



Owners Manual

Your Authorized Arcadia Spas Dealer

Note: Important Safety Instructions. Please read and follow all instructions before installing, operating, or enjoying your spa.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

LIMITED WARRANTY

DISCLAIMERS

Except as expressed herein, there shall be no other warranty or obligation, expressed or implied, oral or statutory. No agent, dealer, distributor, service company, or other party is authorized to change, modify or extend the terms of this warranty. **Arcadia Spas**, its agents, or employees shall in no event be liable for injury to any person, or for any claim for damage, however arising. All consequential expenses including loss of use, chemicals, damages, or contingent liabilities arising out of any alleged deficiencies of the spa are specifically excluded. In no event shall **Arcadia Spas** be liable for any reason or cause in excess of the amount paid for the product in question. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

Arcadia Spas Serial No.: _____

(Serial number can be found inside the cabinet on top of the control box)

Arcadia Spas Model: _____

Date Purchased: _____

Arcadia Spas Dealer: _____

Dealer Address: _____

Dealer Telephone: _____

Congratulations on the purchase of your new spa from Arcadia Spas!

You've just made a wonderful investment toward your own general health and well being. We are certain that you will enjoy this spa for many years to come, experiencing the marvels of hydrotherapy. But before we move on to the installation, there are a few things you should know about your spa.

First you should appreciate the nature of the spa's subsystems. Having respect for the spa as a complex machine will make your ownership of it that much more rewarding. For example, it will be important that you address periodic maintenance needs, such as monitoring the water chemistry and cleaning the filter. Each of these maintenance suggestions will be addressed in this manual. We ask that you please read it in its entirety.

Again, thank you for choosing from Arcadia Spas. We are glad that you have chosen to join many other satisfied Arcadia Spas customers. Enjoy!

SAVE THESE INSTRUCTIONS

This Owner's Manual applies to the following models

- OASIS
- PARADISE
- CRESCENT
- TRANQUILITY
- PLACIDITY
- FIESTA
- PINNACLE
- MERIDIAN
- REGALE
- SUMMIT
- SIERRA
- HARMONY
- ATLANTIS
- BLISS
- EDEN
- NIRVANA
- PRESTIGE

LIMITED WARRANTY

WARRANTY COVERAGE

Spa surface repairs will be made to function satisfactorily. Non-defective replacement parts required to perform or complete warranty repairs will not be covered under the terms of this warranty. In the absence of a local authorized **Arcadia Spas** Dealer, to obtain warranty service, either email to: sales.dep@a-techspas.com within 7 days of the time the problem becomes apparent. Correspondence must be accompanied by original customer purchase receipt and delivery receipt. **Arcadia Spas** MUST preauthorize the return of all defective spas and parts.

Freight charges may be assessed if the entire spa has to be returned to an authorized **Arcadia Spas** Representative for repair. The customer will bear all freight costs for parts or spas returned to an authorized **Arcadia Spas** Representative for repairs that prove to be non-warranted problems.

Shell Warranty: **Arcadia Spas** will repair or replace, at its discretion, any spa found defective under the terms of this warranty. No charge will be made for parts, provided the hot tub is returned at owner's expense, to an Authorized **Arcadia Spas Dealer**. **Arcadia Spas** is not liable for any freight, shipping, removal and/or installation costs.

Plumbing and Equipment Warranties: **Arcadia Spas** will repair or replace, at its discretion, any internal plumbing or equipment component found defective under the terms of this warranty. No charge for parts will be made for the first year, provided the component is returned, at owner's expense, to an authorized **Arcadia Spas** Representative. **Arcadia Spas** is not liable for any freight, shipping, removal or installation.

Other Warranties: The non-wood cabinet is warranted against defects in materials or workmanship for two (2) years from date of original delivery.

Factory installed LED lights are warranted for one (1) year from the date of original delivery. Labor is not included.

The customer is responsible for regular maintenance for all wooden products.

Safety Instructions

7. Leave the spa immediately if nausea, dizziness or headaches occur. Immediately cool the body by taking a cool shower or the application of cold towels or ice packs. Seek medical attention if the symptoms persist.
8. Do not use the spa alone.
9. It is recommended that people shower before and after using the spa.
10. Always enter and exit the spa slowly and cautiously. Wet surfaces can be slippery.
11. Always use unbreakable containers around the spa. Never use glass.
12. Never walk, climb, play or jump on the insulated cover of your spa. Never use the spa unless the cover has been completely removed. Do not rely on the cover as a safety cover for children. Children must be supervised when they are in or around the spa.
13. It is recommended that a childproof barrier such as an adequate fence with a self-closing and self-latching gate be fitted. Please check if such barriers are mandatory under your local laws or state regulations, and comply with all such requirements.

