



AQUATIC TRAINING VESSELS OWNER'S MANUAL

WELCOME TO THE AQUATIC TRAINING LIFESTYLE!

We sincerely hope your swim spa life is a pleasant experience. But, if by chance an issue should arise, contact your authorized dealer. Or contact Marquis Corp., herein after referred to as "Manufacturer" at any of the following:

Email: service@marquiscorp.com

Web: **www.ATVswimspas.com**

596 Hoffman Road

Independence, OR 97351, USA

This manual is provided to enhance your enjoyment of your ATV and to prevent non-warranty situations. It is your sole responsibility to read, understand and comply with the instructions in the owner's manual. Please save your original sales receipt for reference in case of a future warranty claim. Failure to use, maintain or install the swim spa in compliance with this owner's manual could result in loss of warranty coverage.

SERIAL NUMBER LOCATION

You will find the serial number on the tag in the equipment area.

PLEASE FILL OUT AND KEEP FOR FUTURE REFERENCE

Name of Purchaser _____

Date of Purchase _____

Address _____

City _____ State _____ Zip Code _____

Telephone _____

ATV Model/Color _____

ATV Serial # _____

Pack Serial # _____

Dealer's Name _____

Dealer's Address _____

City _____ State _____ Zip Code _____

Telephone _____

Every effort has been made to ensure the accuracy of this manual. However, the Manufacturer reserves the right to improve its product without notice. This could create a minor variation between this manual and the actual product you receive. We apologize for any inconvenience this may cause.



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SAFETY INSTRUCTIONS

The following instructions contain important safety information. We strongly encourage you to read and apply them.

IMPORTANT SAFETY INSTRUCTIONS

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

1. **READ AND FOLLOW ALL INSTRUCTIONS**
2. **WARNING:** To reduce the risk of injury, do not permit children to use this product unless closely supervised at all times.
3. **DANGER: RISK OF CHILD DROWNING.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the vessel unless they are supervised at all times.
DANGER: No climbing or walking on the top lip of the ATV. Shallow water: no diving or jumping. Diving or jumping may cause death, paralysis or permanent injury.
4. **DANGER: RISK OF INJURY.** Connect only to a grounded source. A ground terminal (pressure wire connector) is provided on the surface of the control box inside the equipment compartment. This connector should be bonded with a minimum No. 8 AWG (8.42mm²) (No. 6 AWG in Canada) solid copper wire between this unit and any metal ladders, metal water pipes, metal enclosures of electrical equipment, conduit, or metal equipment within five feet (1.52m) of the vessel. If the vessel is located on a reinforced concrete pad, the reinforcing steel should also be bonded to the ground terminal.

240 VOLT, PERMANENTLY INSTALLED MODELS

5. A ground terminal is provided on the control box. To reduce the risk of electric shock, connect this terminal to the grounding terminal of your electrical service or supply panel with a continuous green, insulated copper wire. The wire must be equivalent in size to the circuit conductors supplying the equipment. In addition, a bonding terminal (pressure wire connector) is provided on the outside of the control box for bonding to local ground points. To reduce the risk of electric shock, this connector should be bonded with a minimum No. 8 AWG (8.42mm²) (No. 6 AWG in Canada) solid copper wire to any metal ladders, water pipes, or other metal within five feet (1.52m) of the vessel to comply with local requirements. All electrical should follow local codes.



SAFETY INSTRUCTIONS

6. Your vessel requires the use of Ground Fault Circuit Interrupter (GFCI).
 - Before each use of the vessel and with the unit operating press the Test button on each breaker. The switch should click over to the "Trip" position. Wait thirty seconds and reset each GFCI breaker by switching it completely off and then completely on. The switch should then stay on. If either of the interrupters does not perform in this manner, it is an indication of an electrical malfunction and the possibility of an electric shock. Disconnect the power until the fault has been identified and corrected.

