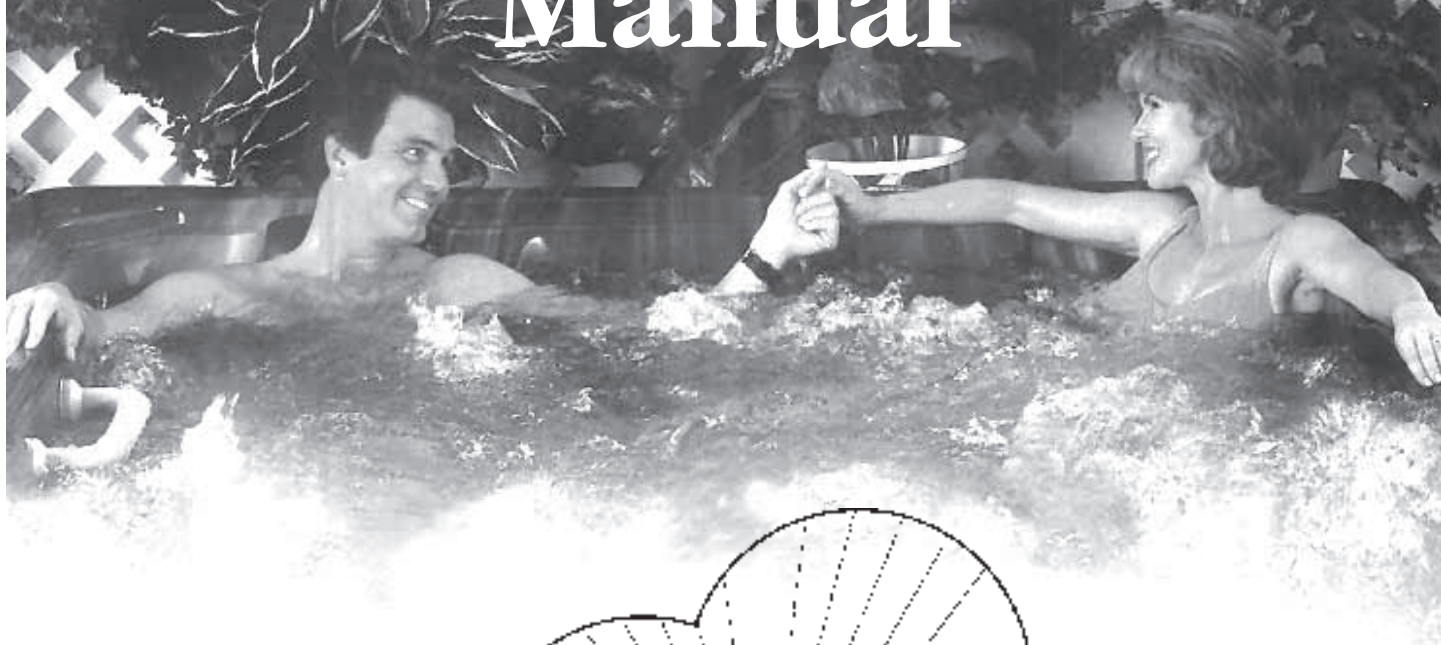




**ECLIPSE SERIES**



# Spa Owner's Manual



**This Manual Contains**

# **IMPORTANT SAFETY INSTRUCTIONS**

**READ AND FOLLOW ALL INSTRUCTIONS  
"SAVE THESE INSTRUCTIONS"**



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## WARNING SIGN MUST BE POSTED

**An important WARNING sign (part Number PL601030 or PL601035 REV. A) is packed with your Leisure Bay Spa. This sign must be posted in a prominent place in close proximity to the spa installation site immediately upon completion of spa installation.**

***THIS WARNING SIGN MUST BE POSTED BEFORE THE SPA IS USED!***

# THIS SPA IS FOR RESIDENTIAL USE ONLY!



## IMPORTANT SAFETY INSTRUCTIONS

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

### 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 8.4mm (No. 8AWG) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 1.5m (5 feet) of the unit.

### 4. Warning

(For permanently installed 230 volt units) The electrical supply for this product must include a suitable rated switch or circuit breaker to open all ungrounded supply conductors to comply with all local electrical codes. In addition all 230 volt installations must be protected by a 230 volt earth leakage detector. (GFCI)

### 5. 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.

### 6. Danger

Risk of Injury. The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible.

