



OWNERS GUIDE

to Years of Enjoyment in your TubLicious™ Hot Tub

TubLicious™

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READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

1 DANGER: Risk of Injury. The suction fitting in this hot tub is sized to match the specific water flow created by the pump. Should the need arise to replace the suction fitting or the pump, be sure that the flow rates are compatible. Never operate the hot tub if the suction fitting is broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting. (Refer to Page 25)

2 ELECTRICAL SUPPLY (if connecting to 240VAC): The electrical supply for this product must include a suitable rated switch or circuit breaker to open all ungrounded supply conductors to comply with section 422-20 of the National Electrical Code, ANSI / NFPA 70. The disconnect must be readily accessible and visible to the hot tub occupant but installed at least 5 feet (1.5 m) from the hot tub water.

3 WARNING: To Reduce Risk of Injury:

- a)** The water in a 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 young children and when hot tub use exceeds 10 minutes.
- b)** Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possible pregnant women should limit hot tub water temperatures to 100° F (38° C). If pregnant, please consult your physician before using a hot tub.
- c)** Before entering the hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary as much as +/-5° F (2° C)
- d)** Persons suffering from obesity or a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using a hot tub.

SAFETY INFORMATION

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

WARNING: Children should not use hot tubs without adult supervision

WARNING: Do not use hot tubs unless all suction guards are installed to prevent body and hair entrapment.

WARNING: People with infectious diseases should not use a hot tub.

WARNING: To avoid injury, exercise care when entering or exiting the hot tub.

WARNING: Do not use drugs or alcohol before or during the use of a hot tub to avoid unconsciousness and possible drowning.

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

WARNING: Water temperature in excess of 100° F (38° C) may be injurious to your health.



IMPORTANT SAFETY INSTRUCTIONS CONTINUED

WARNING: Before entering the hot tub, measure the water temperature with an accurate thermometer.

WARNING: Do not use a hot tub immediately following strenuous exercise.

WARNING: Prolonged immersion in a hot tub may be injurious to your health.

WARNING: Do not permit electric appliances (such as lights, telephone, radio, television etc.) within 5 feet (1.5 m) of this hot tub unless such appliances are built-in by the manufacturer.

WARNING: The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tubs.

WARNING: People using medication and / or having an adverse medical history should consult a physician before using a hot tub.

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

READ, FOLLOW AND SAVE THESE INSTRUCTIONS (if connecting to 240VAC)

- a) A green colored terminal or a terminal marked G, Gr, Ground, Grounding or the symbol * is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors that supply this equipment.
- b) At least two lugs marked 'Bonding Lugs' are provided on the external surface or on the inside of the supply terminal box / compartment. To reduce the risk of electrical shock, connect the local common bonding grid in the area of the hot tub to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.
- c) All field installed metal components such as rails, ladders, drains or other similar hardware within 5 feet (1.5 m) of the hot tub shall be bonded to the equipment grounding buss with copper conductors not smaller than No. 6 AWG.

HYPERTHERMIA

Prolonged immersion in hot water may induce hyperthermia. A description of the causes, symptoms, and effects of hyperthermia are as follows:

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

The effects of hyperthermia include:

- a) Unawareness of impending hazard;
- b) Failure to perceive heat;
- c) Failure to recognize the need to exit hot tub;
- d) Physical inability to exit hot tub
- d) Fetal damage in pregnant women; and
- e) Unconsciousness and danger of drowning





IMPORTANT SAFETY INSTRUCTIONS CONTINUED

CAUTIONS

1. Observe a reasonable time limit when using the hot tub. Long exposures at higher temperatures can cause high body temperature. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could result in possible drowning.
2. Always test the hot tub water temperature before entering the hot tub. Enter and exit the hot tub slowly. Wet surfaces can be very slippery.
3. Proper chemical maintenance of hot tub water is necessary to maintain safe water and prevent possible damage to hot tub components.
4. For exercise, the water should not exceed 90° F (32° C).
5. Use the straps and clip tie downs to secure the cover when not in use. This will help discourage unsupervised children from entering the hot tub and keep the hot tub cover secure in high-wind conditions. There is no representation that the cover, clip tie-downs, or actual locks will prevent access to the hot tub.

WARNING SIGNS

Your TubLicious Hot Tub has been labeled with an important Warning Label. This label should be permanently placed in a location that is visible to the TubLicious user.

 <h2 style="margin: 0;">WARNING</h2>	
DURING PREGNANCY, SOAKING IN HOT WATER MAY CAUSE DAMAGE TO THE FETUS. LIMIT USE TO 10 MINUTES AT A TIME.	
PREVENT DROWNING SPA HEAT SPEEDS UP EFFECTS OF ALCOHOL, DRUGS, OR MEDICINE AND CAN CAUSE UNCONSCIOUSNESS. IMMEDIATELY LEAVE SPA IF UNCOMFORTABLE OR SLEEPY.	PREVENT CHILD DROWNING WATER ATTRACTS CHILDREN. ALWAYS ATTACH A SPA COVER AFTER EACH USE.
 <h2 style="margin: 0;">WARNING</h2>	
PREVENT DROWNING 1. SUPERVISE CHILDREN AT ALL TIMES 2. ATTACH SPA COVER AFTER EACH USE. 3. SPA HEAT CAN CAUSE HYPERTHERMIA AND UNCONSCIOUSNESS 4. SPA HEAT IN CONJUNCTION WITH ALCOHOL, DRUGS, OR MEDICATION CAN CAUSE UNCONSCIOUSNESS.	PREVENT ELECTROCUTION 1. NEVER PLACE ANY ELECTRIC APPLIANCE WITHIN 5 FEET OF SPA
NOTE: THIS MARKING IS TO BE REMOVED BY THE OWNER ONLY	

Getting ready for delivery and setup of your new TubLicious Hot Tub

Before you begin to enjoy your TubLicious Hot Tub please read the following instructions thoroughly. Your TubLicious Hot Tub is light weight and portable making it easy to enjoy almost anywhere you want! Your deck, boat dock, beside your RV or even in your home. Just make sure that it is above ground on a level surface and that the equipment compartment is easily accessible.

While most hot tubs require a level concrete pad to sit on your TubLicious Hot Tub does not. If you are considering placing your hot tub on a raised deck or indoors we recommend you consult with a licensed contractor to confirm the area will hold a TubLicious Hot Tub that is filled with water.

NOTE: If you install your TubLicious Hot Tub indoors make sure that the surrounding area is waterproof or water resistant. During normal usage water may be splashed out of the hot tub. CSMI is not responsible for any water or humidity damage to any indoor location for any reason.