WARNING: All electrical connections must be completed by a Licensed Electrical Contractor and in accordance to any local and national codes in effect at the time of installation.

Improper or unauthorized electrical connections may cause the equipment module to operate improperly, creating the potential for an electrical hazard and may void the warranty.

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 includes drowsiness, lethargy and an increase in the internal temperature of the body.

The effects of hyperthermia include:

1. Failure to perceive heat
2. Failure to recognize the need to exit the spa
3. Physical inability to exit the spa
4. Fetal damage in pregnant women; and
5. Unconsciousness, which may lead to drowning

Please follow all safety instructions to reduce the risk of hyperthermia

WATER BALANCE

Water Chemistry is an important part of protecting and enjoying your spa. For specific questions about water maintenance, consult your dealer. Many Arcadia Spas dealer offer computerized water testing to help you with any problems that may occur. Additionally, we recommend you have your water tested periodically by your dealer, as your dealer's more sophisticated testing methods and greater array of tests may help you foresee a condition which may not be detectable with your test kit.

Ozone Purification System: Arcadia Spas' ozone purification system is an excellent sanitizing method, aimed at reducing the amount of chemicals needed to treat the spa's water. It is an ozone-based purifier that eliminates the majority of microorganisms in the water.

General Water Chemistry: The chemistry of spa water changes rapidly. For example, five people in a 500 gallon / 1700 liter spa is equivalent to about 250 people in an average size 22,000 gallon / 80,000 liter pool. High water temperatures, aeration of the water and body chemistry of spa users can significantly affect the water. High water temperatures provide an ideal environment for algae and bacteria growth.

Due to rapid changes in the water chemistry, spa water should be tested at least weekly with a test kit available from your Arcadia Spas dealer.

Sanitizers: Bromine and chlorine are the most widely used disinfectants for maintaining properly balanced water. Bromine has a less intrusive odor and greater warm-water resiliency. Both chlorine and bromine, as well as other sanitation options are available from your dealer. Follow the instructions on the sanitizer package for proper amounts.

CAUTION! Never place sanitizers directly on the spa shell as it will damage the surface.

Consult your dealer for the proper amounts required to disinfect your spa's water. Remember, spas using an ozone purification system will require up to 60% less chlorine or bromine.

pH Balance: pH (potential Hydrogen) is a measure of your water's acidity or alkalinity (basicity) The pH scale runs from 0-14. pH 6.9 is considered acidic. pH 7 is considered neutral. pH 7.1-14 are considered alkaline (basic). The ideal pH for spa water is pH 7.2-7.8, or slightly alkaline. Water with a pH above 7.8 can produce scale, become excessively cloudy and reduce the effectiveness of sanitizers. Chemicals for maintaining pH are available from your dealer.

Total Alkalinity: Total alkalinity refers to the amount of all alkaline salts in the water. Measuring total alkalinity means measuring the water's ability to buffer itself against changes in pH. Thus, pH and total alkalinity are closely related. Total alkalinity of spa water should be maintained within the range of 80-120 parts per million (ppm). If you experience difficulty maintaining stable pH, it may be attributed to improper total alkalinity.

Required Water Replacement: You should replace your spa's water every 3 to 6 months. The frequency depends on a number of variables including frequency of use, number of users, and attention paid to water quality maintenance. You will know it is time for a change when you cannot control sudsing and/or you can no longer get the normal feel or sparkle to the water, even though the key water balance measurements are all within the recommended parameters.

SPA PLACEMENT

Here are some things that you will need to consider when determining placement of your new spa.

SAFETY FIRST

Do not place your spa within 10 feet / 3 meters of overhead power lines.

Make sure the spa is positioned so that the access to the equipment compartment and all side panels will not be blocked. Be certain that your installation will meet all relevant local, state, and national safety codes and requirements

CONSIDER HOW YOU WILL USE YOUR SPA

How you intend to use your spa will help you determine where you should position it. For example, will you use your spa for recreational or therapeutic purposes? If your spa is mainly used for family recreation, be sure to leave plenty of room around it for activity. If your spa is used for relaxation and therapy, you'll probably want to create a specific mood around it.

