

PORTABLE HOT TUB
USER MANUAL



**OPERATING INSTRUCTIONS
& MAINTENANCE GUIDELINES**

**PROUDLY
MADE IN**



THE USA

The graphic consists of a black silhouette of the United States map. Overlaid on the map is a large, white checkmark. The top-left portion of the map, representing the stars of the American flag, is filled with a pattern of small white stars.

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IMPORTANT HOT TUB OWNER INFORMATION

Sunbelt Hot Tubs utilizes the latest in technology to provide you with a hot tub of the highest quality that is easy to maintain. It is imperative that you read all of the information provided in your homeowner's manual and maintain your hot tub utilizing the correct chemicals and maintenance schedule.

The spa surface is made of Lucite Acrylic and must be protected from direct sunlight by use of the spa cover provided. Exposure of the spa surface and fittings to direct sunlight or ultraviolet rays may cause damage to the spa's surface. Exposure will void warranty to the spa surface and to the fittings. Sunbelt Hot Tubs Installation Requirements must be met by the homeowner including slab and electrical requirements. Any deviation from the Installation Requirements will result in void of warranty.

Sunbelt Hot Tubs strives to provide the best possible hot tub for your use therefore modifications and enhancements to the hot tub, mechanics, equipment, and structure may be made which effect the specifications, illustrations, and/or instructions within this manual.

Sunbelt Hot Tubs Hot Tubs meet all requirements and regulations of ETL laboratories. Sunbelt Hot Tubs ETL listing is 9901934 and conforms to UL STD 1563 of Electric Hot Tubs, Spas and Associated Equipment.

Further information may be requested from Sunbelt Hot Tubs, 3924 Dunvale Rd. Houston, TX 77063.

IMPORTANT HOT TUB SAFETY INFORMATION

- WARNING

RISK OF ACCIDENTAL DROWNING - Extreme caution must be used exercised at all times to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the hot tub unless they are closely supervised at all times.

- WARNING

DANGER - To reduce the risk of injury, do not remove the suction fittings. Never operate a hot tub if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the equipment assembly.

- WARNING

DANGER - Risk of electrical shock. Install at least 5 feet (1.5m) from all metal surfaces. Do not permit any appliance such as a radio, television, or light within 5 feet (1.5m) of the hot tub. Install at least 5 feet (1.5m) from inside wall of hot tub using non-metallic plumbing.

- WARNING

TO REDUCE THE RISK OF INJURY -

- The water in the hot tub should never exceed 104 F (40 C). Water temperatures between 100 F (38 C) and 104 F (40 C) are considered safe for a healthy adult. Lower water temperatures are recommended for younger children and anytime hot tub use exceeds 10 minutes.
- Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possible pregnant women should limit spa water temperatures to 100 F (38C).
- Before entering a hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature regulating devices varies.
- The use of alcohol, drugs or medication before or during hot tub use may lead to unconsciousness with the possibility of drowning.
- 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 hot tub.

- WARNING

FOR EQUIPMENT ASSEMBLIES WITH A GAS HEATER - Risk of suffocation. On hot tubs with a gas heater the heater must be placed outside unless proper ventilation can be provided for an indoor installation.

SAVE THESE INSTRUCTIONS!

QUICK START GUIDE

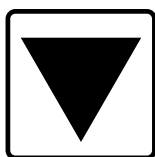
In a hurry to jump in? Please read the basic setting instructions below. Your hot tub comes with universal default settings. If you keep these settings, you only need to remember how to set the temperature and the pressing the SET key when you are done using the hot tub.

The rest of this manual will explain the function of each of the keys on the control panel, how to change programmed setting, and what each setting does. It will also explain the error messages you may encounter, their significance, and how to correct them.

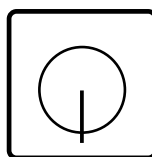
SETTING TEMPERATURE



UP



DOWN



SET

Press and hold the UP (TEMP) key for 2 seconds. The display will flash the current selected temperature.

Using the UP or DOWN arrow keys, scroll to the desired temperature. Press the SET key to lock in the new temperature.

The controller will lock in the new temperature and then display the current temperature. Not pressing the SET key after entering your desired temperature will cause the hot tub to revert to the previous setting. Your selection will not be saved.

IMPORTANT: Always turn down the heat BEFORE you drain the hot tub.