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

### 7. Danger

Risk of Electric Shock. Install at least 1.5m (5 feet) from all metal surfaces. As an alternative, a spa may be installed within 1.5m of metal surfaces if each metal surface is permanently connected by a minimum 8.4mm (No. 8AWG) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.

### 8. Danger

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

### 9. Warning To reduce 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 (104°F) are considered safe for a healthy adult. Lower water temperatures are recommended for your children and when spa use exceeds 10 minutes.

B. Since excessive water temperatures have high potential for 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 spa, the user should measure the water temperature with an accurate thermometer since the tolerance 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, 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.

### 10. Warning Sign\*

Included with this spa is a warning sign. It is extremely important that this sign be permanently placed in clear view of any persons using the spa. Occasional spa users may not be aware of some of the dangers hot water poses to pregnant women, small children, and people under the influence of alcohol. If you did not receive a warning sign or your sign has become damaged, please contact your spa dealer and ask for sign number PL601030 or PL601035 Rev. A.

## WARNINGS

1. PEOPLE WITH INFECTIOUS DISEASES SHOULD NOT USE SPA OR HOT TUB
2. TO AVOID INJURY EXERCISE CARE WHEN ENTERING OR EXITING THE SPA OR HOT TUB.
3. DO NOT USE A SPA OR HOT TUB IMMEDIATELY FOLLOWING STRENUOUS EXERCISE.
4. PROLONGED IMMERSION IN A SPA OR HOT TUB MAY BE INJURIOUS TO YOUR HEALTH.

## CAUTION

MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION

## SAVE THESE INSTRUCTIONS



# IMPORTANT SAFETY PRECAUTIONS

*Your spa can be a source of great pleasure. It offers healthful stimulating recreation and is a delightful fun center for you, your family and friends. However, it contains large quantities of water and is deep enough to present inherent dangers to life and health unless the following safety rules are strictly observed.*

**1. Never permit the spa to be used unless it is attended by at least one person other than the bather.**

Someone should be present to lend assistance if the bather should be in trouble due to injuries, cramps, drowning especially in case of children, etc.

**2. Always use care in and around your spa.**

The spa has many rigid, unyielding parts and many areas that become wet and slippery; these are all potentially dangerous when rough play is permitted or if care is not used particularly when entering or leaving the spa.

**3. Keep the water sanitary and healthful at all times.**

Your filter system will remove suspended particles from the water. Regular application of spa chemicals in proper quantities will destroy harmful bacteria and prevent formation of algae. Your surface skimmer will remove insects, leaves, and other debris from the water surface. Unsanitary water is a serious health hazard.

**4. The water in your spa should NOT be warmer than 38°-40°C (100° - 104° F).**

Always keep an accurate thermometer in the water because your spa's thermostat may be in error. Use a high quality, shatterproof thermometer with increments of one degree or less.

The National Spa and Pool Institute considers a temperature of 38°C (100°F) safe and comfortable for a healthy adult. Most healthy adults can enjoy this water temperature for as long as desired, although it may raise the body temperature to the water temperature and eventually become uncomfortable (like a fever). At higher water temperatures the soaking time should be shorter; never soak for more than 20 minutes when the water temperature is 39°C (102°F) or higher. If you are planning a long rest in the spa, lower the water temperature closer to normal body temperature, about 37.2°C (99°F). Some people find even lower water temperatures relaxing and pleasing. Try different water temperatures in the 36.6°-39°C (98°-102°F) range until you find what temperatures suit you best.

**5. Hot water can raise the body temperature high enough to cause heat stroke.**

This can be fatal even to healthy adults. If you have any questions about your own fitness or whether you should soak in the spa, check with your physician.

**6. Prolonged immersion in hot water may induce hyperthermia.**

Hyperthermia occurs when internal body temperature reaches a level several degrees above the normal body temperature of 36.6°C (98.6°F). The symptoms of hyperthermia include: (1) dizziness, (2) fainting, (3) drowsiness, (4) lethargy, (5) increases in the internal body temperature. The effects of hyperthermia include: (1) unawareness of impending hazard, (2) failure to perceive heat, (3) failure to recognize the need to exit spa, (4) physical inability to exit spa, (5) unconsciousness resulting in danger of drowning.