ALL ATV MODELS

7. **DANGER: RISK OF ELECTRIC SHOCK.** Install the vessel at least five feet (1.52m) away from metal surfaces. Each metal surface must be permanently connected to a minimum minimum No. 8 AWG (8.42mm²) (No. 6 AWG in Canada) solid copper conductor attached to the wire bonding connector on the terminal box provided for this purpose.
8. **DANGER:** risk of electric shock. Do not permit any appliance, such as a light, telephone, radio, or television, etc. within five feet (1.52m) of the vessel or vessel.
9. **WARNING:** To reduce the risk of injury:
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 extended use (exceeding 10 minutes) and for young children. When used for prolonged exercise periods, lower water temperatures of 85°F (29°C) to 88°F (31°C) are safe ranges for healthy adults. DO NOT perform exercise routines in elevated water temperatures. High water temperatures and exercise can result in hyperthermia.
 - Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit vessel water temperatures to 100°F (38°C) when relaxing or 85°F (29°C) when exercising. Exercising in the vessel while pregnant requires approval from your physician. If you have preexisting injuries, physician approval needs to be granted before using the various training aids in the vessel.
 - Before entering a vessel, the user should measure the water temperature with an accurate, waterproof, fever thermometer since the tolerance of temperature-regulating devices may vary as much as +/- 5°F (3°C).
 - The use of drugs, alcohol, or medication before or during vessel use may lead to unconsciousness with the possibility of drowning.
 - Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using the vessel.



SAFETY INSTRUCTIONS

- Persons using medications should consult a physician before using the vessel since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.
 - The use of drugs, alcohol, or medication before or during vessel use may lead to unconsciousness with the possibility of drowning.
 - Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using the vessel.
10. **DANGER: TO REDUCE THE RISK OF INJURY TO PERSONS.** Do not remove the suction fittings.
 11. **DANGER: RISK OF INJURY:** Never operate a vessel if the suction guard(s) is broken or missing. Never replace a suction guard with one rated less than the flow rate marked on the original suction guard. The suction guard(s) in the vessel are sized to match the specific water flow created by the pump. Should the need arise to replace the suction guard(s) or the pump, be sure that the flow rates are compatible. DO NOT stand on the suction guards at any time as it could result in damage to the covers and present an unsafe situation.
 12. **DANGER:** Children are especially sensitive to hot water. At no time should children have unsupervised access to the vessel. Children must not be allowed to climb onto the vessel cover. All ATV vessels are equipped with a locking cover that meets the ASTM F1346-91 Standard for Safety Covers. Always lock the child resistant locks after using the vessel for your children's safety.

13. **SAVE THESE INSTRUCTIONS.**

WARNING: Do not permit electric appliances (such as a light, telephone, radio, or television) within five feet (1.52m) of the vessel.

WARNING: Children should not use the vessel without adult supervision.

WARNING: Do not use the vessel unless all suction guard(s) are installed to prevent body and hair entrapment.

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

WARNING: People using medications and/or having an adverse medical history should consult a physician before using the vessel.

WARNING: The use of alcohol, drugs, and medication can greatly increase the risk of fatal hyperthermia.

WARNING: Before entering the vessel measure the water temperature with an accurate thermometer.

WARNING: Water temperature in excess of 104°F (40°C) or 88°F (31°C) if exercising may be injurious to your health.

WARNING: No climbing or walking on the top lip of the vessel. Shallow water: no diving or jumping. Diving or jumping may cause death, paralysis or permanent injury.

WARNING: Prolonged immersion in the vessel may be injurious to your health.

WARNING: People with infectious diseases should not use the vessel.



SAFETY INSTRUCTIONS

WARNING: Pregnant or possibly pregnant women should consult a physician before using the vessel.

WARNING: To avoid injury, exercise care when entering and exiting the vessel.

WARNING: MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

PERSONAL SAFETY

Prolonged immersion in hot water can result in **HYPERTHERMIA**, a dangerous condition which occurs when the internal temperature of the body reaches a level above normal (98.6°F, 37°C). The symptoms of hyperthermia include dizziness, fainting, drowsiness, lethargy, and a body temperature above 98.6°F (37°C). The physical effects of hyperthermia include unawareness of impending hazard, failure to perceive heat, failure to recognize the need to exit the vessel, physical inability to exit the vessel, fetal damage in pregnant women, and unconsciousness resulting in a danger of drowning.

Other booklets about vessel safety are: "Children Aren't Waterproof," "Pool and Spa Emergency Procedures For Infants and Children," "Layers of Protection" and "The Sensible Way to Enjoy Your Spa" published by Association of Pool & Spa Professionals.