THE SET KEY

After using the hot tub, press the SET key to tell the microcontroller you are done using the spas. It will then take over the spa's management including the different filtration cycles, heat maintenance, economy modes and protection against freezing.

START-UP PROCEDURE

Once the hot tub is delivered installation is complete, the next step is to fill it and heat the water.

IMPORTANT: It is recommended to perform the following procedure when you drain and refill the spa, to protect the heater element.

- Power must be turned OFF at the circuit breaker and at the G.F.C.I., before you start.
- Open the access door and inspect all fittings to ensure they are tight and slide-valves are fully extended.
- Fill the tub, using your garden-hose, to the proper water level.
- To apply power, push the RESET (ON) button at the G.F.C.I. & reset circuit breaker to the ON position.
- Push the "Jets" button on the control panel activating the high speed pump. Keep pump running for at least three minutes to purge the air out of the plumbing.
- Once air bubbles stop coming out of the jets and the pump is primed, select the desired temperature.

IMPORTANT: TURN DOWN THE HEAT BEFORE YOU DRAIN/REFILL YOUR HOT TUB TO PROTECT THE HEATER.

IMPORTANT THINGS TO KNOW: PSOL or PSOH error codes = NO WATER PRESSURE

- A pressure-switch protects the heater element when the water level drops below the recommended level. The switch is activated by water pressure in the heater housing, meaning the pump is running and there is water in the spa.
- In a new installation, or when the tub is drained then refilled, a small volume of air is trapped in the plumbing and in the heater-housing, lowering the pressure, disabling the pressure-switch, which may consequently shut down the heater.
- Or, the opposite is also possible, where the trapped air exposes part of the heater element but not enough to disable the pressure-switch resulting in a burnt element. To avoid damage to the heater, refer to the start-up procedure.
- The filter cartridge(s) must be cleaned periodically. It should be totally submerged. If the top of the cartridge is above water level, air is sucked into the pump's intake causing pump surges, lower pressure and damage to the heater.

CONTROL PANEL 1500 FUNCTIONS

JETS

Press once to activate the low jets. Press again for high jets. A third depression turns the jets OFF, if the heater is off.

*AIR

Press, for air bubbles or second single speed pump if applicable. Button will be marked "AUX".

LIGHT

Light switch ON/OFF.



CONTROL PANEL 2000 FUNCTIONS

JETS

If primary pump is dual Speed. Press once to activate the low jets. Press again for high jets. A third depression turns the jets OFF, if the heater is off.

*AUX

Press, for third or fourth pump. If auxiliary pump is dual speed the AUX button functions as above.

*AIR

Press, for air bubbles or second pump single speed.

LIGHT

Light switch ON/OFF.



TO INVERT THE TEMPERATURE DISPLAY:
PRESS THE SET & UP ARROW KEYS TOGETHER AT THE SAME TIME.

HOT TUB COMPONENTS

Depending on the hot tub model you selected and optional features you may have added, you may or may not have all of the features depicted below. They are listed here so that you may easily identify and become familiar with the functions of your specific tub.

CONTROL PACK AND TOP SIDE CONTROL:

The Control Pack is the electronic brain for the functions of your tub. This is how your hot tub's components communicate with one another synchronously and allow safe function of each component. It works automatically with pre-settings and manually with your input on the Top Side Control.

Your specific Control Pack and Topside Control will vary slightly based on the configuration of your hot tub, such as number of pumps, jets, and additional features. Some two-pump or more systems will have an "Auxiliary" Top Side Control located on a different side of the tub than where the main Top Side Control is located. This Auxiliary remote allows for you to change basic settings without getting out of the hot tub or interrupting your relaxation.



WATER PUMP/S & JETS:

Your hot tub will operate with one or more pumps. The pumps power the water through the circulation system and jets. You will find one or more types of jets in your hot tub, depending on the specifications of the model and customization. Your hot tub's jets are specially designed with the latest in innovative technology to remain secure and leak free for years to come.



HOT TUB COMPONENTS

AIR CONTROLS, DIVERTERS, & WATER FEATURE VALVES:

Your new hot tub may have one or all of these features. Every hot tub will have at least one or more air control knobs. These regulate the amount of air flow pushed through your jets. This feature can increase the power of hydro-massage. The more air you allow through with the air control, the more powerful the massage.

