
TELEPHONE:	_____
SERIAL #:	_____

To contact our Customer Service Department, please call 1-800-VITA-SPA, or 1-305-685-5739, during normal business hours, Monday through Friday, 8am to 5pm, E.S.T.

The Serial Number is located within the equipment compartment. Please verify that the serial number is noted on your dealer's purchase contract .

# IMPORTANT SAFETY INSTRUCTIONS

**WHEN INSTALLING AND USING THIS ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:**

**READ AND FOLLOW 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 ACCIDENTAL DROWNING.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a hot tub or spa unless they are supervised at all times.

**3. A ground terminal** (pressure wire connector) is provided on the control box inside the unit to permit connection of a minimum No. 8 AWG (8.4 mm<sup>2</sup>) solid copper bonding conductor between this point and any metal equipment, metal water pipe, metal enclosures of electrical equipment, or conduit within five feet (1.5 m) of the unit.

**4. DANGER** - To reduce the risk of injury to persons, DO NOT remove suction fittings. The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate 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.

**5. Install the spa** so proper drainage is provided for the compartment containing the electrical components.

**6. DANGER - RISK OF ELECTRICAL SHOCK.** Install at least 5 feet (1.5 m) from all metal surfaces. (A spa may be installed within 5 feet of

a metal surface if each metal surface is permanently connected by a minimum No. 8 AWG (8.42mm<sup>2</sup>) solid copper conductor attached to the wire connector on the terminal box that is provided for this purpose). National Electrical Code ANSI/NMFP A70-1993.

**7. DANGER • RISK OF ELECTRICAL SHOCK.**

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

**8. WARNING • TO REDUCE THE RISK OF INJURY:**

A. The water in a spa should never exceed 40 degrees Celsius (104 degrees F). Water temperatures between 38 degrees C (100 F) and 40 degrees C (104 F) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 minutes) and for young children.

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 or hot tub temperatures to 38 degrees C (100 F).

C. Before entering a spa, the user should measure the water temperature with an accurate thermometer, since the tolerances of water temperature regulating devices vary.

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

E. Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulation 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.

## DO'S AND Don't's

## WARNINGS

**DO** Make sure the spa is connected to a Ground Fault Interrupter (GFCI) protected circuit. This GFCI is required by the National Electrical Code (NEC) and must be installed by a licensed electrician. Test GFCI monthly.

Test the water with your hand before entering the spa to be sure it is comfortable.

Remember that wet surfaces can be slippery. Take care when entering and exiting the spa.

Use the thermal cover when the spa is not in use, empty or full.

**DO** Take steps to prevent the intrusion of sand and dirt into the spa.

**DO** Maintain proper water chemistry.

**DO** Clean the filter cartridge weekly.

**DON'T** Use the spa for long periods of time at temperatures over 104 F.

**DON'T** Operate spa without water. Turn circuit breaker off before emptying the spa and while it is empty.

**DON'T** Store chemicals in the spa's equipment compartment.

**DON'T** Open the electrical box. There are no user serviceable parts inside.

**DON'T** Operate the pump(s) on hi-speed for extended periods of time with the cover on. Extended hi-speed pump operation will cause a slow heat build-up due to water friction, which could trip the spa's hi-limit thermostat.

Prolonged immersion in water that is warmer than normal body temperature can result in a dangerous condition known as HYPOTHERMIA. The causes, symptoms, and effects of hypothermia may be described as follows: Hypothermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 degrees F. The symptoms of hypothermia include dizziness, fainting, drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hypothermia include (1) unawareness of impending hazard, (2) failure to perceive heat, (3) failure to recognize the need to exit the spa, (4) physical inability to exit the spa, (5) fetal damage in pregnant women, and (6) unconsciousness resulting in a danger of drowning.

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

Persons taking medications which induce drowsiness such as tranquilizers, antihistamines or anti-coagulants should not use the spa. Pregnant women and persons with a medical history of heart disease, circulatory problems, diabetes or high blood pressure should consult their physician before using the spa.

Children are especially sensitive to hot water. At no time should children have unsupervised access to the spa. The use of elevated decking may encourage children to climb onto the thermal cover — **IT IS NOT DESIGNED AS A SAFETY OR CHILD RESISTANT COVER!**

Every Vita Spa comes with a thermal cover which is provided with locking straps. **INSTALL** the locks for your child's safety.