WARNING: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in the vessel.

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



SAFETY INSTRUCTIONS

PERSONAL SAFETY DOs:

- Be sure your vessel is connected to the power supply correctly – only use a licensed electrical contractor.
- Shut off power supply before draining the vessel or servicing the electrical components.
- Always test the water temperature with an accurate thermometer before entering the vessel to be sure that it's at a safe temperature.
- Do not use the vessel if water temperature is outside of set temperature. Remember that wet surfaces can be very slippery. Take care when entering and exiting the vessel.
- Lock the DuraCover® when the vessel is not in use, whether it is empty or full of water.
- Keep the water clean and sanitized with correct chemical care.
- Turn on the jets when adding ANY chemicals to the vessel water.
- Clean the filter cartridge(s) monthly to remove debris and mineral buildup which affects the performance of the hydrotherapy jets, limits the flow, or trips the high limit thermostat which will turn off the entire vessel.

PERSONAL SAFETY DO NOTs:

- Don't use the vessel with the equipment compartment door removed.
- Don't use the vessel for more than 10 minutes of time at water temperatures in excess of 102°F (39°C).
DANGER: No climbing or walking on the top lip of the ATV. Shallow water: no diving or jumping. Diving or jumping may cause death, paralysis or permanent injury.
- Don't allow the jet pump(s) to operate for an extended period of time with the cover in place. Extended pump operation causes a slow heat buildup due to water friction. The spa equipment controls are equipped with a built-in safety timer that automatically shuts off the jet pump(s) after 15 minutes of continuous operation should it have been left on inadvertently.
- Don't operate the vessel at any time with the filter cartridges removed.
- Don't lift or drag the cover by using the tie-down straps; always lift and carry by using the external handles.
- Don't store chemicals in the vessel's equipment compartment.
- Don't hesitate to call your authorized dealer with any questions or maintenance concerns.



INSTALLATION INSTRUCTIONS

LOCATION

For your vessel to function properly and safely, it must be located on a hard, flat, stable, and level surface on a 6" to 8" (152mm to 203mm) thick concrete pad that can support 200lbs. per square inch. Inground vessels require special installation techniques and should be planned in conjunction with your authorized dealer. Improper installation can result in structural damage to the vessel and the voiding of your vessel warranty. Items to discuss with your dealer include: Local construction codes, electrical service requirements, serviceability of equipment present underground obstructions such as gas, water, and telephone lines, safety measures such as fences and locks, and visibility of the vessel installation from the home, street, and neighbors.

Do not shim your vessel. If your pad is not level you must pour a top cap: contact a professional.

- Allow for sufficient water drainage around the vessel to help preserve the equipment and support structure. This includes indoor installations.
- A filled vessel can weigh up to 25,000 LB (11 340 KG) and the location should support the weight of the filled vessel.
- The vessel contains equipment on both ends. Your vessel **MUST** be installed to permit access for servicing the equipment above and/or below any decks or floors. Access is essential and must allow adequate room for service. To facilitate repairs, Manufacturer or its agent may require access to vessel equipment. It is your responsibility to provide unencumbered access. See vessel diagrams for location of power supply.
- Leave access to the circuit breakers in the sub panel.
- Be sure the vessel is level and in the final position **BEFORE** filling with water. Check for power cords, tools, and hoses that may be caught underneath the vessel. Do not apply power to the vessel before it is completely filled with water. Damage to the pumps, heater and sensors may result.
- **IMPORTANT: DO NOT LET AN EMPTY VESSEL REMAIN EXPOSED TO DIRECT SUNLIGHT.**

Vessel surface temperatures can reach in excess of 180°F (82°C) if left exposed to the sun. Significant damage can occur if this is allowed to happen, including warping and blistering of the surface. Damage, that occurs as a result of this exposure, is not covered under the warranty.

- **CAUTION:** Never try to move a vessel that has not been fully drained. To do so could result in damage to the spa and physical injury to the mover. Cracks in the vessel surface, exterior siding or base due to improper transport or support of the vessel are not covered under the warranty.



OUTDOOR & PATIO INSTALLATION

OUTDOOR INSTALLATION

To install the vessel outdoors, a flat level concrete reinforced pad at a minimum thickness of 6" - 8" or 152mm - 203mm is required.