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

Despite the popular image of people in spas drinking wine or other alcoholic beverages, DO NOT use alcoholic beverages before or during spa use. Alcohol is a depressant which causes slowed reflexes and drowsiness, especially in conjunction with the relaxed soaking in hot water. This can lead to sleep or unconsciousness and possibly result in drowning. Using your spa with other people who are also drinking is not a preventative measure since they are likely to become similarly affected by the combinations of alcohol and hot water soaking.

Soaking in hot water causes changes in the circulatory system, such as enlargement of blood vessels near the skin. Therefore, people with a medical history of heart disease, circulatory problems, diabetes, or high blood pressure should check with their physician before using spas. Additionally, people taking medications causing drowsiness, such as tranquilizers, narcotics, antihistamines, or anticoagulants should not use spas without asking their physician.

**8. Broken or missing drain covers should be replaced immediately.**

Accidents can occur when long hair or a body part is trapped by suction from a drain or outlet whose cover is broken or removed. Children are particularly vulnerable, and they should be warned against danger.

## DO NOT :

Do not use electrical appliances in or around your spa. Do not use glass or other breakable items in or around your spa. Do not remove spa cabinet panels and attempt to make repairs. Do not attempt electrical repairs. Retain a Licensed Electrician.

## SAVE THESE INSTRUCTIONS

# Selecting A Good Location



## Site Selection...

Your new spa will provide you and yours with hour upon hour of healthy, relaxing enjoyment. The following suggestions and recommendations will help you select a safe and compatible site for your spa, maximizing your enjoyment.

### **READ ALL SAFETY INSTRUCTIONS!**

*See pages 1 and 2 for other safety requirements and instructions*

#### **1. Licensed Electrician Required**

Electrical installation, (approval of and connection to power source) must be completed by a qualified licensed electrician in compliance with all codes.

#### **2. No Overhead Power Lines**

Do not locate your spa under overhead power lines or in near proximity to existing buried or exposed electrical circuits. See your electrician.

#### **3. Childproof Your Spa**

Plan for limiting access of children. Precautions such as self closing and locking gates or access doors, fencing and other child barriers, as dictated by the site.

#### **4. UL Safety Cover Required**

In addition to its insulating factors, a good cover also provides a measure of additional protection from unwanted access. Select a cover which is classified by the Underwriters Laboratories meeting ASTM F1346-91 requirements.

## **LEVEL, FLAT & SOLID LOAD BEARING SITE CRITICAL**

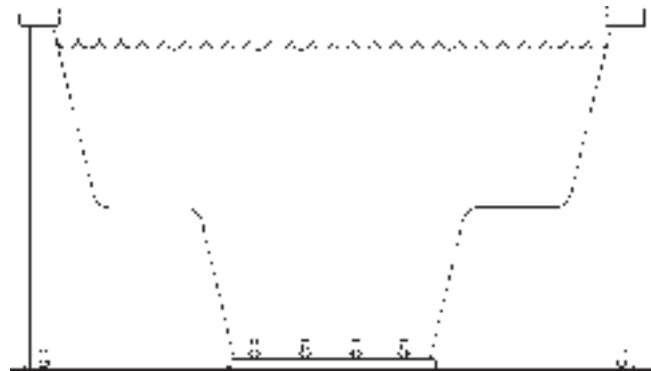
**DO NOT LOCATE ON A SURFACE THAT CAN BE DAMAGED BY WATER**

#### **Solid Load Bearing Site**

The site must provide a solid foundation with a minimum load bearing capacity of 33.75 kgr per 929.03 sq. cm (75 pounds per square foot). Concrete slabs and decks must be designed to support this weight. Do not select a site composed of individual unsupported bricks, blocks or other materials which will shift unevenly and cause damage to your spas internal frame.

#### **Level Site, Flat Surface**

A level site is critical to both the performance and enjoyment of your spa. Water is unforgiving and will always settle level. A flat and level site provides the surface necessary to properly dispense weight between the footwell which bears most of the spa's weight and the structural frame which primarily provides stabilization and secondary support. The importance of proper support for the footwell in conjunction with the spa cabinet can not be over stressed.