If your hot tub has a water feature (waterfall/s or spout/s), it will have a control knob/s to control the flow of this feature. You can choose to have the feature turned completely off or flow at maximum capacity, and at any rate in between.

If your spa has a diverter knob, this will allow you to divert the power of a secondary pump from one portion of the spa to another. For example, if your spa has a foot dome with jets installed, you will likely have a diverter to shift the power of the jets from the foot dome jets to a seat in the tub. The path of diversion will depend on the model & features you have selected.



AIR CONTROL KNOB



WATER FEATURE
CONTROL KNOB



DIVERTER KNOB

SUCTIONS:

Your hot tub is equipped with the number of VGB High Flow Suctions in ratio to the number of pumps to ensure even water-flow and safety. These are located at the bottom of, or in the footwell of the tub.



DRAIN ADAPTER:

The drain adapter allows for easy draining of the hot tub using your water hose. The adapter connects the drain source at the bottom of your hot tub to a standard size hose.



SETTING TIME OF DAY

Your hot tub maintains a 12 hour AM / PM internal real time clock TOD (Time Of Day). The clock based on the line frequency. There is no battery back up. Whenever the power is turned off, TOD is no longer correct. It defaults to 12:00 AM whenever the power is turned on.

Setting TOD is only necessary if you are going to program the filtration and silence cycles. If you use the factory default settings then you do not need to set TOD.

If you set TOD then control will display time every first 10 seconds of each minute. If TOD has not been set then it will not be displayed.

SETTING TOD:

1. Press and hold the DOWN (Time) arrow key for 2 seconds. The controller will display 12:00 noon.
2. Using the TEMP and TIME keys scroll up and down to the desired hour. Once selected, press the SET key. Repeat the process the set TOD to the correct minutes.

COOL DOWN TIMER: A 30-second timer keeps the low speed jets, ON, after the heater turns OFF, to remove residual heat from the heater element.

USER TIMER: A built-in, 20 minutes elapsed-time clock switches off any active function.

ECONOMY MODE: The Economy mode manages water temperature, filtration and energy consumption knowing “when” to heat to maintain water temperature. The Economy mode starts when the heater is turned off and the spa is not in use.

Upon entering the ECONOMY mode the message “ECON” is displayed. During the Economy mode the spa controller is in stand-by, three hours at a time, monitoring and sampling the water temperature.

At the end of every Economy period which is 3 hours the controller activates the low jets only for 5 minutes to perform the following:

- Filter and sanitize the water. Check your spa manual for the type of sanitizer in your spa.
- Stabilize the water temperature and heat if necessary, in that case the low jets run more than 5 minutes for the duration of the heating cycle.

Important: Tie down your spa cover to minimize heat loss and to conserve energy. The message “ECON” is not an error code.

PROGRAMMING

The control panel comes with factory settings. Programming the controller is optional. The following options are necessary only if you have certain requirements or you need to increase the filtration and heating cycles. Parameter Programming is a means by which the spa owner/user can change the various timing elements and calibrate temperature. The process is simple and intuitive. Only 3 keys are used: UP, DOWN, and SET. To program one or more parameters follow the outlined this procedure:

1. Press SET and DOWN keys together. The first message in the menu, FP1 will be displayed.
2. Use the UP & DOWN keys to scroll thru the messages in the menu.
3. Press the SET key to display the current value associated with the current message.
4. Use UP or DOWN keys to increase or decrease the value.
5. Press SET to lock in the new value and return to menu.
6. If another item needs programming go to number 2 above.
7. To Save changes scroll to message SEND and press SET.
8. To discard changes and restore previous values scroll to message CANC and press SET. The menu of the parameters is circular. Scrolling is from first to last or from last to first.

When in programming mode please note that this mode will be cancelled if there is no key activity for a period of 60 consecutive seconds. Programming mode is aborted and all changes will be restored to previous values.

ERROR MESSAGES

CoLd:

Temperature in the spa heater housing is below 40° Fahrenheit and the status of the heater element is unknown. Therefore the low speed pump or circulation pump will run continuously until the temperature rises above 45°.

oH - Over Heat:

The hot tub is at a temperature that is above 108°F. The controller will not accept temperature settings above 104°F. If for some reason the temperature rises over the maximum level, the controller will display a flashing 105°F to 108°F. Please DO NOT use you hot tub when the temperature is flashing or the OH message is displayed.