PLAN FOR YOUR ENVIRONMENT

If you live in a region where it is cold or rains frequently, place the spa near a house entry. If you choose to locate your spa indoors, we recommend that the area be properly ventilated.

CONSIDER YOUR PRIVACY

In a cold-weather climate, bare trees won't provide much privacy. Think of your spa's surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors as well when you plan the location of your spa.

KEEP YOUR SPA CLEAN

Prevent dirt and contaminants from entering into your spa by placing a foot mat at the spa's entrance where people can clean their feet before entering your spa. You may also consider keeping a small water-filled basin nearby for bathers to rinse their feet before entering your spa.

PERMANENT LOCATION

Consider and prepare for the unlikely event of rapid spa drainage. If placement of the spa is permanent, you may wish to provide access to adequate drainage to accommodate draining if necessary. Always leave sufficient room around the spa for easy access in case repairs are necessary.

PREPARING A GOOD FOUNDATION

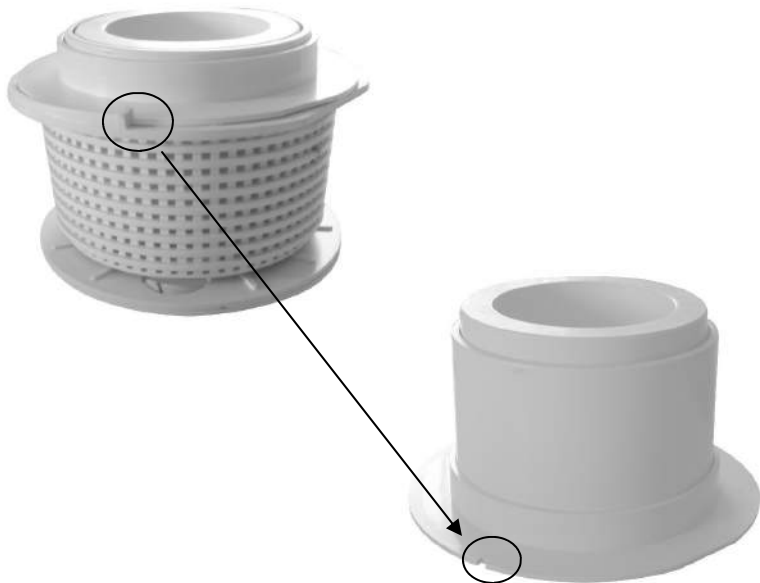
Your spa needs a solid and level foundation. The area that it sits on must be able to support the weight of the spa, with water and the occupants who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress that could DAMAGE YOUR SPA SHELL AND FINISH. Place the spa on an elevated foundation (preferably a 3 inch / 75mm to 4 inch / 100 mm concrete slab). Pavers, gravel, brick, sand, timber or dirt foundations are generally not adequate to support the spa. If you are installing the spa indoors, pay close attention to the flooring beneath it.

SINGLE FILTER MAINTENANCE

- Always clean the filter using a filter degreaser to remove mineral and oil build-up. Simply soak the filter in the degreaser (according to the package directions), then place the filter on a clean surface and spray until clean using a garden hose. It may be necessary to rotate the filter while spraying to remove any debris lodged between the filter pleats. Reinsert filter cartridge.



- To return basket and weir, insert and rotate clockwise to lock into position. Then, turn the spa's power back on.



ELECTRICAL INSTALLATION (INTERNATIONAL)

WARNING: All electrical connections must be performed by an experienced, licensed electrician in accordance with all applicable local electrical codes. All electrical connections must be made in accordance with the wiring information in this manual. Improper electrical connections not in accordance with these instructions will void both the independent testing agency listing and the manufacturer's warranty.

All Arcadia Spas are tested for the following:

230 VAC, 50 Hz (International)

Output Power:

Heater: 3KW

Blower: 400W

Pump: 2-3HP

Underwater LED Light: 20W

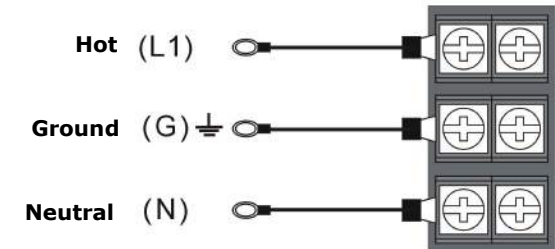
Circulation Pump: 400W

Ozone Generator: 20W

1 pump system : 28A

2 pump system : 38A

3 pump system : 48A



We recommend an electrical subpanel containing appropriate RCD breaker is used to supply power and protect the spa. The grounding conductor must be at least the same gauge as the line conductors, but not less than 6 mm². A minimum 6 mm² solid copper bond wire is also required. Mount the subpanel at least 1.5m away from the spa, in accordance with all local codes. A qualified electrician must install the electrical circuit. *The spa can be wired with one 32 amp 320 volt single circuit, two 16 amp circuits, or three 16 amp circuits (three phase).*