**SAVE THESE INSTRUCTIONS.**

# INSTALLATION INSTRUCTIONS

## **SITE SELECTION/PREPARATION:**

The spa must be installed on a structurally strong, solid and reasonably level surface. The site should allow for drainage away from the equipment compartment in which the electrical components are housed. Take into account the following when considering prospective sites. Refer to spa equipment/cabinet access addendum.

## **LOCAL CODES:**

There may be certain restrictions and/or requirements that are particular to your locality.

## **DELIVERY PASSAGEWAY:**

Doors, halls, stairs, etc. may pose obstructions to deliver the spa to its intended site.

## **MAINTENANCE:**

Trees, lawn, placement surfaces, etc. can create extra work in keeping your spa and spa area clean and safe.

## **PRIVACY AND WIND SHIELDING:**

A sheltered environment can result in lower operating and maintenance costs.

Your VITA SPA dealer is your best resource to answer any questions or provide suggestions for your spa installation.

# ELECTRICAL REQUIREMENTS AND INSTALLATION

**IMPORTANT:** All electrical wiring to the spa must meet the requirements of the National Electrical Code (NEC) and any applicable state or local codes. The electrical circuit must be installed

**6** by a qualified, LICENSED electrical contractor

and approved by a local building/electrical inspection authority.

1) The spa must be permanently connected (hard-wired) to the power supply. No extension cords or plug-type connections are to be used in conjunction with the operation of the spa. Failure to supply power to the spa which is not in accordance with these instructions could create a potential health hazard and will void both the manufacturer's warranty and the independent testing agency listing.

**2) The National Electrical Code (NEC) requires that the power supply to this spa must be a dedicated, ground fault circuit (GFCI) protected circuit with no other appliances or lights sharing power off this circuit.**

3) Refer to the wiring diagram to determine the current, voltage and wire size requirements for this spa.

THHN type wire is recommended.

Wire size for the distance of the wire run must conform to NEC and local electrical codes.

Use copper conductor only to ensure proper connections. **DO NOT USE ALUMINUM WIRE.**

4) To obtain access to the spa's power terminal strip, remove equipment access door and remove the control box cover.

5) Feed supply conductors through power supply inlets provided on spa and install into control box.

6) Connect wires to terminal block (TBI) color for color. All wires must be connected or damage may result. **TIGHTEN SECURELY!**

7) A separate #8 (.4mm<sup>2</sup>) solid copper ground wire should be connected between the spa grounding lug and a recognized grounding rod that is fully driven into the ground. **NOTE:** Do not turn power on to the spa until the start-up instructions have been followed.

# OPERATION INSTRUCTIONS

**NOTE:** For best results, read each step carefully and entirely before proceeding to the next.

## 1) FILL YOUR SPA

Wipe the interior of the spa with a damp, soft cloth to remove any residue that may be on the surface. Fill with a garden hose. As the spa is filling, check in the equipment access area for any leaks. *On occasion, it may be necessary to hand tighten a union fitting that may have come loose during transit. Also check that the gate valves are pulled out to the open position and that the hose bib is closed. Continue to fill to the water level line.*

**NOTE:** If your water is extremely hard, it is preferable to fill the spa halfway with hard water and the rest with softened water. Never fill the spa entirely with softened water.

## 2) TURNING POWER ON

Before turning the power to the spa on, rotate the thermostat knob to the off position and place the timer selection switch to the manual (up) position. Close the equipment access door and turn the power on.

## 3) FUNCTION SELECTION

Before activating the heater, depress the selection buttons on the spa side control to engage the various functions as follows:

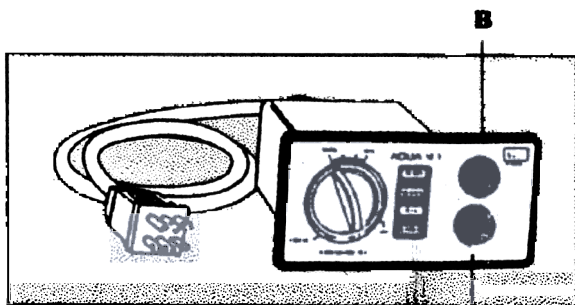


Illustration 1

### D15:

- (A) This is a Selection function control.
1. Depress once for low speed jets.

2. Depress twice for high speed jets
3. Depress three times for blower only.
4. Depress four times for blower and high speed jets.

- (B) Light Button: This controls the on/off function of the light.