In the summer and especially in warm regions, ambient temperature may be high enough to overheat the hot tub naturally. Sunbelt Hot Tubs are well insulated and can store a lot of heat in the equipment compartment.

HLEr - Hi Limit Over Heat:

Your control system has a backup water temperature sensor called the HiLimit. If the sensor is disconnected or shorted or if the temperature should reach above 112°F, the HiLimit protection circuitry will force all functions off and will flash the HLEr message on the display. It is not possible to use the hot tub when this error is in effect. When the error has been corrected, you must press the SET key to acknowledge that you, the hot tub user, are aware of the error condition and should have the proper repairs done.

SEoP - Sensor Open or Disconnected:

The control system cannot determine the spa temperature. The heater is disabled but the hot tub is operational. The sensor must be replaced or reconnected for this message to go away.

SESH - Sensor Short:

The sensor is shorted and is non-functional. The temperature cannot be determined, the heater is disabled, but the hot tub is still operational.

PSoC, PsoL, PsoH - Pressure Switch Open with Circulating, Low or High pump(s):

The pressure switch is a device sensitive to pressure inside the heater manifold. Pressure in the heater manifold is generated by a pump pushing water through the manifold. If one pump is running and the pressure switch does not sense any pressure, then there is an indication of no water flow. To prevent the heater from being turned on when there is no water running through, the heater is turned off and one of these messages will be displayed indicating which pump is supposed to be running.

A pressure switch error may also be indicated if the switch is out of adjustment or there is an air lock in the pump. Adjusting the pressure switch is best left to a trained technician. An air lock may happen whenever the spa is drained and refilled with water, or if the water level in the hot tub is so low as to permit air to be sucked in by the pump. To bleed an air lock; switch off power, loosen one of the pump fittings a quarter of a turn. You will hear the sound of escaping air, and then water will start dripping. Re-tighten the fitting.

ToE - Time-Out Error:

It is not likely that you will ever see this error. It indicates that the system's heartbeat is out of control, all devices will be shut down and the hot tub is unusable. This message will rarely ever occur, if it does, please contact Sunbelt Hot Tubs.

HOT TUB MAINTENANCE GUIDE

EASY CARE GUIDE - THE BASICS

- Place “Spa Frog” mineral purifier in skimmer tray or inside the inline frog system.
- Test pH, Alkalinity, Chlorine levels 1 - 2 times per week (regularly) with test strips. Add pH up or down and chlorine granules accordingly.
- Maintain a minimum chlorine level of 0.5 – 1 ppm. A 1/2 ounce of Granular Sodium Dichlor after each use works very well.
- Add 8 oz. of “Metal Gon” on start-up and each time the water is changed.
- Shock after each use or at least once a week (if tub is not used) with nonchlorine shock such as Leisure Time’s “Renew”. **Any hot tub shock that is at least 30% Potassium Peroxymonosulfate work sufficiently.
- Add 1 – 2 oz of water clarifier and scale remover per week.
- Remove and pressure wash cartridge filters with your garden hose every 1-2 weeks.
- If your hot tub has the FROG Inline System, replace “Spa Frog” mineral purifier every 4 months. A great way to know it is time to replace your mineral cartridge is after 3 cycles of changing the bromine cartridge.
- Change the Frog Bromine Cartridge of your FROG system approximately every 6 weeks, or when empty.

HOT TUB CHEMICAL GUIDE

The following guide is a general outline of spa care and is intended for use with water testing in order to maintain the spa. The following are all chemicals and techniques recommend for use with all Sunbelt Hot Tubs.

Test Strips: Use at least two times a week to check your chemical levels. Utilize the instructions on the test strips to perform the test and read results accurately. Do not add chemicals to the spa without testing the spa first. Leaving the strips outside or storing them with other chemicals will impair the functions of the strip. Test kits from a local spa or pool supplier are often easier to understand and interpret than test strips.

Spa Defender/Stain and Scale Control: This product will remove calcium from the water. Calcium can make deposits in the jets, plumbing, and pumps. Use ½ oz per week.

Clarifier: This is usually a viscous blue liquid. This will remove oils, soap, and suntan lotions. Clarifier will stop the spa from foaming without leaving a residue, but it takes several hours to completely clear the water. Use ½ oz per week.

Metal Gon: This product will remove copper and iron from the water. Use one pint with each refill of fresh water.