- This hot tub must be permanently connected (hard-wired) to the power supply. No extension cords or plug-in connections are to be used in conjunction with the operation of this hot tub.
- Power supplied to this hot tub must be a dedicated circuit with no other appliances sharing the power provided by the circuit.
- The appliance should be supplied through a Residual Current Device (RDC) with a rated tripping current not exceeding 30mA
- All wiring must be copper to ensure proper connection. Do not use aluminum wire.

GENERAL MAINTENANCE

SPA PILLOWS MAINTENANCE

The spa pillows will provide years of comfort if treated with care. They have been positioned above the water level to minimize the bleaching effects of chlorinated water and other spa water chemicals. To extend their life, whenever the spa shell is being cleaned, the spa pillows should be removed and cleaned. Body oils can be removed with a mild soap and water solution. ALWAYS rinse off the spa pillows thoroughly to remove any soap residue. If the spa is not going to be used for a long period of time, or when the spa water is being super-chlorinated, the spa pillows should be removed until the next use of the spa.

SPA SHELL

Your spa has a smooth acrylic or ABS textured shell. Stains and dirt generally will not adhere to your spa's surface. A soft rag should easily remove most dirt. We recommend using a "cheesecloth" rag, or other soft rag, to clean the entire shell surface with **Water Line Cleaner** or a similar product from your spa dealer. You may also use **pH/Alkalinity Increaser** or a 50/50 solution of denatured **alcohol and water**. Be sure to thoroughly rinse the shell after cleaning. To restore the luster of the shell after cleaning, you can use an acrylic surface polish or a similar product from your spa dealer. Always thoroughly rinse off any spa shell cleaning agent with water.

SERVICE NOTE: Iron and copper in the water can stain the spa shell if allowed to go unchecked. Your Arcadia Spa dealer can recommend a stain and scale inhibitor to use if your spa water has a high concentration of dissolved minerals.

DO NOT use any cleaning products containing abrasives or solvents since they may damage the shell surface. **NEVER USE HARSH CHEMICALS!** Damage to the shell by the use of harsh chemicals is not covered under the warranty.

SIDE PANEL

The Arcadia Spas side panels are unaffected by most corrosive substances, and will not absorb moisture. To maintain the original finish, clean with soap and water. No painting is required.

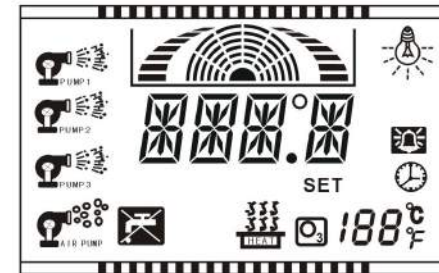
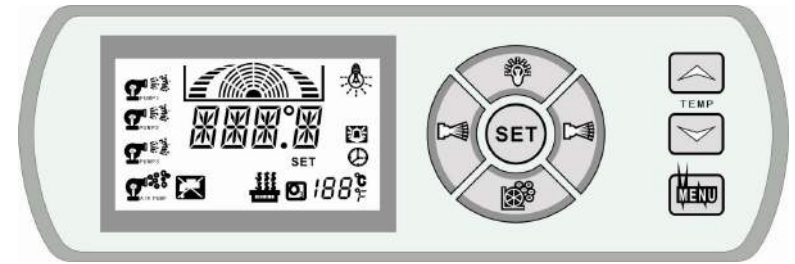
SPA COVER

The vinyl spa cover is an attractive, durable foam insulation product. Monthly cleaning and conditioning are recommended to maintain its beauty.

To clean and condition the vinyl cover:

1. Remove the cover from the spa and gently lean it against a wall or fence.
2. With a garden hose, spray the cover to loosen and rinse away dirt or debris.
3. Using a large sponge and/or a soft bristle brush, and using a very mild soap solution (1 teaspoon dishwashing liquid with 1 gallon/4 liters of water) or baking soda (sodium bicarbonate), scrub the vinyl top in a circular motion. Do not let the vinyl dry with a soap film on it; rinse clean immediately.
4. Scrub the cover's perimeter and side flaps. Rinse clean with water and dry.