Placement of the vessel on pavers, gravel, or dirt is not approved and will void the warranty. The reinforcing material should be attached to a #8 AWG bonding wire per national and local electrical code (#6 AWG in Canada).

INDOOR INSTALLATION

There are special requirements if you place your vessel indoors. A flat level concrete reinforced pad at a minimum thickness of 6" - 8" or 152mm - 203mm is required. Flooring material must provide adequate traction when wet. Proper drainage is essential to prevent water puddling. Proper ventilation to the area is required. The addition of a ventilation system is recommended. Please see your contractor for details.



INSTALLATION INSTRUCTIONS



Shut-off valve in open position

SHUT-OFF VALVES

Your vessel is equipped with shut-off valves (see EQUIPMENT DIAGRAM) that shut off the water flow to the equipment system for authorized dealer service. At times, a new vessel or one that has recently been serviced, may have the shut-off valves partially closed which can restrict the water flow and hinder jet performance. Be sure the valves are fully open.

FREEZE PROTECTION

When a freeze condition is detected (which occurs when the temperature in the heater housing drops to 55°F, (13°C) the jet pumps are automatically activated. In areas with extremely cold winter conditions, your vessel should be fine as long as it is left running at normal operating temperatures. For extra protection see your dealer for an optional freeze sensor. If you plan to turn the vessel off, follow the instructions in this manual (see SUSPENDED USE OR WINTERIZING YOUR VESSEL).

OVERHEATING

In the case of extended hot weather, the spa water temperature may reach and maintain 104°F to 106°F (40°C to 41°C) or higher. This is due to the ambient temperature and the full foam insulation in the spa cabinet. You have the option of changing when or how long the pumps will run. See VESSEL CONTROL OPERATION for available options.

FILTER CARTRIDGES

Your vessel is equipped with the ConstantClean™ Filtration system. It features two long filters and Microban® with Remay® filtration media.

NOTE: It is very important that the components of these filtration systems be installed properly in the proper part of the vessel.

1. Hold the Vortex filter cartridge and center it in the opening of the filter housing.
2. Use the filter handle and turn the filter cartridge clockwise to screw it in place. (Use caution not to overtighten as damage may occur to threads and is not covered under warranty.)
3. Replace the filter cover.



Safety guard of suction fitting must remain in place.

SUCTION GUARDS

There are suction guards in the footwell of your vessel in which water is drawn through for the jet pumps. The suction fittings have an integrated vacuum release built into them. In the event that a suction fitting gets blocked, air will be induced causing the pump to cavitate and the water flow interrupted. Once the blockage is removed, normal operation will resume.

Suction fittings are equipped with a safety guard. Suction through the fittings can be strong. The safety guard(s) must remain in place and undamaged.



INSTALLATION INSTRUCTIONS

A fitting with a damaged guard(s) can be dangerous, especially to small children or people with long hair. Should any part of the body become drawn to a fitting, turn the jet pump(s) off immediately. Long hair should be restrained. Never allow long hair to float freely in the vessel. Replace any missing or damaged suction guard(s).

NOTE: It is normal for the flow rates of the suction fittings to vary from strong to barely noticeable.

ELECTRICAL REQUIREMENTS

It is the responsibility of the spa owner to ensure that all electrical connections are made by a qualified electrician in accordance with all national, state, and local electrical codes in effect at the time of installation. Fuses are covered to be free of defect at time of installation only.

240 Volt

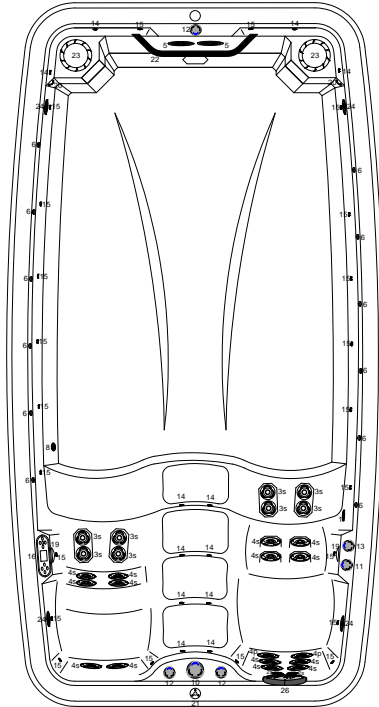
All connections must be made in accordance with the wiring diagram found on the inside of the control box cover. Connections must be made with copper conductors only – *do NOT use aluminum wire*. All conductors, circuit breakers, and fuses and the GFCI must be sized in accordance to the total amperage load as specified below.