Ozone: If the ozone generator is installed in your Sunbelt Hot Tub it will run while it is on the filtration cycle. Ozone will greatly reduce the total amount of chemicals you will use over the lifetime of your tub.

PH Down: Always test the PH first, add PH Down to the water to lower the levels of PH if needed. Granular PH Down is usually more effective than the liquid form. Re-test daily until the PH is within normal range. DO NOT USE MURIATIC ACID!

Spa Frog Mineral Stick: Works on eliminating bacteria and preventing algae growth while helps to neutralize ph. A unique blend of minerals to make your water softer, safer and sparkling clear. This can be used with bromine, chlorine, and ozone system.

Renew Spa Shock : Sodium Monopersulfate, or "Renew" is a chlorine free sanitizing product that keeps water clean and healthy. Add Renew after use to destroy wastes left behind and eliminate bacterial contaminants.

PH Plus: Always test the PH before adding PH plus. Only add PH Plus when the PH levels are low.

De-foamer: This product contains silicone and alcohol and temporarily prevents the spa water surface from foaming. Use very sparingly and only if absolutely necessary. A few drops at a time (no more than four) is all that is needed. When the alcohol evaporates the accumulated silicone will cause the water to become cloudy.

Spa Fast Gloss : This is an excellent product to use after draining and cleaning your spa. This wax will improve the shine of the acrylic and protect it.

Aromatherapy: If your Sunbelt Hot Tub is fitted with an aromatherapy canister that emits the aromas through the blower system, the beads can be purchased at most spa and pool suppliers. Remember to use only beads that are located inside of mesh netting to ensure they do not get into the spa components. Liquid aromatherapy is another option if you do not have the aromatherapy option on your hot tub. Remember to use one ounce of aroma per 300 gallons of water. NEVER USE aromatherapy products intended for bath use, bath salts, bubble baths, or bath oils in your hot tub. This will cause significant problems within your spa components, filters, and water chemistry.

MOST IMPORTANTLY: NEVER USE POOL CHEMICALS FOR YOUR SUNBELT SPA!

Pool chemicals are manufactured for large bodies of water and are highly concentrated. This will damage your acrylic surface, your hot tub's components, and **WILL VOID YOUR WARRANTY!**

DRAINING AND RE-FILLING - EVERY 120 DAYS:

It is necessary to drain your hot tub at least every 120 days. Do not hesitate to drain the spa more if needed or wanted. If water becomes difficult to clean, gritty due to large dirt deposits, clouded with body oils and any other situation that results in hard to maintain water chemistry change the water. Do not fill the hot tub with soft water.

TO EMPTY THE HOT TUB:

- Turn off the hot tub at the breaker.
- Remove the plug from the drain plug. The plug can be used by turning counter clockwise.
- Attach the drain plug water hose adapter to your garden hose. This should be done prior to attaching to the hot tub as it will drain immediately.
- Attach the drain plug water hose adapter to the tub.
- The hot tub will drain. On some models there will be a small amount of water left in the bottom of the footwell and/or the bottom of a deep seat. This water can be removed by hand. This small amount of water will be diffused through the large amount of water during refill.

TO FILL THE HOT TUB:

- Disconnect the hose and drain plug water hose adapter from the hot tub. Reattach the plug to the drain plug.
- Fill it with your garden hose by placing it into the interior of the hot tub. Do not place the hose into the aromatherapy canister; it is not a fill valve. Fill the spa. It is best to place the hose in the filter canister to fill.
- Turn on the breaker. Remember not to turn the tub back on until the water is at the proper level as this could result in dry firing of the pumps and heater and damage to the components.
- Check your settings on your topside control to ensure filtration, temperature and readings are to your personal liking.

WINTERIZATION: Winterization is the process of emptying your spa of all water and turning the product off during winter/cold months. All Sunbelt Spas are designed for year round use and are intended for use throughout cold weather conditions. The spa controls will automatically start a freeze protection mode if the temperature reaches cold levels.

As it is very difficult to remove all water from tubing and plumbing lines to ensure they do not freeze and crack, Sunbelt Hot Tubs does not recommend retail consumers perform winterization of Sunbelt Hot Tubs products. Please contact your dealer, a local spa service company, or Sunbelt Hot Tubs in order to have a professional winterization preformed.

It is imperative that you do not just turn your spa off and leave it with water and no power.

REGULAR SCHEDULED MAINTENANCE

The following section is a listing of the regular scheduled maintenance items you should complete to keep your hot tub working well.