NORTHSTAR CONTROL PANEL INSTRUCTIONS



Button	LCD Display	Basic Button Function
		There are two Jet Pump buttons. Press the button once and the corresponding Jet Pump icon will appear on the adjacent LCD screen while the pump is on. A second press will turn off the Jet Pump and the icon will disappear from the LCD screen.
		Spa Light Button: Press button to turn the light on, a second press will turn the light off. The spa light icon will appear on the control panel while the light is on. The LED light will cycle through a color sequence. Each color duration is approximately 20 seconds.
		Blower Button: Press button to turn the blower on, a second press will turn the blower off. The Air Blower is only available as a factory installed option.
		Temperature Set Keys: The Control Panel displays the actual water temperature in the center of the LCD Screen. It will also show the temperature that you have selected as the set temperature in the bottom right corner of the LCD Screen. Press the button to increase the desired set temperature. Press the button to decrease the temperature. The temperature can be adjusted in 1°F/1°C increments from 50°F/10°C to 104°F/40°C. The new desired set temperature will be displayed in the bottom right hand corner of the LCD. When the temperature drops to 2° below the set temperature, the heater will be activated until the temperature is 1° above the set temperature. The Heater On icon will appear when the heater activated.

NORTHSTAR II CONTROL PANEL INSTRUCTIONS

Menu Selection



Use and to toggle between 2 to 10 minutes of cleaning time. In this mode, the three Jet pumps, circulation pump and ozone will run in succession. Minutes will show in lower right corner.



Use and to choose what time of the day the sleep mode will turn on. For example: 21 means the sleep mode will turn on at 9:00pm.



Use and to choose what time of the day the sleep mode will turn off. For example: 07 means the sleep mode will turn itself off at 7:00am



In this mode, the circulation pump and all Jet pumps will run for 2 minutes every hour to prevent freezing. Use and to toggle between on and off. Press to confirm selection. If the system detects a water temperature drop to 41°F/5°C, the circulation pump and heater will automatically turn on until water temperature rise to 46.4°F/8°C or higher.



This setting is to manually adjust the temperature difference if the temperature shown on LCD display is different than actual temperature. Use and to adjust for each F°/C° difference.

Press to confirm selection.



To return to factory setting. Press and to toggle between on and off. Press to confirm selection.



Press to confirm exiting the menu programming.

Control Panel Lock: The Control Panel can be locked for child proof and security purposes. Press and hold button for 3 seconds and wait for **LOCK** to appear on the LCD screen. Use the same procedure to unlock.

LCD Power Save: If the control panel is not used for more than 10 minutes, the LCD backlight will go into power save mode and the display will dim. The LCD screen will turn on with the touch of any button.

AUTO SAFETY FEATURE- FREEZE PROTECTION MODE: If the system ever detects a water temperature drop to 41°F/5°C, the circulation pump and heater will automatically turn on until water temperature rise to 46.4°F/8°C or higher. This safety feature will override any other programming mode to prevent freezing.

NORTHSTAR CONTROL PANEL INSTRUCTIONS

Control Panel Lock: The Control Panel can be locked for child proof and security purposes. Press and hold **SET** button for 3 seconds and wait for **LOCK** to appear on the LCD screen. Use the same procedure to unlock.

LCD Power Save: If the control panel is not used for more than 10 minutes, the LCD backlight will go into power save mode and the display will dim. The LCD screen will turn on with the touch of any button.

AUTO SAFETY FEATURE- FREEZE PROTECTION MODE: -If the system ever detects a water temperature drop to 41°F/5°C, the circulation pump and heater will automatically turn on until water temperature rise to 46.4°F/8°C or higher. This safety feature will override any other programming mode to prevent freezing.

DIAGNOSTIC AND WARNING MESSAGES

LCD Error Display	Symptom	AutoCorrective Action
	Low Water Level	Pumps and Heater will be turned off. Add water until it is above the minimum water level line.
& HEAT	Water temperature above 114°F / 45°C	Heater will turn off
& ICE	Water temperature falls below 41°F / 5°C	Freeze protection mode will be enabled
& LD F	Load Failure	Power to Heater will be shut off. Please check electrical.
& LEAK	System detects a faulty wiring	Power output will be turned off.