LOCATION OF YOUR NEW HOT TUB: Some points to consider

- How close is the hot tub from the exit or entrance to your house? (Consider the cold weather)
- Is the path to the hot tub clean of debris, sand, grass and clippings? (So as not to track into hot tub)
- Is there protection from wind, inclement weather?
- Can neighbors or passersby see the hot tub?
- If your hot tub is to be placed near where sprinklers may hit the skirt, shell or equipment, please adjust or cap them to prevent prolonged water exposure.

ELECTRICAL REQUIREMENTS: TUBLICIOUS USES A 120 VOLT ELECTRIC SPA PACK

IMPORTANT: About the GFCI Circuit Interrupter - The GFCI (Ground Fault Circuit Interrupter) is an electrical safety switch that automatically shuts off power to the hot tub in case of an electrical malfunction. The GFCI should be OFF before TubLicious is filled. Manually turn off power to the hot tub any time by using the GFCI. Push the switch to the OFF position. After turning off the GFCI check to see that the topside control panel window is blank to confirm the power is off. When you want to turn the power back on reset the GFCI by returning the switch to the ON position. Do not use your TubLicious Hot Tub until you understand the operation of the GFCI.

The GFCI is in the 120V cord. The cord comes out from the rear right side of the spa. The outlet that you connect the TubLicious to must be rated at 120 volts and 15 amperes. (Refer to Page 23)

NOTE: You may convert your TubLicious to 220V. If converted you must install a 40 amp GFCI breaker. This must be done by a **Licensed Electrician**. Minimum wire size is #8. All connections must conform to local electrical codes. Power connections, and control jumper settings are contained in the wiring diagram inside the control box cover.



FILLING YOUR TUBLICIOUS HOT TUB

- Your new hot tub has left the factory cleaned and polished. You may have to clean out any dirt that has accumulated during shipping. Use warm water and a sponge or cloth.
- Be sure that all fittings are connected, secure and hand tightened in the equipment area (Refer to picture on Page 24). Your TubLicious hot tub is shipped with fittings disconnected to ensure no damage or freezing occurs during the hot tub's route from our factory to your home.
- Fill your TubLicious hot tub with your garden hose. Place the hose inside the skimmer/ filter canister and secure the hose in place. Filling through the filter helps to allow most of the trapped air in the pumps and heater to be eliminated. (Refer to Page 23)
- Note: TubLicious recommends that you do not fill your hot tub with hot water. Excessively hot water (over 107°F) may cause damage to components in the spa pack as well as all plastic and acrylic components.
- Also: Do not fill your hot tub with water from a water softener. If your water is extremely hard your TubLicious dealer can help you to remedy this problem.
- Continue filling the hot tub to half (3/4) way up the skimmer opening. Remove the hose and close the filter canister. (See Filter Maintenance Section)

CONTROL PANEL

Please read the CONTROL PANELS Card (See pages 14-15) pertaining to the hot tub topside control and control box supplied with your unit. This must be done before starting up your hot tub to prevent any damage to the unit.

INITIAL START-UP OF PUMP

- Turn power off at the breaker.
- Ensure all union fittings are tightened (Refer to Page 24)
- Turn power on at GFCI, mounted in cord. Turn on pump. If circulation is not visible, turn off pump #1, open bleeder valve on top of pump and allow air to escape until water comes out steadily. Re-tighten bleeder valve (finger tight only). Note: Bleeder valve only needs to be loosened and not completely removed (Refer to Page 24). If there is still no circulation, gently loosen the pump union until only water is present and no air.
- Allow pump to circulate for 2-3 minutes before activating heater.

WARNING: RUNNING THE PUMPS WITH NO WATER CIRCULATING IN HOT TUB, COULD DAMAGE THE PUMPS AND PUMP SEALS



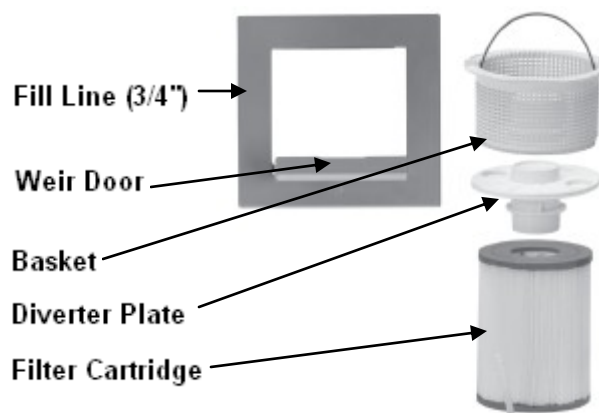
Filtration starts as soon as flow is steady through the filter. As the filter cartridge removes the dirt from the hot tub water, the accumulated dirt causes flow resistance.

CLEANING AND REPLACING FILTER CARTRIDGE

Your hot tub has been designed for quick and easy maintenance. The filter cartridge should be rinsed by hose once a week and cleaned with a cartridge cleaner once a month. A second filter cartridge is recommended and will speed up the process. This can be purchased from your TubLicious dealer.

FRONT ACCESS SKIMMER / FILTER

- Turn power OFF at the GFCI mounted in the cord.
- Pull open skimmer weir door.
- Reach in and remove skimmer basket.
- Pull straight up and out to remove basket. Clean out debris and reinstall.
- Remove diverter plate.
- Remove filter cartridge.
- Clean with a garden hose and high-pressure nozzle. Periodically you may need to soak your filter in a cartridge filter cleaner to remove excess minerals and or oils. You can purchase this cleaner from your TubLicious dealer.
- Rinse filter thoroughly before installing.
- Reverse this procedure to re-install the filter cartridges.
- Put pump #1 on low speed. This will help pull the cartridges into place.



Draining and Winterizing your Hot Tub

DRAINING YOUR TUBLICIOUS HOT TUB

After a period of 3-4 months, detergent residues from bathing suits and soap film will build up in your hot tub water. Once this happens, your hot tub water will appear cloudy and should probably be replaced.

- Turn power OFF at the GFCI breaker mounted in the cord.
- Locate the spa drain on the rear left side of the spa and attach garden hose Refer to Page 23).
- Remove the safety cap and attach garden hose. Pull outward on the garden hose. This will open the drain valve fully.
- Drain water to a convenient area. (Hot Tub water may harm grass or plants if sanitizer levels are high).
- Your TubLicious will drain except for a small portion left in the foot well. This can be removed with a sponge and a pail.

DRAINING YOUR TUBLICIOUS HOT TUB CONT.

- Once empty, clean as required. (Refer to Page 12 for cleaning recommendations)
- To finish remove garden hose and close spa drain and attach safety cap.

REFILLING YOUR TUBLICIOUS HOT TUB

- Please follow the instructions on page 7, filling your hot tub.
- Follow start up instructions on Page 7.