Improperly wired vessels can cause irreversible damage resulting in blown fuse and melted terminal block, and to other electrical components. Also, damage caused to components or equipment caused by high or low voltage, brown outs or electric surges is not covered under warranty.

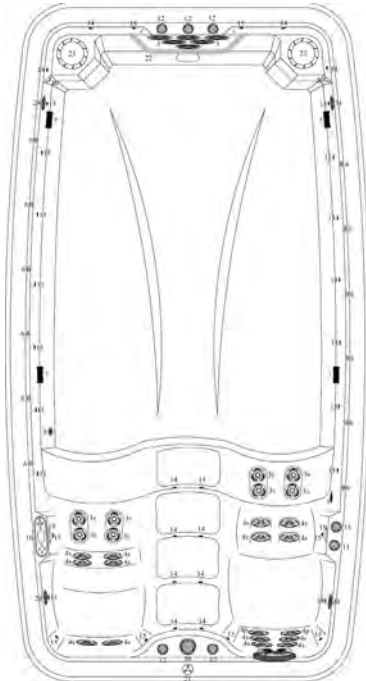
- Permanently connected (Hard wired).
- Rated US: 240V, 60Hz, 50A International 230V, 50 Hz, 32A, three wire (#6 copper) plus ground (#8 AWG copper (8.42mm²)(#6 AWG in Canada).
- Circuit breaker: 50A (32A INTL)
- A disconnecting means must be installed within sight from the equipment and at least 5 feet (1.52m) from the inside walls of the spa.
- Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI)
- All switches off (down)



ATV-14 SPLASH & SPORT DIAGRAM



ATV-14 SPLASH



ATV-14 SPORT

ATV-14 Specifications

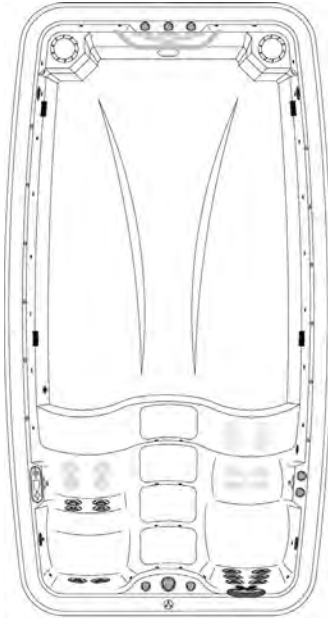
size	168.5" x 89.5" x 56" h
	428 x 227 x 143 cm
water depth	48" / 122 cm
weight dry/full	2,140 lb / 16,526 lb
	971 kg / 7,496 kg
water capacity	1,725 gal / 6,529 l
electrical US	240V, 60Hz, 50A
electrical INTL	230V, 50Hz, 32A
Splash pump	1 Dual Speed
Sport pump	3 Dual Speed
therapy jets	26
ATV Splash	2 Turbo Swim Jets
ATV Sport	6 Turbo Swim Jets

#	Description	Qty
1	Ozone Fitting	1
2	200 Series Jets	2
3	300 Series Jets	8
4	400 Series Jets	16
5	ATV-14 Splash Swim Jets	2
5	ATV-14 Sport Swim Jets	6
6	ATV-14 Sport Fountain (Opt)	12
7	Sport Suction Fittings	4
8	Drain	1
10	3-2-1 Jet Valves™	1
11	Neck Jet Valve	1
12	Air Controls ATV-14 Splash	3
12	Air Controls ATV-14 Sport	5
13	Fountain Valve (optional)	1
14	LED Lights	12
15	Interior LED Lights (optional)	22
16	Control Panel	1
19	Rowing Rod Mounting Plate	2
20	Rowing Band Clip	2
21	Splash Swim Tether Plate	1
21	Sport Swim Tether Plate	2
22	Grab Rail	1
23	Vortex Filter	2
24	Speakers (optional)	4
25	Headrest Attachments	2
26	Headrest	1