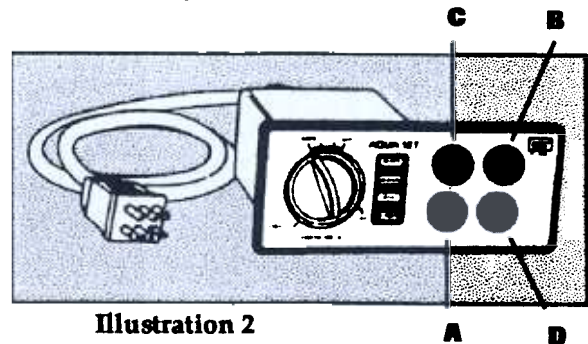


Illustration 2

### D60 and D80:

- (A) JETS button: This controls the main pump functions. Depress once and the hi-speed jet pump comes on, depress again, it will switch back to low-speed pump.

- (B) BLOWER button: This controls the air blower on/off function.

- (C) LIGHT button: This controls the on/off function of the light.

- (D) AUXILIARY button: This controls the on/off function of the auxiliary pump.

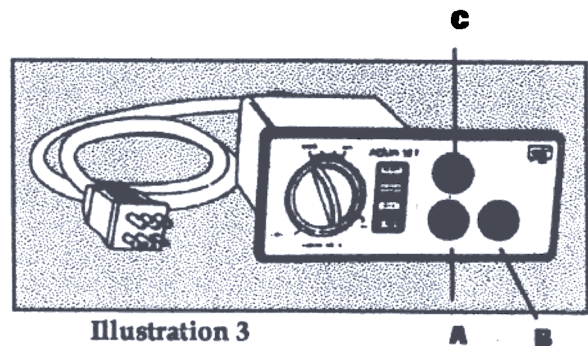


Illustration 3

### D30 and D40:

- (A) JETS button: This controls the main pump functions. Depress once and the hi-speed jet pump comes on, depress again, it will switch back to low-speed pump.

- (B) BLOWER button: This controls the air blower on/off function.

- (C) LIGHT button: This controls the on/off function of the light.

#### 4) HEATING YOUR SPA

After engaging the various functions and returning to the low speed pump function, turn the thermostat knob to the hot position. The spa temperature will rise seven to ten degrees per hour. When the desired temperature is reached, place the timer selection switch to the center position and set the time of day and the amount of run time (see Timer Operation).

**NOTE:** While heating the spa, or when the spa is not being used, keep the air controls closed.

#### 5) TIMER OPERATION

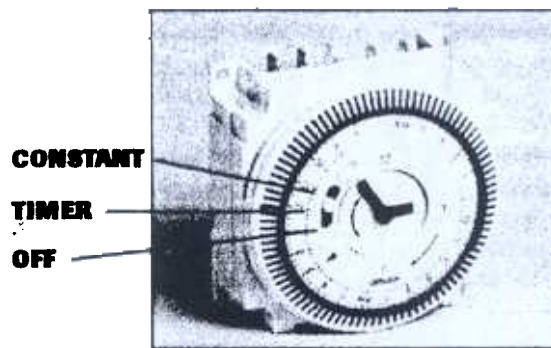


Illustration 4

The timer, which is located on the front panel of the control box, controls the low speed pump only. All other functions of the spa are accessible regardless of the timer setting.

#### SETTING THE TIME OF DAY

Rotate the outer ring of the timer clockwise until present time of day (AM/PM) is aligned with time indicator arrow. **NOTE:** The center dial will also turn as the outer ring is rotated and will correspond to the time of day setting.

#### TIMER SELECTION SWITCH

This switch has three positions for the various operations of low speed. In the down position the low speed is permanently off. In the center position (TIMER MODE) the low speed will turn on and off as selected with the position of the timer pins. In the up position, which is used when initially heating the spa and also for cold climate freeze protection, the low speed pump will run constantly regardless of the position of the timer pins.

#### SETTING THE RUN TIME

The outer ring of the timer is comprised of a series of pins that will slide in toward the center or out toward the edge of the timer. Each pin represents fifteen minutes. When the pins are slid in towards the center of the timer the low speed pump will run. When they are slid to the outer edge the low speed is off. The minimal amount of run time recommended per day is four hours. The low speed pump is used for filtration and maintaining the desired water temperature in your spa. The amount of run time will vary depending on the chosen temperature, supply voltage and the external temperature. When selecting the run time, all the pins between the time selected must be slid in towards the center.