WINTERIZING

If it is necessary to leave your hot tub unattended for long periods of time during cold weather conditions, you should drain your hot tub to avoid accidental freezing caused by power outages. Your TubLicious dealer can perform the following winterizing procedures if you are not completely comfortable with them.

- Refer to DRAINING YOUR TUBLICIOUS HOT TUB section on Page 8.
- After draining, your TubLicious hot tub may still have water remaining in the equipment and plumbing fittings. Disconnect the hand tightened union fittings going to and from the pump (Refer to Page 24). Be careful not to lose the o-rings between the unions and pump housing.
- Leave drain valve in the open position and safety cap off.
- To completely drain the plumbing lines, a wet/dry shop vac can be used to draw out any remaining water. Place the vac hose over the jet fittings in the hot tub as well as the plumbing lines in the equipment area.
- Remove the filter cartridge and store in a warm dry area.
- Clean the spa shell and place hot tub cover on hot tub. Be sure to lock the cover in place in case of high winds or rain.

EMERGENCY SITUATIONS: To eliminate freezing in the event of equipment failure, use a 100-watt light bulb or small heater via extension cord and place it in the equipment area, keeping it away from plumbing lines. This will help for a short period of time until proper service can be rendered.

SPRINGTIME START UP

If you winterized your TubLicious Hot Tub we recommend you contact your authorized TubLicious Service Provider to restart your unit.



MP3 Player

Your TubLicious Hot Tub may be equipped with an optional MP3 Player option for your enjoyment.

- Locate adapter jack inside the MP3 docking station
- Plug MP3 Player line into adapter jack (wire found in Start-up chemical bucket)
- Use MP3 Player as per normal to choose songs and set volume levels
- Place MP3 Player in docking station and close door

Water Quality Maintenance

Maintaining the quality of the water within the specified limits will serve to enhance your enjoyment and prolong the life of the hot tub's equipment. It is a fairly simple task, but it requires regular attention because the water chemistry involved is a balance of several factors. There is no simple formula and there is no avoiding it. A careless attitude in regard to water maintenance will result in poor and potentially harmful conditions for soaking and even damage to your hot tub investment. For specific guidance on maintaining water quality, consult your Authorized TubLicious Dealer who can recommend appropriate chemical products for sanitizing and maintaining your hot tub.

CAUTION: Never store hot tub chemicals inside the hot tub's equipment area.

pH Control:

pH is a measure of relative acidity or alkalinity of water and is measured on a scale of 0 to 14. The midpoint of 7 is said to be neutral, above which is alkaline and below which is acidic. In hot tub water, IT IS VERY IMPORTANT TO MAINTAIN A SLIGHTLY pH CONDITION OF 7.2 to 7.8. After filling the spa with water, check chemical levels using test strips provided with the start-up chemical bucket. There are 2 packages, each 100 grams (pH PLUS and pH MINUS). If the pH is below 7.2 you will need to add 5 grams of pH PLUS into the hot tub water when the pump is running. If the pH is above 7.8 add 5 grams of pH MINUS into the hot tub water when the pump is running. Do not use the hot tub for 20-30 minutes, let the chemicals dissolve into the water. Check chemicals again and add more if required.

NOTE: 1 teaspoon = 10 grams

Problems become proportionately severe the further outside of this range the water gets. A low pH will be corrosive to metals in the hot tub equipment. A high pH will cause minerals to deposit on the interior surface (scaling). In addition, the ability of the sanitization agents to keep the hot tub clean is severely affected as the pH moves beyond the ideal range. That is why almost all hot tub water test kits contain a measure for pH as well as sanitizer.

READ THE LABEL ON THE CHEMICAL PACKAGES BEFORE USING



Sanitizing:

To destroy bacteria and organic compounds in the hot tub water, a sanitizer must be used regularly, either chlorine or bromine. Bromine residual of **3** to **5** ppm is generally considered desirable. A two-part bromine system or granular chlorine (Dichlor) can also be acceptable sanitizers. Chlorine residual should be **1** to **3** ppm. After filling the spa with water, check chemical levels using test strips provided with the start-up chemical bucket. There is a 100 gram chlorine package in the start-up chemical bucket. If chlorine is below the recommended range add 5 grams of CHLOR into the hot tub water when the pump is running. Do not use the hot tub for 20-30 minutes, let the chemicals dissolve into the water. Check chemicals again and add more if required.

NOTE: 1 teaspoon = 10 grams

READ THE LABEL ON THE CHEMICAL PACKAGES BEFORE USING

Alkalinity:

Alkalinity booster (ALK UP) is used to raise the total alkalinity in the spa water. The total alkalinity reading is a very important part of water balance. Total alkalinity should be maintained between **100** to **120** ppm. After filling the spa with water, check chemical levels using test strips provided with the start-up chemical bucket. There is a 100 gram Alkalinity UP package in the start-up chemical bucket. If Alkalinity is below the recommended range add 9 grams of ALK UP into the hot tub water when the pump is running. Do not use the hot tub for 20-30 minutes, let the chemicals dissolve into the water. Check chemicals again and add more if required.

NOTE: 1 tablespoon = 18 grams

READ THE LABEL ON THE CHEMICAL PACKAGES BEFORE USING

Calcium Hardness:

Calcium Hardness is used to raise the Calcium Hardness in the spa water. Low calcium can lead to corrosion. Calcium Hardness should be maintained between **150** to **250** ppm. After filling the spa with water, check chemical levels using test strips provided with the start-up chemical bucket. There is a 100 gram CALCIUM HARDNESS UP package in the start-up chemical bucket. If Calcium Hardness is below the recommended range add 45 grams of CAL UP into the hot tub water when the pump is running. Do not use the hot tub for 20-30 minutes, let the chemicals dissolve into the water. Check chemicals again and add more if required.

NOTE: 1 tablespoon = 18 grams

READ THE LABEL ON THE CHEMICAL PACKAGES BEFORE USING



Stain and Scale:

Stain and Scale is used to prevent and eliminate scale in the spa water. Stain and Scale should be added initially when the spa is filled as well as weekly for preventative maintenance. **For initial application add 30ml** of STAIN AND SCALE into the spa water directly. Stain and Scale should be added while the spa is being filled. Turn the pump on to circulate the water for at least 1 hour before adding any other chemical to ensure that it has had time to react in the water. Weekly maintenance **15ml** of STAIN AND SCALE into the spa water. Do not use the hot tub for 20-30 minutes, let the chemicals dissolve into the water.

READ THE LABEL ON THE CHEMICAL PACKAGES BEFORE USING

IMPORTANT: Do not use Hydrogen Peroxide based sanitizers in your hot tub. When using Trichlor chlorine or Bromine tablets you must use a floating dispenser. These chemicals can have an extremely corrosive effect on certain materials in the hot tub. Damage caused by the use of these chemicals, or improper use of any chemicals is not covered under the hot tub's warranty.