Testing Your Water - Minimum 2-3 Times A Week: Test the water by placing a test strip into the water according to the manufacturer's instructions. Read the results and increase and decrease your chemicals according to the findings on your test strip.

Filtration Cleaning - 2 Week Intervals:

- Turn off your breaker so the filter cycle will not activate while cleaning.
- The filter is located inside the skimmer or floating filter compartment.
- The filter cartridge should be removed by turning the filter cartridge in a counter-clockwise direction. It can be pulled out of the skimmer.
- Using a regular garden hose with a spray nozzle, rinse filter until clean. Every few months it may be necessary to soak the filter in a cleaning solution. Make sure it is a filter cleaner designed for hot tub use as soaps often leave residue that creates bubbles and problems with the components.
- After soaking in a filter cleaner, spray the filters, making sure to remove all of the solution before replacing into the filter compartment.
- Replace the filter.
- Turn the breaker back on.

Cleaning The Hot Tub Surface - As Needed: The surface of your spa is Lucite Cast Acrylic. This is a hard, non-porous surface that prevents dirt from accumulating and resists stains.

- **For Normal Care:** Use a soft cloth or sponge with soap and water making sure that the soap is not introduced into the spa water. Rinse well and dry with a soft, clean cloth. If using a household cleaner make sure it is recommended by the manufacturer.
- **For Dust/Dry Dirt:** Use a soft clean damp cloth and wipe.
- **For Grease, Oil, Paint, Ink Stains:** Use isopropyl (rubbing) alcohol. Rinse well with a dry soft clean cloth.
- **For Small Scratches:** Buff lightly with a clean cloth and use either an automotive polishing liquid or toothpaste containing a fine polishing ingredient.
- **For Deep Scratches:** Sand the surface lightly with 600 grit "wet or dry" paper and buff with a fine polishing compound.
-

Make sure never to allow your spa to come into contact with – abrasive cleaners, nail polish, nail polish remover, wintergreen oil, dry cleaning solutions, lacquer thinners, gasoline, pine oil and similar items.

Maintaining The Hot Tub Cabinet - As Needed:

- Regular surface cleaning with a damp cloth will be adequate for most installations and keep the Synthetic cabinet looking its best.
- Stubborn surface stains and accumulation can be removed using a mild soap or detergent with a soft clean cloth. Household stains, food, body oils and airborne contaminants will be removed using the mild soap as well.
- Make sure not to use any kind of solvent on Synthetic Cabinets. Clean any chemical spills immediately including, suntan lotion, bug spray and household chemicals. Do not attempt to clean the surface with abrasive, oil-based cleaners, furniture polish or wax, or any prepared cleaning solution other than soap or detergent and water.
- Synthetic can be scratched but normal scratches from wear and tear will become less noticeable as Synthetic weathers to a matte finish in the first year of outdoor use.

HOT TUB COVER MAINTENANCE

Whether you are in the market for a new hot tub cover or just want to get the most out of your existing one, there are a few simple steps to ensure longevity. It is a good idea to thoroughly clean your cover every 120 days. The easiest way to remember this is to do it at the same time you do your water changes.

Fun Facts: Hot Tub cover material (cover vinyl) is a backed fabric with the outer layer made of polyvinyl chloride (PVC). In the manufacturing process, it is sealed with a special topcoat containing compounds called plasticizers, plus softening agents to keep it supple and attractive. All vinyl, even the special marine grade used in our premium hot tub covers, is a UV- sensitive material which can degrade after long time sunlight exposure or mildew formation.

Basic Tips to Prevent Your Investment from Damage:

- 303 Protectant conditions beautifully and prevents fading & cracking. We recommend only 303 Aerospace Protectant. With regular use, 303 blocks up to 100% of harmful UV to prevent sun damage. When applied to the underside of your cover, it also helps prevent mildew. Using the wrong vinyl treatment product is worse than using nothing at all! The well-known automotive vinyl treatment contains silicone oil which is death to vinyl.
- If a vinyl protectant product label says “flammable” or contains petroleum distillates, keep it AWAY from your cover.

Cleaning Your Cover:

- Rinse the cover with cool water using a garden hose.
- sing warm soapy water and a clean soft cloth, wipe the entire cover down.
- DO NOT USE laundry detergent, bleach, alcohols, liquid dishwasher soaps or any other harsh cleaners.
- Rinse the cover of all soap and allow to fully dry.
- On a warm dry day, stand the cover on end to allow the cover to drain fully of any water.