**NOTE:** When using a VITAZONE water purification system, the minimal amount of run time will increase. Refer to the VITAZONE owners manual for instructions.

#### 6) FREEZE PROTECTION

Freeze protection is provided by setting the thermostat at an adequate temperature level and by setting the Timer Selection Switch (Ill. 2) to the ON (up) position.

#### 7) ADD START UP CHEMICALS

Carefully follow the directions and add the start-up chemicals recommended to you by your dealer. Contact your dealer to clarify any questions you may have.

#### 8) LIGHT OPERATION

The light button is located on the spa side control. Depress the button once for the light to come on and again to go off. There are two mood setting colored lenses included with your spa which may be placed over the light lens in the spa.

#### 9) JET OPERATION

Your Vita Spa is designed with a unique jet system to allow you to select a wide variety of massage patterns. The following is a description of the various types of jets and their operation you may use to tailor your spa to your specific massage needs.



## DIRECTIONAL & ROTATIONAL MASSAGE JETS

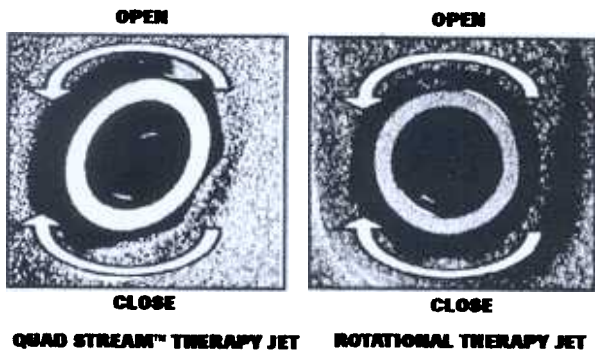


Illustration 5

When the pump is on and the turbo massage jet is in the off position, the directional and rotational massage jets will be operational. The water flow direction is adjustable by rotating the directional jet nozzle. The amount of pressure can be adjusted by rotating the outer rim of the jet(s): clockwise for minimum pressure, and counter clockwise for maximum pressure. Pressure may also be varied by the use of the air control.

### EURO 200 MASSAGE JET



Illustration 6

These Euro jets are used in various models for various purposes. In cluster configuration for back and neck massage, they deliver a firm pinpoint jet stream of massaging action. The Euro jet is not directional, but can be pressure controlled by rotating the face of the jet or adjusting the air control.

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### AIR AND OUTER RING CONTROLS



Illustration 7

The air controls are used to introduce air into the water jet stream. Marked with arrows for open or closed position, these controls allow the user to increase (open) jet pressure or decrease (close) jet pressure as desired.

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## THREE-WAY POWER DIVERTER VALVE



Illustration 8

This feature is only available on spas equipped with the D80 or D60 series equipment (Romance, Elan, Allure and Essence). This valve is functional when the primary,

two speed pump is operating. Water may be diverted to two individual sections of jets or a combined operation of both sections. By turning the valve to the left, water will be diverted to section "A" jets giving them the maximum output. Rotating the valve completely to the right will give section "B" the maximum output and when its turned to the center position, both "A" and "B" sections will operate simultaneously. (See specific spa spec sheet insert for details on how to use 3-Way Diverter).

## FOUR WAY TURBO MASSAGE DIVERTER JET

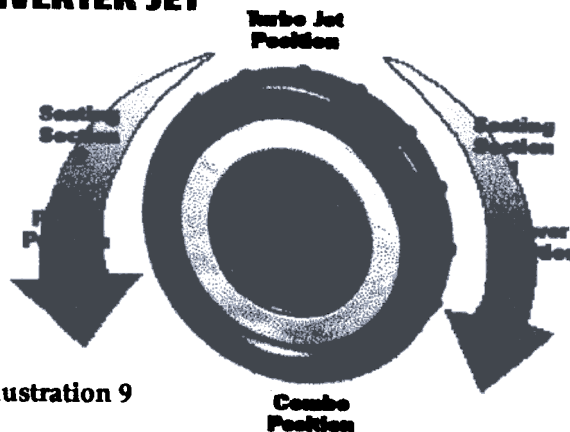


Illustration 9

This jet is operational when the auxiliary pump is on (for spas with 2 pumps), or whenever the pump is activated (single pump systems). Water is diverted to various jet regions by rotating the outer rim to assorted clock positions. When the jet is turned to the three o'clock position, sector "A" jets will operate. At nine o'clock, sector "B" jets will function. At six o'clock position, both "A" and "B" sectors will perform simultaneously. And at the twelve o'clock position, the water is routed through the turbo massage jet itself. (See specific spa spec sheet insert for details on how to use the 4-Way Turbo Diverter).