Other Additives:

Many other additives are available for your hot tub. Some are necessary to compensate for out-of balance water, some aid in cosmetic water treatment and others simply alter the feel or smell of the water. Your Authorized TubLicious Dealer can advise you on the use of these additives.

Product Care Guide

Your Authorized TubLicious Dealer carries a wide variety of care and maintenance products. For more information please contact your TubLicious Dealer.

HOT TUB INTERIOR

Your TubLicious hot tub has a fiberglass reinforced acrylic shell. Generally dirt and stains will not adhere to the surface. To properly clean the surface, we recommend wiping it with a soft damp cloth (or sponge) using household soap or liquid detergent and rinsing thoroughly with fresh water. Stubborn dirt or stains may be removed by using Spic & Span adequately dissolved in water.

DO NOT use any cleaning products containing abrasives or solvents, since these could damage the surface. Harsh chemicals should never be used on acrylic surfaces. Damage to the shell due to the use of harsh chemicals is not covered under warranty.



STAINLESS STEEL CONTROLS AND COMPONENTS ABOVE THE WATER LINE

To preserve the stainless steel finish of the controls and components above the water line, we recommend they be wiped with a dry soft cloth after each use of your hot tub.

TUBLICIOUS COVER CARE

A well cared for hot tub cover can provide many years of protection for your hot tub. Be sure to clean and condition your cover at least once a month—more often if needed. Cover strap installation instructions should come with the manufacturer's warranty package. These are also referenced on page 19-20.

Your cover needs to be cleaned and conditioned because vinyl can dry and become brittle, spoiling your spa's appearance. Dry, brittle vinyl can also tear at the seams and stress points. Quality materials, internal sewn reinforcements and careful workmanship can only go so far against the ravages of Mother Nature. Luckily, proper care is easy.

VERY IMPORTANT: We recommend a vinyl conditioner. Your TubLicious Dealer carries a wide variety of care and maintenance products. Choose a pleasant day each month to remove your cover from the hot tub and lie it on a flat surface accessible by garden hose. Douse the cover with a healthy amount of water from the hose or a bucket to rinse away loose dirt or debris. Using a soft bristle brush and a mild solution of dishwashing liquid (about one teaspoon of detergent to two gallons of water), and with a gentle circular motion, scrub the cover to clean. Be careful not to let any areas of the cover dry before they're thoroughly rinsed. Now apply the vinyl conditioner as directed on the container. Massage the conditioner into the cover in a gentle but firm manner. Before replacing the cover on your hot tub, wipe and rinse any dirt from the bottom of the cover. When you are ready, put the cover on the hot tub.

NOTE: To remove tree sap, use lighter fluid (not charcoal lighter, but the fluid used in cigarette lighters) **Use Sparingly**, then immediately apply conditioner to that area.



INITIAL START UP

Balboa 300F-Series Operation Guide

For Systems with Software v41 Only.

Initial Start-up

Your spa will enter Priming Mode (**Pr**) when it is energized. During Priming Mode, press “Jets” button repeatedly and be sure the pump is free of air. Priming Mode lasts less than 5 minutes. Press “Temp” to exit. After Priming Mode, the spa will run in Standard Mode (see Mode section). Some panels may not have a “Temp” button. On these panels the “Set,” “Warm,” or “Cool” buttons are used.

Pump 1 low-speed is responsible for heating and filtration and will be referred to simply as the pump.

In multi-button sequences, if the buttons are pressed too quickly in sequence, they may not register.



Button shapes and labels may vary.

Temp Control (80°F - 104°F / 26°C - 40°C)

The last measured water temperature is constantly displayed. The water temperature displayed is current only when the pump has been running for at least 1 minute.

On panels with a single “Temp” or “Set” button, to display the set temperature, press the button once. To change the set temperature, press the button a second time before the display stops flashing. Each press of the button will continue to either raise or lower the set temperature. If the opposite direction is desired, allow the display to revert to the current water temperature. Press the button to display the set temperature, and again to make the temperature change in the desired direction.

On panels with “Warm” and “Cool” buttons, to display the set temperature, press “Warm” or “Cool” once. To change the set temperature, press a temperature button again before the display stops flashing. Each press of “Warm” or “Cool” will adjust the set temperature.

After three seconds, the display will stop flashing and begin to display the current spa temperature.

Jets

Press “Jets” to turn the pump on or off, and to shift between low and high speeds (if equipped). If left running, the pump will turn off after a preset length of time, which on some systems may be as long as 2 hours for low speed. Low speed may run automatically at times, during which it cannot be deactivated from the panel, but high speed may be operated. The ozone generator (if installed) will activate anytime low speed is running.

Light

Press “Light” to operate the spa light. Turns off after 4 hours.

Mode

Depending on system configuration, mode changing may not be available and will be locked in Standard Mode.

Mode is changed by pressing “Temp,” then “Light”.

Standard Mode maintains set temperature. **SE** will be displayed momentarily when you switch into Standard Mode.

Economy Mode heats the spa to the set temperature only during filter cycles. **EC** will display when water temp is not current, and will alternate with water temp when the pump is running.

Sleep Mode heats the spa to within 20°F/10°C of the set temperature only during filter cycles. **SL** will display when water temp is not current, and will alternate with water temp when the pump is running.

Preset Filter Cycles

The first preset filter cycle begins 6 minutes after the spa is energized. The second preset filter cycle begins 12 hours later.

Filter duration is programmable for 1, 2, 3, 4, 5, 6, 7, or 8 hours. The default filter time is 1 hour.

To program, press “Temp,” then “Jets.” Press “Temp” to adjust. Press “Jets” to exit programming.



DIAGNOSTIC MESSAGES

Diagnostic Messages

Message	Meaning	Action Required
	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings will be preserved until next power up.
--	Temperature unknown.	After the pump has been running for 1 minute, the current water temperature will be displayed.
HH	"Overheat" - The spa has shut down.* One of the sensors has detected 118°F/47.8°C at the heater.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
OH	"Overheat" - The spa has shut down.* One of the sensors has detected that the spa water is 110°F/43.5°C.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F/41.7°C, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
SA	Spa is shut down.* The sensor that is plugged into the Sensor "A" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat condition.)
Sb	Spa is shut down.* The sensor that is plugged into the Sensor "B" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat condition.)
Sn	Sensors are out of balance. If alternating with spa temperature, it may just be a temporary condition. If flashing by itself, spa is shut down.*	If the problem persists, contact your dealer or service organization.
HL	A significant difference between temperature sensors has been detected. This could indicate a flow problem.	If the water level is normal, make sure all pumps have been primed. If problem persists, contact your dealer or service organization.
LF	Persistent low flow problems. (Displays on the fifth occurrence of HL message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.	Follow action required for HL message. Heating capability of the spa will not reset automatically; you may press any button to reset.
dr	Possible inadequate water, poor flow, or air bubbles in detected in the heater. Spa is shut down for 15 minutes.	If water level is normal, make sure all pumps have been primed. Press any button to reset. This message will reset within 15 minutes. If problem persists, contact your dealer or service organization.
dy	Inadequate water detected in heater. (Displays on third occurrence of dr message.) Spa is shut down.*	Follow action required for dr message. Spa will not automatically reset. Press any button to reset manually.
IC	"Ice" - Potential freeze condition detected.	No action required. All equipment will automatically activate regardless of spa status. The equipment stays on 4 minutes after the sensors detect that the spa temperature has risen to 45°F/7.2°C or higher. An optional freeze sensor may be added to protect against extraordinary freeze conditions. Auxiliary freeze sensor protection is advisable in colder climates. See your dealer for details.