SILL RAJOE / ANVEL RECOMMENDOS  
WASHER SPACELIT / INVENAO RECOMENDAVIALE

## **FILLING UP YOUR SPA**

**Make sure that the electrical cord has been routed properly. (See page 4).**

**Do not supply electrical power at this point.**

1. Check to be sure that the drain valve is closed and that the drain safety cap is securely in place.
2. Fill the spa with cold (never warm or hot) water 150 to 200 mm (6" to 8") below the top edge of the spa. Do not overfill as the spa's water level will rise as each person enters the spa.
3. Always keep the spa water level above the jet openings.

**THE BULK OF YOUR SPA'S WEIGHT IS SUPPORTED BY THE FOOTWELL  
Failure to provide support will result in damage to the spa's shell and will void the shell warranty!**

**WARNING: DO NOT SUPPLY POWER TO AN EMPTY SPA!**

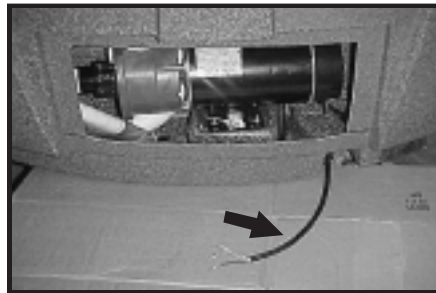
## LOCATION OF ELECTRICAL CORD & DRAIN FOR MODEL 8203



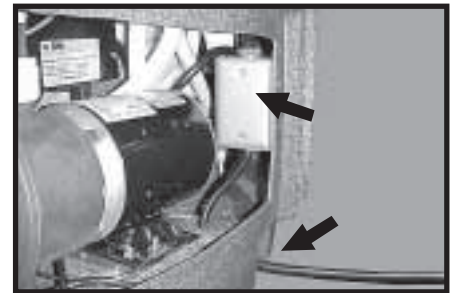
The spa equipment requires a 230V circuit, preferably dedicated to the spa. Carefully read all of the safety requirements before connecting the spa.



Remove & save access panel screws. Use caution when reinstalling the screws. Do not overtighten.



Locate the electrical wire lead. All electrical connections must be done by a licensed electrician.



Suggested sample of installed junction box. Route incoming power through the shell's access hole at the bottom.



The spa drain valve assembly consists of a garden hose connector with a twist on/off valve and a safety drain cap. It is located behind the waterfall (outside) at the bottom of the spa.

### EACH TIME BEFORE FILLING THE SPA

1. Check to be sure that the shut off valve is closed (turn handle clockwise and push).
2. Safety cap is securely in place.
3. If the drain valve is facing a wall, leave enough space between valve and wall (6" minimum) in order to have enough space to connect a garden hose.

### TO DRAIN THE SPA

1. Unplug the electrical power cord. Do not supply electrical power again until spa is refilled.
2. Remove the drain cap that is threaded on valve.
3. Attach a standard garden hose to the threaded part of the drain.
4. Place the other end of the garden hose in a drain area.
5. Twist counter clockwise and pull out to open the shut off valve and monitor the draining.

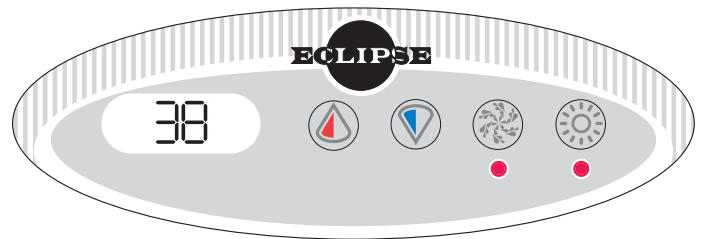
**CAUTION:** Drain waste water may contain chemical residue and unsanitary contaminants which could be a hazard to health or the environment. Drain to specified sanitary sewer only.

# Personal Comfort Control Console

The Personal Comfort Control Console is your direct link to the most sophisticated solid state spa control center available. You are instantly in charge, with a simple touch of the finger you can select any spa's functions from turning on the lights to powering up the Jets. This state of the art control console allows you to program the spa's various operating functions to suit your individual needs by following the user friendly directions which follow. Should you have any questions regarding operations please contact your local dealer.



## 8203 Series Control



### Initial Start-Up

When your Spa is first activated, it is automatically programmed to operate until it reaches 100°F and to filter the water for 2 hours per day (F1) from the moment that the power is turned on.