After cleaning the cover, spray a light coating of the 303 protectant on top and cover apron. Spread evenly with a damp terry cloth. Repeat procedure on the underside of your cover. Repeat monthly in the summer and every 3-4 months the rest of the year.

Do Not Use products such as Armor All, Turtle Wax, and petroleum-based cleaners, as they will cause the cover to dry dramatically and crack.

Dealing with Mildew: Unzip the jacket and carefully remove the foam cores. Clean the inside of the jacket. Clean the core's plastic vapor barrier. Spray off surfaces with a garden hose and towel-dry all surfaces. Allow for additional air-dry time of the jacket. Sunlight exposure for an hour or two helps rid residual mildew from inside the jacket. Carefully reassemble when dry.

Care Tips: A spa cover manufacturer's warranty covers original defects in materials, but will not apply to damage caused by abuse, accidents, neglect or normal wear-and-tear. We've put together information that you need for proper maintenance to get the most life out of your spa cover.

Tips for Protecting Foam Core:

- Never allow children to play or jump on a cover, this may cause breakage of the core. Grit from shoes or bare feet can also mark the vinyl covering.
- Avoid placing sharp objects on the cover, which can puncture the core liner, permitting water to enter and be absorbed by the foam core.
- Animal claw scratches or chewing can have the same result, so if your furry little friend likes to chew try to keep them away. Avoid placing glass or any other sort of object that may create excessive heat from the magnified effects of sunlight. This heat can actually cause the foam core to melt and is not covered by warranty.

Water Intrusion: Although a few water droplets inside the clear plastic liner which protects the foam core are not a major concern, a large accumulation of liquid water needs attention. The cause is normally a vapor barrier puncture or break in the plastic seam around the perimeter, which is easy to fix yourself. If you believe that your cover core liner may contain a lot of liquid water and it has a zipper vinyl jacket open the zipper and carefully remove the foam core for inspection. Look for any puncture or openings that it may have around the perimeter seal. Even a small hole can let in a lot of water over time.

Tie Down Straps & Broken Latches: Tie down straps are there for one purpose: to secure the cover to the spa. To avoid ripping the straps, never use them to carry or remove the cover. Another common cause of ripped straps is failure to unlatch all of the locks before attempting to lift the cover off of the tub. This type of damage is not covered by any hot tub warranty.

Snow or Water Accumulation: Cover manufacturer's warranties do not cover snow or other weight-related damage. So if it snows where you live, make sure you help prevent breakage of the cover's foam core by carefully removing excess accumulation during winter months.

Sometimes a hot tub cover which has been weight-stressed will develop water puddles due to sagging. Some cheap covers (as well as older ones) were not designed with a tapered core for proper water runoff, which exacerbates the problem. If you start to get a small puddle on your cover, unzip the vinyl covering and carefully remove the foam core, then flip it over. Flipping it sometimes corrects the issue (at least temporarily) if not too severe.

Lucite® SPA

Feel the difference with **Lucite® Spa Cast Acrylic**, the highest quality, most durable material available. Its hard, non-porous surface prevents dirt from accumulating and resists mold and mildew. With normal use **Lucite® Spa Cast Acrylic** is so durable it will retain its high gloss for years with only the minimum of care. To maintain the elegant look of **Lucite® Spa Cast Acrylic**, follow the simple steps below.

①	For normal care and cleaning use a soft cloth or sponge with soap and water. Rinse well and dry with a soft clean cloth. If using a household cleaner, make sure it is recommended for use on acrylic by the manufacturer.
②	Remove dust and dry dirt with a soft clean damp cloth.
③	Remove grease, oil, paint and ink stains with isopropyl alcohol (70% rubbing alcohol). Rinse well and dry with a soft clean cloth.
④	Never use abrasive cleaners or cleaners with coarse grit. These will dull the surface.
⑤	Do not allow your Lucite® Spa Cast Acrylic surface to come into contact with: nail polish remover, Wintergreen oil (methyl salicylate) lacquers, thinners, paint stripper or cleaners containing acetone.
⑥	Avoid placing sharp objects on the surface, as they may scratch. Small scratches can be removed by buffing lightly with a clean cloth and automotive polishing compound or toothpaste. For deeper scratches, sand the surface lightly with 400 grit 'wet and dry' paper and buff with fine grit buffing compound.