* - Even when spa is shut down, some equipment will turn on if freeze protection is needed.

Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt service of this control system. Contact your dealer or service organization 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.

P/N 40887_A 11/08/2007

BALBOA
water group



AIR CONTROL: Mounted on the lip of the hot tub, it induces warm air from the equipment enclosure into the jet stream through venturi action. (Picture on Page 25)

CONTROL BOX: Basically the “heart” of the hot tub. Power is distributed to any / all functions of the hot tub: pumps, LED lighting, heater elements, etc. (Picture on Page 24)

CONTROL PANEL: Mounted on the top of the hot tub and controls the functions of the hot tub. (Picture on Page 25)

SPA DRAIN VALVE: Used in draining the hot tub. Located in the rear left hand corner of the hot tub . (Picture on Page 23)

FILTER: The filter cleans the hot tub by passing water through a filter cartridge where debris and impurities are removed. A front access skimmer means the cartridge is accessed through the door of skimmer. (Picture on Page 23)

HEATER: The thermostatically controlled heater raises the temperature of the hot tub to the desired setting. (Picture on Page 24)

JETS: The purpose of the jets is both to provide a massaging movement of the water and also to move the water through the filter. Each jet has an air and water fitting. (Picture on Page 25)

UNDERWATER LIGHT: Special lenses can be used to achieve the desired mood lighting in the hot tub. (Picture on Page 25)

SKIMMER: This is the rectangular outlet at the water level. The skimmer removes surface debris to the filter. The water level in the hot tub should be kept at the center of the skimmer for optimum operation. (Picture on Page 23)

SUCTION FITTING: During operation of the equipment, the suction works in conjunction with the skimmer to draw water from the bottom of the hot tub through the filter, keeping the hot tub sparkling clean. (Picture on Page 25)



NO HEAT OR HEAT TOO LOW

Probable Cause	Recommended Action
Breaker OFF	Turn breaker OFF then ON twice. On the cord and main breaker for the house if necessary.
Inadequate water flow due to dirty filter.	Clean filter cartridge.
Pump not primed.	Refer to the section of this guide on pump priming. O-ring may be missing or damaged on air bleeds.
Improper line voltage.	Have a Licensed Electrician check the line voltage.

HOT TUB LIGHT WON'T COME ON

Probable Cause	Recommended Action
Light bulb burnt out	Replace bulb (non warranty)
Dirty Connection	Check to see if there is anything covering the connection on the housing that holds the light bulb

PUMP WILL NOT PRIME

Probable Cause	Recommended Action
Pump on but no water flow	Loosen top bleeder valve on pump until water comes out steadily.
No water in pump	Make sure water level in hot tub is midway up the skimmer wall fitting . Open the top pump bleed valve on face of pump until water flows out.
Air lock	Bleed off air at bleeder valve.
Blocked lines	Check skimmer, suction for blockage.
Pump surges (jets lose power then come back, then lose power again)	Check water level. Check filter air relief valve to ensure o-ring is in place and is tightly closed. Check union on front of pump to ensure tightness. Check bleeder valve on front of pump to ensure tightness.

JETS WON'T COME ON

Probable Cause	Recommended Action
Jets turned off	Turn jet face to open jets
Pump not primed	Refer to the section in this guide on pump priming.

LOW WATER FLOW

Probable Cause	Recommended Action
Dirty filter	Remove filter cartridge and clean.
Low voltage or incorrect voltage	Have a Licensed Electrician check the line voltage



SPA IS LEAKING

Probable Cause	Recommended Action
Loose connection	Hand tighten all quick disconnects and fittings, check gaskets and o-rings.

PUMP MOTOR DOESN'T RUN

Probable Cause	Recommended Action
No power to the motor	Check power switches and circuit breakers. Check motor plug into control panel.
Blown fuse	Replace pump fuse.
Thermal overload has tripped	Wait until motor cools off.
Pump jammed from foreign matter in Impeller	Call dealer for recommended action.
Motor overheats during hot days while filtering	Reprogram your controls to cycle during the coolest parts of the day or shorter cycles.

PUMP MOTOR RUNS HOT

Probable Cause	Recommended Action
Pump ran dry	Call Dealer for recommended action.
Motor vent is blocked.	Clear debris or obstruction to the motor vent.
Restricted suction lines	Clear lines of debris.

NOTE: These motors will feel hot to the touch. This is normal. The internal overload protector will turn the motor off if there is an overload or high temperature problem.

MP3 PLAYER DOESN'T PLAY

Probable Cause	Recommended Action
No power from the MP3 Player	Recharge MP3 player battery.
Cable from MP3 to Adapter jack not connected properly	Ensure ends are pushed all the way inside receptacle.
Speakers are under water	The speaker's performance will be affected to the degree they are under water.



TubLicious Cover Tie Down Strap Installation

Part List:

Items	Description	Total Qty
①	Female Receptacle Assembly with black webbing	4
②	Flat Washers, Stainless 304, 0.125 ID x 0.312 OD x 0.041 Thk	8
③	Screws, No 4 x 3/4 lg Pan hd, Phil Dr	8