Illustration 10

### FINGER MASSAGE JETS

Located at various points in the spa. Creates a "finger massage" action when blower is turned on.

# SPA MAINTENANCE

Your VITA SPA is manufactured with the highest quality and most durable materials available. A spa care and maintenance program is recommended to increase your comfort, maintain the spa's reliability and protect your investment.

## 1. DRAINING YOUR SPA

Detergent residues from bathing suits as well as soap film from your body may gradually accumulate in the water. Foam inhibitors will suppress the foam but will not remove the soap from the water. Eventually, the soap build-up in the water will concentrate enough to leave an unclean feeling on the user's skin, cause sudsing and make the water impossible to clarify. Depending on the amount of soap input, the spa water should last between two and three months.

To drain your Spa:

- A. Turn the power off at the GFCI breaker.
- B. Attach a garden hose to the yellow hose bib located under the filter housing inside the equipment area, and route the outlet of the hose to an appropriate draining area. The spa will empty by gravity. Siphon or scoop out the balance of the water.

**IMPORTANT:** Spa water with a high sanitizer level may harm plants and grass.

If you are draining your spa for the winter, be sure to fully drain water from the pipe by disconnecting the two unions at the gate valves. Drain the water pump by removing the pump plug. Then reinstall the valves and pump plug.

- C. Remove the filter and clean as required.
- D. Inspect the spa shell and clean as required.
- E. Refill the spa BEFORE restoring power to it.

## 2. WINTERIZING YOUR SPA

Your VITA SPA has been designed and engineered for year-round use in any climate.

- A. If the spa will not be used, drain it completely following the instructions on "DRAINING THE SPA."
- B. If you intend to use the spa during the winter keep the spa warm and set the timer to bring the pump on at night and a couple hours during the day. It is recommended to set the timer to FREEZE PROTECTION (See pg. 8) when the temperature drops below 30 F. This will keep the low-speed pump running 24 hours per day and protect against potential freezing of pipes. Note that accidental freezing could result due to prolonged power failures.

## 3. FILTER MAINTENANCE

Vita Spas are designed with the most efficient top loading filtration system in the industry. Filter maintenance is the most critical factor in keeping your spa water clean.

To clean the filter:

(NOTE: Never run spa without filter)

- A. Remove the cartridge and spray it with a garden hose. It will be necessary to rotate the cartridge while spraying so as to thoroughly remove the debris lodged between the filter pleats.
- B. After allowing to dry, inspect the cartridge for calcium deposit (scaling) or an oil film. Rapid mineral build-up from hard water, or oil build up from the use of oil-based water scent or body oil may coat the filter cartridge. A filter cleaner to soak the cartridge is available from your VITA SPA dealer and should be used as part of your spa maintenance.
- C. Use a rag to remove any debris at the bottom of the filter housing. Replace the cartridge.
- D. We recommend the use of a spare filter. This way one can be soaking and cleaning while you continue to enjoy the use of your spa.

## 4. REDWOOD CABINET MAINTENANCE

Your VITA SPA cabinet is made with a high quality redwood. It is factory stained and sealed. Depending on the location and exposure of the spa to the rain and sun, it is recommended to seal the redwood cabinet once or twice a year with a wood sealant. Vita's specially formulated redwood sealer is available at your VITA SPA dealer.

## 5. MARINE VINYL COVER

Your cover is manufactured from a durable marine grade, U.V. resistant material. Even so, monthly cleaning and periodic conditioning is recommended to maintain its beauty. To clean and condition the vinyl cover:

- A. Lightly spray the cover with a garden hose to rinse it and remove the debris.
- B. Using a large sponge or soft cloth and a mild soap solution (1 teaspoon dish washing liquid with 2 gallons of water), scrub lightly in circular motion. Then rinse it thoroughly with plenty of water.
- C. Condition the vinyl after cleaning by applying a thin film of vinyl conditioner such as ArmorAll. NOTE: To remove tree saps, use lighter fluid (not charcoal lighter but the kind used in cigarette lighters). Use sparingly and rinse with mild soap solution afterwards. Wipe dry.