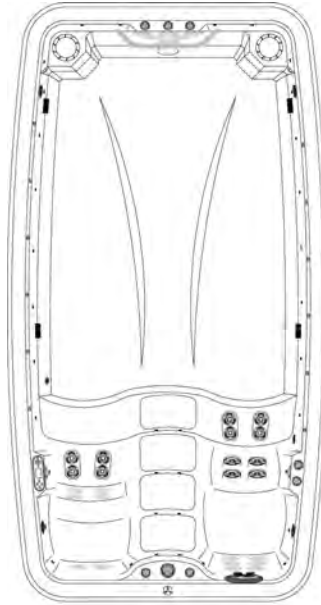


ATV-14 SPLASH & SPORT ZONES

PUMP 1 ZONE 1A Seat jets



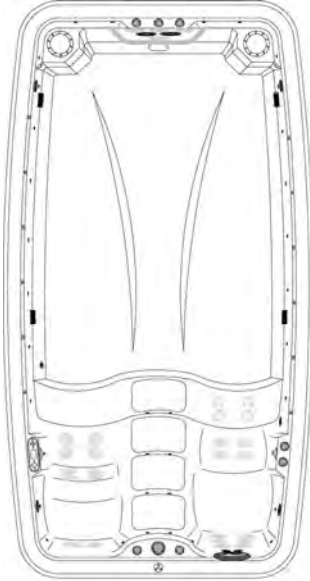
PUMP 1 ZONE 1B Seat jets



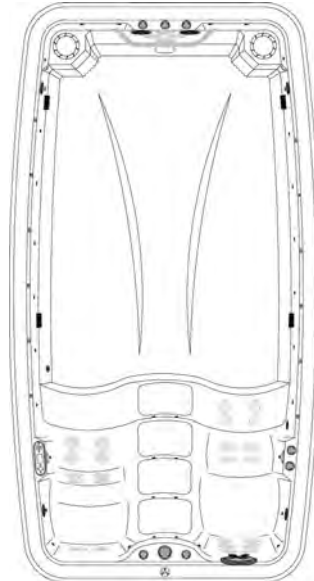


ATV-14 SPORT ZONES

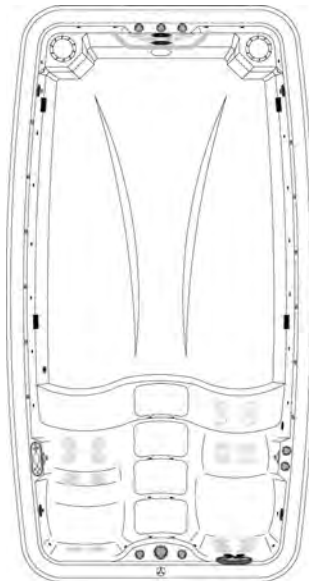
PUMP 1 ZONE 1C Swim jets



PUMP 2 ZONE 2 Swim jets

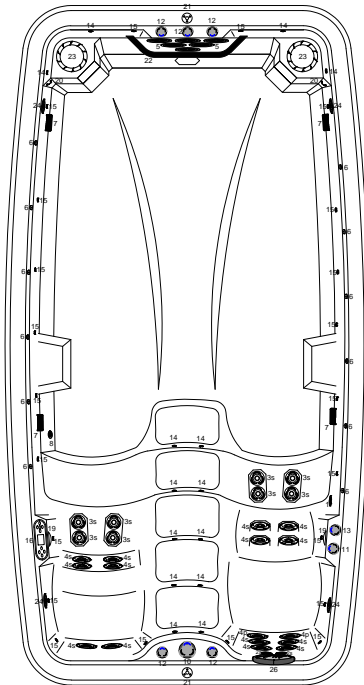


PUMP 3 ZONE 3 Swim jets

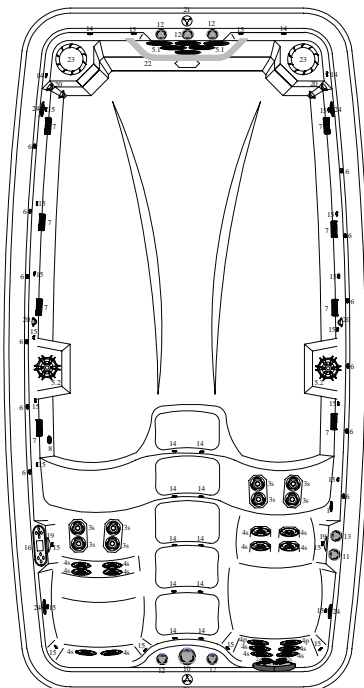




ATV-17 SPORT & KONA DIAGRAM



ATV-17 SPORT



ATV-17 KONA

ATV-17 Specifications

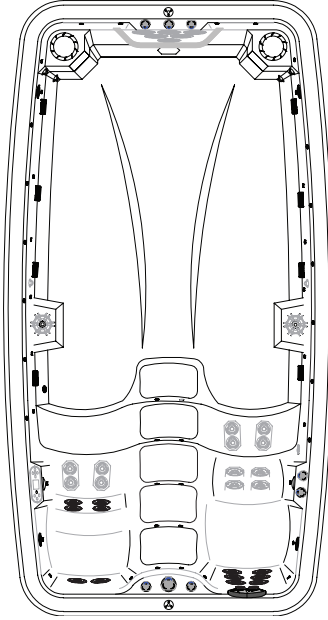
size	204" x 89.5" x 61" h
	518 x 227 x 155 cm
water depth	53" / 135 cm
weight dry/full	3,060 lb / 22,450 lb
	1,388 kg / 10,180 kg
water capacity	2,400 gal / 9,085 l
electrical US	240V, 60Hz, 50A
electrical INTL	230V, 50Hz, 32A
pumps	3 dual speed