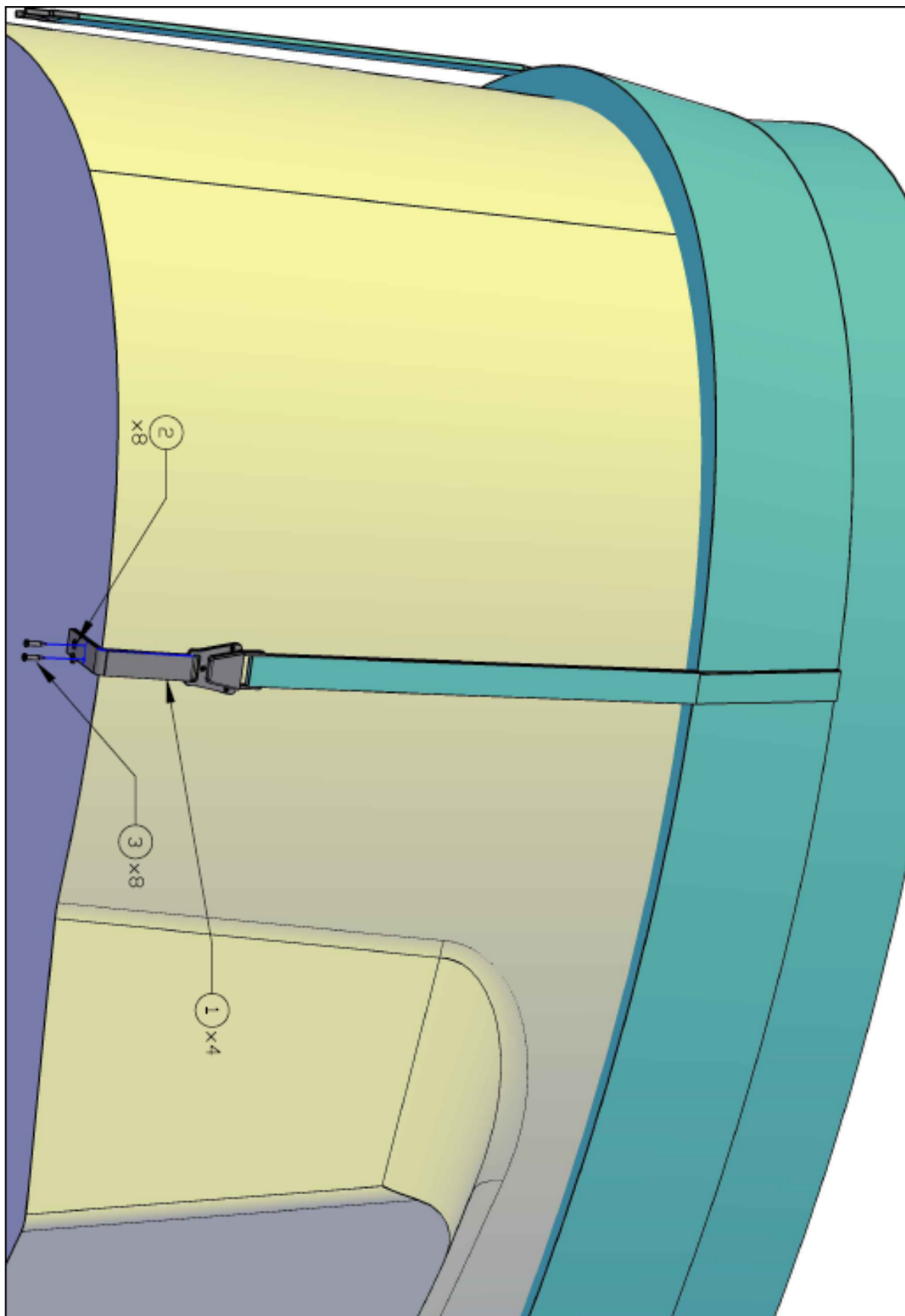
Installation Instructions: (Read in conjunction with viewing Illustration)

1. Place Cover on Spa
2. Adjust cover for correct fit
3. Lift & Support spa off the ground by at least 18 inches
4. Select one cover strap and attach the female receptacle with black webbing strap, item 1, to end of spa strap
5. Now slightly tension entire strap assembly, ensure it is straight, then pull black webbing beneath spa
6. With webbing against base of spa, locate & screw the two screws with washers in place as shown.
7. Repeat with the three remaining straps

Special Warning: To avoid spa cracking, Do not screw Item 1 directly to spa shell

Also, please ensure cover is Latched/Locked down when not in use





The TubLicious™ limited warranty extends solely to the original purchaser of self contained hot tub installed for residential use only.

2 TWO YEAR HOT TUB SHELL WARRANTY – The shell is warranted against water loss due to workmanship or manufacturing defects for two years from TubLicious' original date of purchase.

2 TWO YEAR PUMP WARRANTY – The pump is warranted due to motor failure against malfunction due to defects in material for a period of two years from TubLicious' original date of purchase.

2 TWO YEAR CONTROL WARRANTY – The control system (pack and topside keypad) is warranted against malfunction due to defects in material for a period of two years from the TubLicious' original date of purchase.

ONE YEAR CONDITIONAL WATER LOSS WARRANTY – The factory installed plumbing is warranted against water loss due to defects in material and workmanship for a period of one year, with conditional exclusions, from the TubLicious' original date of purchase. This warranty specifically covers leaks from the jet fittings, drain fittings, internal plumbing, filter canister and light lens.

WARRANTIES FOR OTHER COMPONENTS – All other components installed on the TubLicious™ hot tub are warranted against defects in material for a period of one year from the TubLicious' original date of purchase. Jet inserts are warranted against malfunction due to defects in material for a period of one year from the TubLicious' original date of purchase (Failure to maintain water chemistry and/ or neglect in cleaning the stainless steel components could escalate the chemical attack on the stainless. The following items are not included in this limited warranty but are to warranted to be free from defects in material at the time of delivery to the original consumer purchaser from the dealer: Filter cartridge, air locks, incorrect water chemistry, loose unions, pinched or misaligned gaskets, pump seals, closed water valves, closed jets, fuses and expired light bulbs.

WARRANTY PERFORMANCE – To obtain service in the event of a defect covered by this Limited Warranty, notify your TubLicious™ Dealer as soon as possible and use all reasonable means to protect the TubLicious™ from further damage. Upon proof of purchase, the dealer will correct the defect subject to the terms and conditions of this warranty. There will be no charge for parts to repair the defect if the defect is determined to be covered under the terms and conditions of this written limited warranty, although reasonable repair person travel charges and labor fees will be charged. All service fees are the responsibility of the TubLicious™ owner.