# WATER QUALITY AND MAINTENANCE

## GENERAL GUIDELINES FOR WATER QUALITY MAINTENANCE

Maintaining water quality within specific limits will enhance your enjoyment and prolong the life of the spa. Safe, comfortable and clean spa water is a fairly simple task to achieve, but it does require regular attention because of the numerous factors that can alter it. There is no one formula to be followed because of the variables, i.e. quality of the water used to fill the spa, water temperature, user load, etc. For specific guidelines for water quality maintenance, consult your VITA SPA dealer who can assist you to develop a program based on your specific needs. Disregard for water maintenance will result in poor soaking conditions, damage your spa investment and possibly void your warranty.

**Spa water maintenance consists of three separate, easily developed programs:**

1. Sanitizing and maintaining a safe level of sanitizer in the spa water.
2. Balancing the pH and maintaining the recommended mineral content level.
3. Achieving and maintaining water clarity.

### SANITIZING

To destroy bacteria and organic compounds in the spa water, a sanitizer must be used regularly. The use of a bromine floater is recommended. By regulating the amount of tablets, the amount the floater is open, and the length of the filtration cycles, you can control the amount of bromine in your spa. A bromine residual of 2 to 3 ppm is generally considered desirable. A two-part bromine system or granular chlorine (dichlor) are also acceptable sanitizers.

### pH CONTROL

pH is a measure of acidity and alkalinity of the spa water. The recommended pH for spa water is 7.4 to 7.6 ppm. Below 7.0 (considered neutral), the spa water is acidic and can cause damage to the heating system. Above 7.8 the water is too alkaline and can result in cloudy water and scale formation on the spa shell, heater and cover.

### IMPORTANT: NEVER USE CHLORINE TABLETS (TRICHLOR) IN YOUR SPA.

This chemical can have an extremely corrosive effect on certain materials in the spa. Also, the use of liquids, chlorine or acid, are not recommended. Damage caused by use of these chemicals, or improper use of any chemical, is not covered under the spa warranty.

### OPTIONAL VITAZONE WATER PURIFICATION SYSTEM

If you have elected to equip your spa with the optional VITAZONE ozone water purification system, you will find that your water stays fresh and clean with significantly less usage of chemical sanitizer and you will also be able to go longer between spa draining. Read and follow the instructions included with your VITAZONE ozone water purification system to determine how to adjust your chemical usage and filter cycles.

# TROUBLESHOOTING GUIDE FOR PNEUMATIC SYSTEMS

## PROBLEM

## AREAS TO CHECK

Nothing works	If power light on	<ul style="list-style-type: none"><li>• Check circuitry</li><li>• Reset "GFCI" red button</li><li>• Make sure that timer is in center or bottom position</li></ul>
	No heat	<ul style="list-style-type: none"><li>• Check that valves are pulled open</li><li>• Turn thermostat knob up</li><li>• Reset highlimit switch</li><li>• Make sure that timer switch is on "Bottom" position and low speed pump is operating</li></ul>
	Low heat	<ul style="list-style-type: none"><li>• Turn up thermostat clockwise</li><li>• Set longer hours on your time and let run for 24 hours</li></ul>
	Too hot	<ul style="list-style-type: none"><li>• Check that valves are pulled open</li><li>• Turn down thermostat counter clockwise</li><li>• Make sure that timer switch is in center position</li><li>• Make sure that jet or high speed is not "On"</li></ul>
Leak	By equipment	<ul style="list-style-type: none"><li>• Check all 3 unions (hand tighten only)</li><li>• Check for cracks at unions - if cracks are found call dealer for service</li><li>• Call dealer for service</li></ul>
	Location not visible	
Blower	Blower not working	<ul style="list-style-type: none"><li>• Check if blower cord is connected to equipment pak</li><li>• Switch selection button till blower light on</li><li>• Call dealer for service</li></ul>
	No light	<ul style="list-style-type: none"><li>• Check bulb; replace if bad</li><li>• Make sure air line from push button to equipment is on</li><li>• Push light switch button one time on, one time off</li><li>• Check GFCI; if tripped, reset (Elan 220 volts only)</li><li>• Call dealer for service</li></ul>
High speed pump	No high speed pump	<ul style="list-style-type: none"><li>• Check valves are pulled open</li><li>• Switch "Selection" button until "jet" light is on</li><li>• Call dealer for service</li></ul>
Low Speed pump	No low speed pump	<ul style="list-style-type: none"><li>• Make sure timer switch is on the center or bottom position</li><li>• Make sure valves are pulled open</li><li>• Call dealer for service</li></ul>

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