Keep this surface glossy and beautiful by giving it proper care, and remember with **Lucite® Spa Cast Acrylic** proper care is EasyCare™.

EasyCare™

WARNING!



NO TRI-CHLOR!

Tri-Chlor is very corrosive to the spa surface - above and below the water - and can affect pumps and jets.



172 GPM SPA SUCTION

CMP# 25200-202-000



VGB-2008

For Multiple Drain Use Only
172 GPM - Submerged
Life: 7 Years
Wall
Only

Read and keep these instructions for future reference.

Always plumb and install all suction fittings according to all building codes that apply in your area.

WARNING: When using two or more suction fittings on a common suction line, suction must be separated by a minimum of 3 ft or they must be located on two different planes (i.e., one on floor and one on the wall).

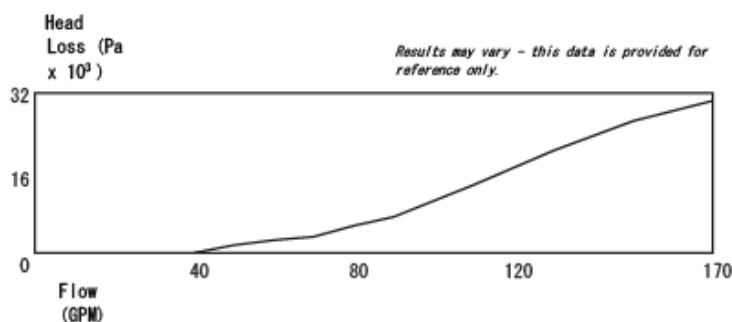
WARNING: DO NOT locate suction outlets on seating areas or on backrests for such seating areas.

The maximum flow rating for this suction fitting is 172 GPM. This suction fitting is designed for installation on side wall of portable spa and hot tubs in conjunction with at least one other suction fitting per pump. DO NOT adapt suction fitting to any pipe size smaller than ASTM 2" SCH 40 PVC. Suction fitting and fasteners should be observed for damage or tampering before each use. Missing, broken, or cracked suction fittings shall be replaced before use. Loose suction fittings shall be reattached or replaced before use. Mount suction fittings on the walls, in the foot wells of portable spas and hot tubs. Do not mount directly under seats. Follow all winterizing instructions and recommendations supplied by the spa manufacturer.

Tools Needed: Hole Saw, Torque Wrench, Phillips Head Screwdriver

INSTALLATION INSTRUCTIONS (WALL INSTALLATION ONLY)

1. Using hole saw, cut/drill the installation hole.
2. If optional gasket is used, gasket must be placed around threads of suction wall fitting at this time.
3. Place threads of wall fitting through hole from the inside (water side) of tub.
4. Install nut from dry side of tub onto the threads of the wall fitting.
5. Using torque wrench, torque nut to <44.0 ft.lbs. (60Nm)
6. Verify that the suction cover is properly tightened and secured with stainless steel screw.



INSTALLATION NOTES:

1. Mount suction outlets on the wall or floor. DO NOT locate suction outlets on seating areas or on backrests for seating areas.
2. Always use multiple suction outlets. DO NOT use with single drain applications. Use with single drain applications will void any and all warranties.
3. When using two or more suction fittings on a common suction line, suction must be separated by a minimum of 3 ft or they must be located on two different planes (i.e., one on floor and one on the wall).
4. To reduce the risk of drowning from hair and body entrapment, install suction fittings with a marked flow rate in gallons per minute that exceeds the flow rate of your system by at least 25%. Increasing size of the pump may increase flow rate of suction beyond rated safety limits causing entrapment or death.
5. CMP drain covers are only certified for use with CMP sumps and frames. Do not mismatch with parts from other manufacturers.
6. If silicone is used on fitting, verify that silicone is compatible with ABS and PVC plastics.
7. DO NOT over-torque fitting. Excessive torque can cause premature failure of threads or damage to suction fitting increasing risk of entrapment.



DANGER

Hair or body parts blocking the spa or pool suction may become trapped and held against the suction fitting. Keep hair and clothing a minimum of 12 inches from all suction fittings and drains at all times. Entrapment against the suction fittings can result in drowning or other severe injury. Never sit on or lean up against suction fittings.

CONTACT INFORMATION

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