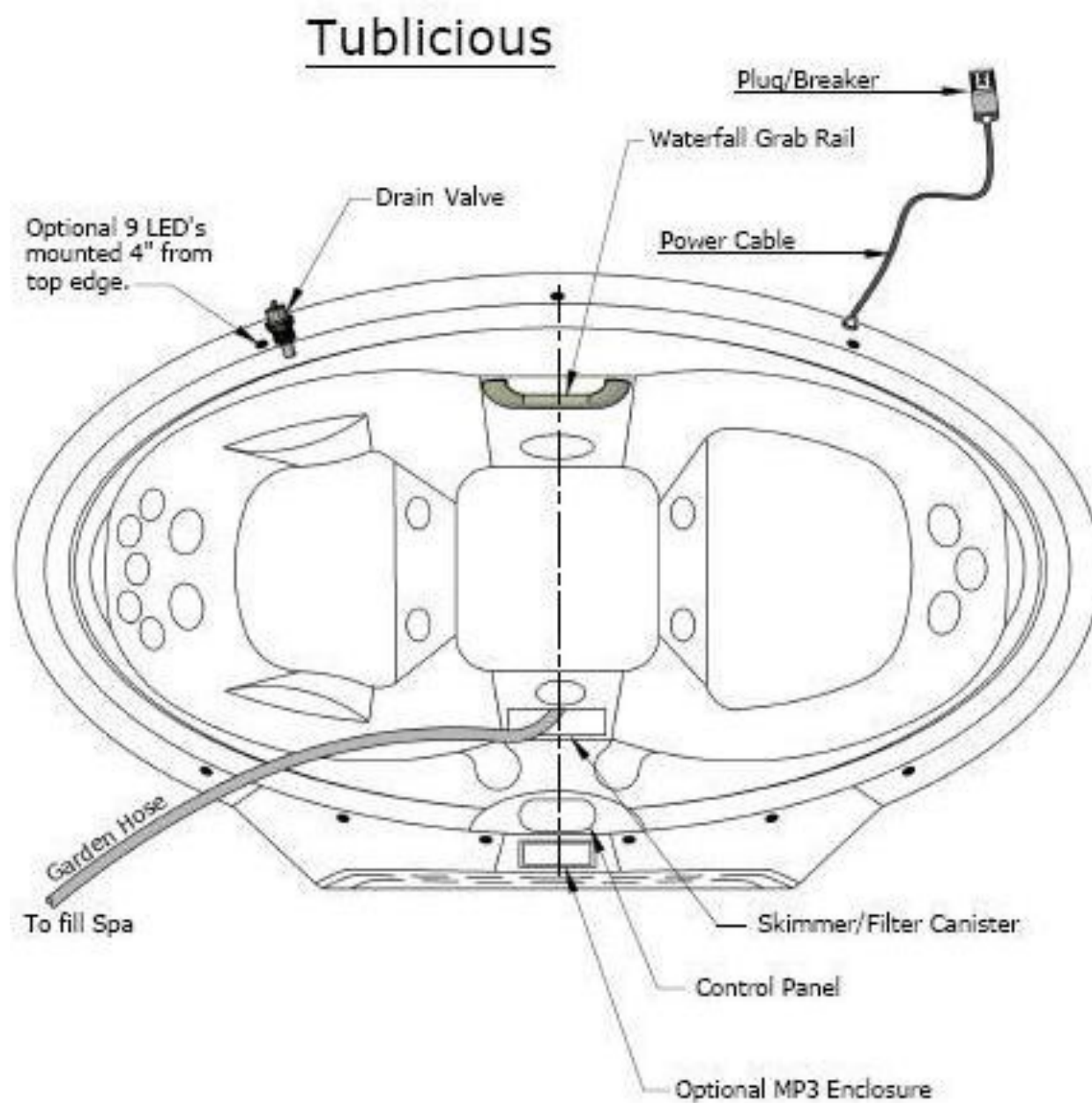
WARRANTY EXCEPTIONS - A TubLicious™ installed in a commercial application is excluded from any warranty coverage whatsoever. This limited warranty is void if TubLicious™ or its designated representative determines that the TubLicious™ has been improperly installed or improperly supported (see Owner's Guide for installation instructions), subject to alteration, misuse or abuse, or if any repairs on the TubLicious™ are attempted by anyone other than an authorized representative of TubLicious™; or if failure is caused by accident, acts of nature, acts of God, or other causes beyond the control of TubLicious™.

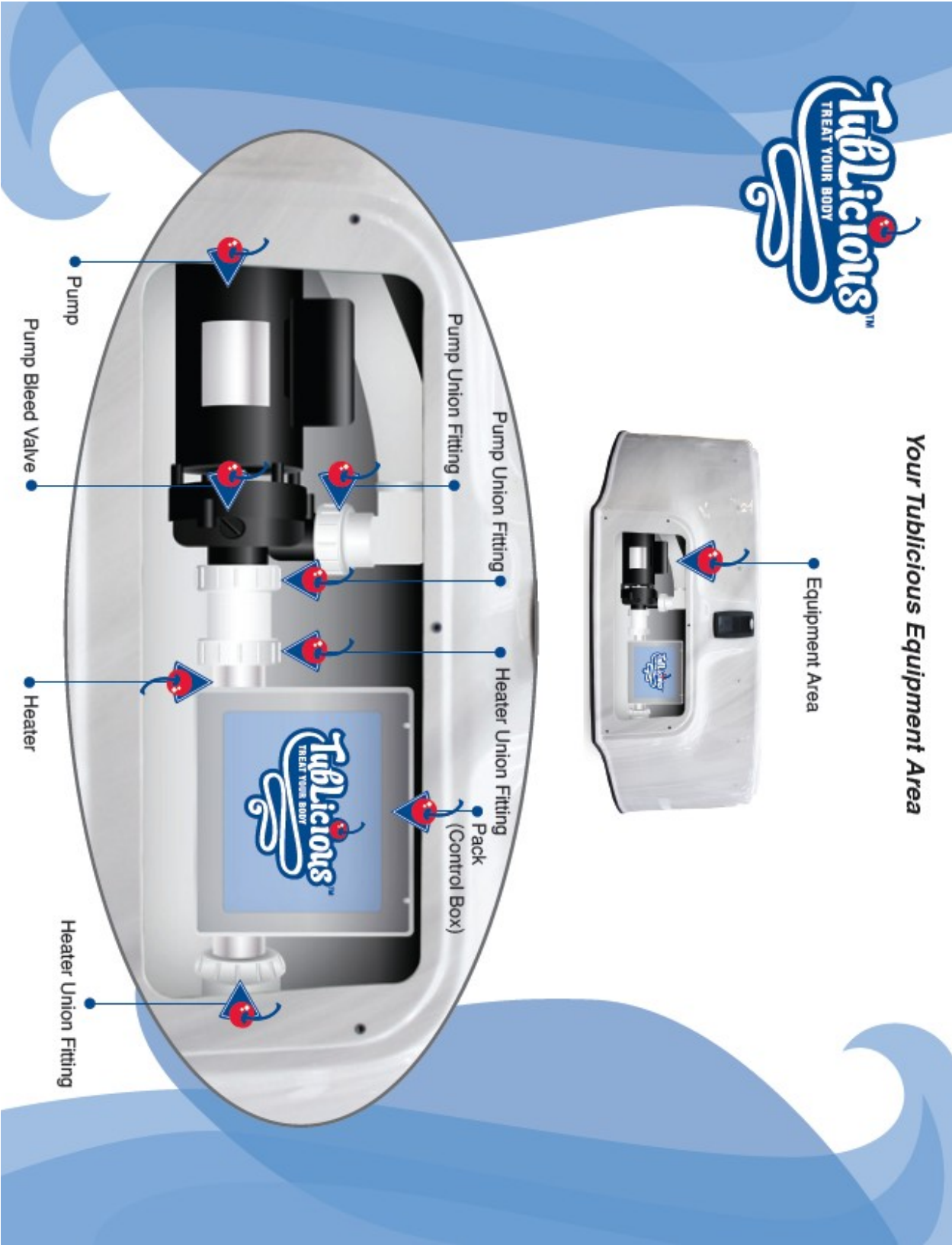
Neglect, misuse and abuse include any installation, operation, or maintenance of the hot tub other than in accordance with the instructions contained in the owner's guide provided with TubLicious™, including, but not limited to damage caused by operation outside the range of 34 degrees Fahrenheit and 116 degrees Fahrenheit or 1 degree Celsius and 47 degrees Celsius; the failure to maintain proper water chemistry and chemical balance; the use of abrasive or improper chemicals. Alterations shall include any components or plumbing change, electrical conversion, or the addition of any sanitation or water purification device or heating system which contributes to a component or unit failure or unsafe operating system.