### Temperature Adjustment 18°C-40°C (65°F-104°F)

When either of the "Accu temp pads" (▲ ▼) are pressed once, the LCD will display the temperature which has been set. Each time either one of these pads are pressed again, the temperature will change by 1°F. After 5 seconds, the LCD will automatically display the current spa temperature.

### Jets

Press the 🌀 pad to run the pump on and off. If left running, the pump will automatically turn off after 15 minutes.

### Light

Press the ☀ pad to turn the spa light on and off. If left on, the light will automatically turn off after 4 hours.

### Spa Water Maintenance

This function enables you to program the amount of water filtration time.

Press ▲ or ▼ and 🌀 to enter the programming mode.

Once in the programming mode press ▲ or ▼ to select the filtration time.

F0 In this mode the water will not be filtered.

F1 In this mode the water will be filtered for 2 hours every day.

F2 In this mode the water will be filtered for 4 hours every day.

F3 In this mode the water will be filtered for 6 hours every day.

To exit press 🌀

### Standby Mode

This function allows you to disable the equipment when the filter needs to be serviced without disturbing the already programmed filtration time.

Press ▲ or ▼ and 🌀 to enter the standby mode. All spa functions are disabled except for freeze control. To exit from standby press any button.

### Display Messages

#### OH "Overheat" (spa is deactivated)

DO NOT ENTER THE WATER. If the spa water has reached 44°C (108°F), Remove the spa cover to cool the water. The spa will remain shut down until the water and the heater sensor cools to 104°F. At that point press any button to reset the spa. If the spa will not reset, shut off the power to the spa and call your dealer or service organization.

#### COL Cool Condition

If the water temperature drops 11°C (20°F) below the set temperature.

#### SN "Non Functional High Temp Sensor" (heater is deactivated)

Open sensor. Call your dealer or service center.

#### ICE Freeze Protection

A potential freeze condition has been detected 12.8°C (40°F). No action is required, the pump will be activated. The spa will automatically heat, until the spa achieves a safe temperature 18.3°C (65°F).

**WARNING**  
**OPERATING THE SYSTEM WITHOUT WATER**  
**WILL CAUSE SEVERE DAMAGE**

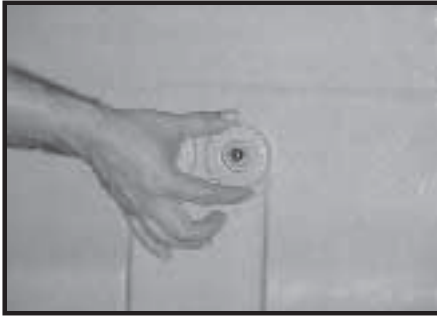
**WARNING: SHOCK HAZARD! NO USER SERVICEABLE PARTS.** Do not attempt to service this control. Contact your dealer or service center for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.



## **8203 SYSTEM OPERATION CONTINUED**



The spa is equipped with twelve hydro-air massage jets, two anti-vortex main drains and an automatic skim filter.



### **ADJUSTING MASSAGE JETS**

The massage jets may be adjusted for both volume and direction.

To adjust the jet for direction simply rotate the jet's eyeball fitting in the direction desired.

To adjust the jet's flow rate, rotate the jet's outer faceplate counterclockwise to increase the flow or clockwise to decrease the flow.



### **SUCTION FITTINGS**

Keeping the suction fitting covers clean and clear of all obstructions is critical in order to have a safe operation of the spa. See the safety instructions rules for details. (page 1)



### **SURFACE SKIM FILTER**

The spa's automatic surface skim filter is designed to remove floating debris and contaminants such as body lotions by drawing water through a specially formulated filter cartridge element. It is critical that this element be routinely cleaned.



#### ***To Clean the Cartridge:***

1. Place system on Standby Mode or disconnect power.
2. Remove the filter cover.
3. Turn cartridge counterclockwise and pull up.
4. Remove the cartridge element and thoroughly rinse with a garden hose until element is free from dirt and debris.
5. Return the cartridge to the filter well by following steps 1 - 4 in reverse order.



### **AIR INJECTION VENTURI ADJUSTMENT**

Air injection into the massage jet water flow may be controlled by manipulation of the venturi dials located on either side of the spa. Each dial is independent and controls up to 5 jets respectively.