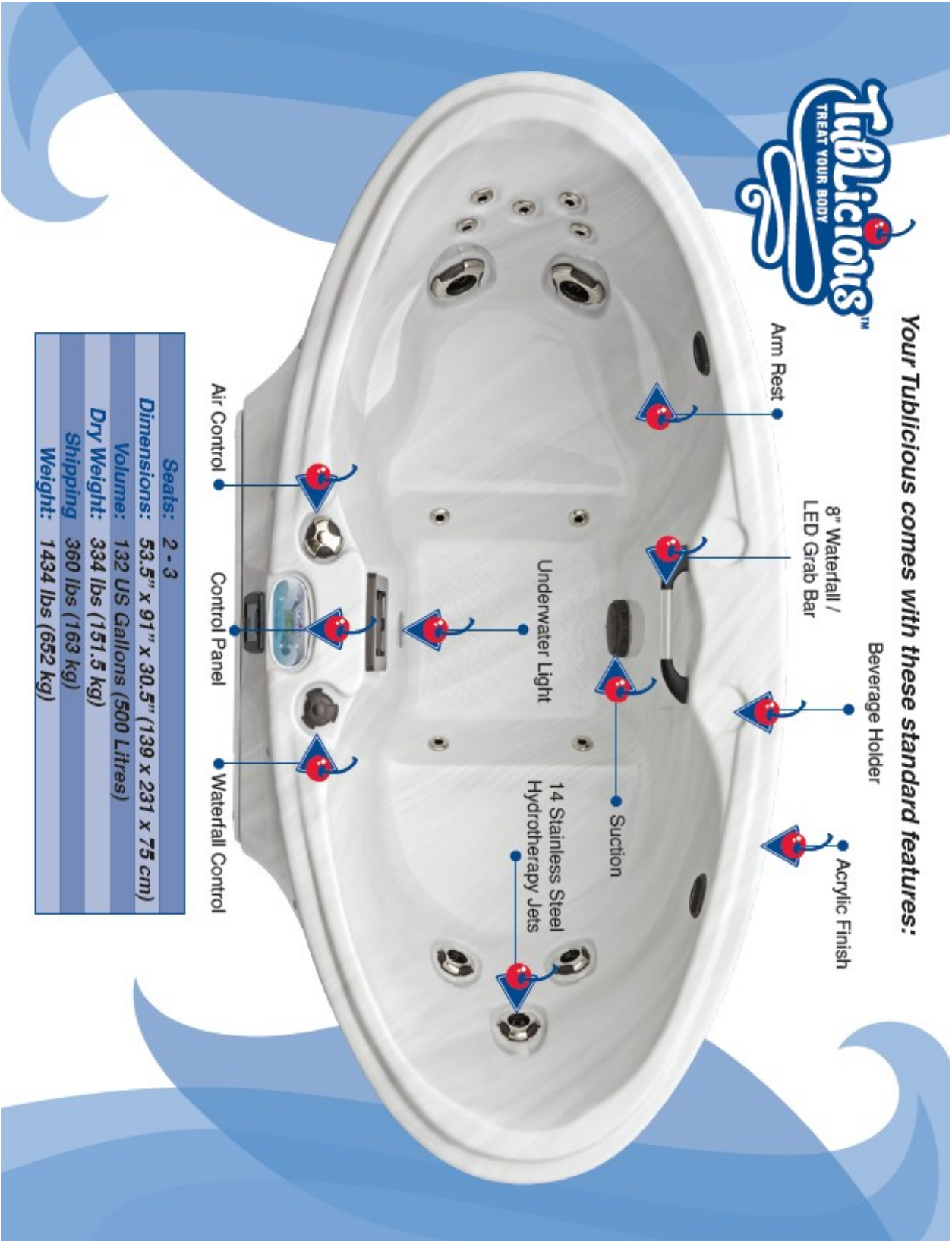
The TubLicious™ shell surface Warranty, as indicated becomes void if TubLicious™ or any of its selling or servicing agents determines that the TubLicious™ shell has been exposed to extreme cold / hot weather conditions, over exposed to direct sunlight, exposed to harsh and aggressive chemicals or cleaning agents or any other substance proved to be dangerous to the acrylic shell surface. A phenomenon referred to as "crazing" in the hot tub industry could occur to any metalessent, blush or opal acrylic. This phenomenon is strictly cosmetic and does not affect the hot tub's structural integrity. This phenomenon would not be a warrantable defect.

This Limited Warranty does not provide coverage for the TubLicious™ cover (see separate manufacturer's cover warranty), any item attached to, or installed on, including cover lifts or gazebos, or for gaining access to any component for repair or replacement. The conditional one year leak warranty is limited to leak repairs by the TubLicious™ Authorized Service Centers only. The TubLicious™ owner accepts liability for repair work performed by anyone other than a designated TubLicious™ representative.











Thank you for purchasing a TubLicious Coast Spa!

All of your spa documents from Coast Spas Manufacturing Inc. are on the CD included with the spa. TubLicious Filter Cartridge part number 817-0010 can be obtained from your TubLicious Dealer.



CLEANING AND REPLACING FILTER CARTRIDGE

Your hot tub has been designed for quick and easy maintenance. The filter cartridge should be rinsed by hose once a week and cleaned with a cartridge cleaner once a month.

A second filter cartridge is recommended and will speed up the process.

This can be purchased from your TubLicious Dealer.

TUBLICIOUS FILTER CARTRIDGE PART NUMBER 817 - 0010 (ONE PER SPA)