## **SPA OPERATION / WATER CHEMISTRY**

Spa water chemistry (or water balance) affects the safety of your equipment as well as the appearance of your spa water. Water balance has five factors: pH, total alkalinity, calcium hardness, temperature and total dissolved solids. pH is the most critical but total alkalinity and calcium hardness must also be watched closely. Low calcium hardness can lead to corrosion of equipment, while high calcium hardness can lead to scaling, cloudy water and staining. Water temperature should never exceed 40°C (104°F), and total dissolved solids should be kept below 1500 PPM.

Algicidal and sanitizing chemicals are either alkaline or acid. Sodium and calcium hypochlorites are alkaline. Chlorine gas and practically all other dry chlorine spa products are acid. On the market are a number of bromine sanitizers. Bromines are usually preferred since they don't emit a strong chlorine odor.

***SEE YOUR SPA WATER EXPERT FOR ADDITIONAL INFORMATION***

***USE OF CALCIUM HYPOCHLORITES OR TRICHLORS WILL VOID WARRANTY***

1. Check and adjust water conditions. You must maintain proper chemical balance to insure safe sanitary conditions and to prevent your spa from becoming a breeding place for bacteria. This is done by:
  - A. Test daily and maintain pH between 7.2 and 7.8. Adjust if necessary, above 7.8 use pH decrease, if below 7.2 use pH Increase. Improper pH can damage spa finish, equipment, cause eye irritation and chemical loss. Use dosage according to manufacturer's label.
  - B. Test alkalinity and maintain at 80 ppm to 140 ppm. Adjust if necessary, above 140 ppm use pH Decrease, if below 80 ppm use Total Alkalinity Control. Use dosage according to manufacturer's label.
  - C. Test daily and maintain proper sanitizer level. It's recommended to use bromine sanitizer and maintain bromine at 3.0 - 5.0 ppm. Typically two or three bathers relaxing in an average spa with 103°F (39.4°C) temperature will consume all the bromine sanitizer in about twenty minutes. Therefore, prolonged or heavy use may require additional bromine to maintain safe sanitary conditions.
  - D. "Shock" (with a non-chlorine shock) once a week and after each water change. Do not use spa until the bromine residual has dropped to less than 5.0 ppm. NOTE: Improper pH will cause early corrosion to your pump. Corrosion is not handled under any warranty.

## **SPA MAINTENANCE SCHEDULE**

### **DAILY**

Test and maintain pH: Ideal range 7.2 - 7.8

Test and maintain bromine: Ideal range 3.0 - 5.0 ppm

### **WEEKLY**

Test and maintain alkalinity 80 - 140 ppm

"Shock" with a non-chlorine shock

Add Spa Clear

### **MAINTENANCE**

Add defoamer as needed

Inspect filter cartridge every 2 weeks and clean when needed





## **FREEZE PROTECTION**

### **DO NOT ALLOW THE SPA TO FREEZE**

If the spa is to be stored or transported in temperatures 0°C (32°F) or lower, it is critical that the unit be fully winterized.

1. The spa itself must be completely emptied.
2. The main drain valve must be in the open position.
3. The drain safety cap must be removed and stored.
4. All screws on the wet end of the pump must be loosened three turns.
5. The filter cartridge element must be removed, dried and stored.
6. The massage jet faces must be removed and stored.
7. The spa must be inverted for at least five minutes to facilitate draining of the internal plumbing.

### **CLEANING THE SPA**

Do not use cleaners or compounds containing harsh abrasives. Also, avoid using heavy-duty rubbing or buffing compounds. Use a soft liquid cleaner.

### **CARE OF DELUXE VINYL HARDCOVER**

Vinyl coated fabrics are perhaps the most maintenance-free fabrics ever produced and certainly will provide exceptional service life if given the proper care. Almost all vinyl manufacturers now provide information concerning the necessary cleaning procedures for their products. In reality, all care maintenance instructions are the same for all coated fabrics regardless of their manufacturing origin.

Products are now on the market that are manufactured to enhance the beauty and service life of all vinyls. However, by using methods described below with minimal care and attention, you should enjoy years of satisfaction and pride with any vinyl coated fabric.

### **EVERYDAY SOIL**

A gentle mixture of any mild soap and warm water will generally dissipate most common soil from the surface. Using a soft cloth, wash the area to be cleaned and rinse. If stubborn dirt remains, as a stain embedded in the grain of the vinyl, use a soft brush, and if necessary, a touch of cleaning powder. In both situations, rinse and dry with a soft cloth.