therapy jets	26
ATV Sport	6 Turbo Swim Jets
ATV Kona	6 Whitewater-4 Jets
ATV Kona	2 Buoyancy Jets

#	Description	Qty
1	Ozone Fitting	1
2	200 Series Jets	2
3	300 Series Jets	8
4	400 Series Jets	16
5	Swim Jets	6
	Buoyancy Jets (Kona)	2
6	Fountain (optional)	12
7	Sport Suction Fittings	4
7	Kona Suction Fittings	8
8	Drain	1
10	3-2-1 Jet Valves™	1
11	Neck Jet Valve	1
12	Air Controls	5
13	Fountain Valve (optional)	1
14	LED Lights	14
15	Interior LED Lights (optional)	22
16	Control Panel	1
19	Rowing Mounting Plate	2
20	Rowing Band Clip	2
21	Swim Tether Plate	2
22	Grab Rail	1
23	Vortex Filter	2
24	Speakers (optional)	4
25	Headrest Attachments	2
26	Headrest	1

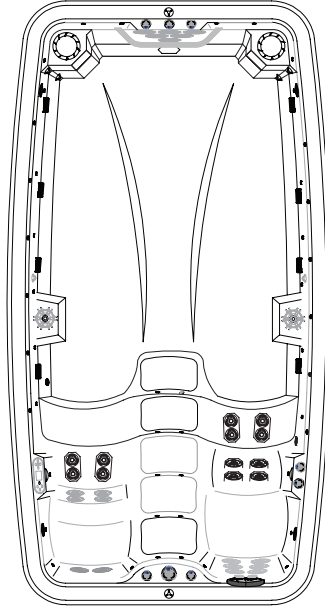


ATV-17 SPORT & KONA ZONES

PUMP 1 ZONE 1A Seat jets



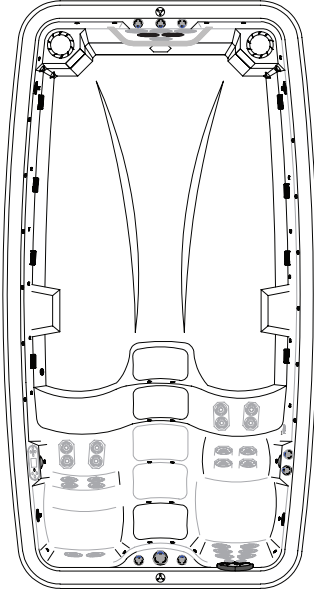
PUMP 1 ZONE 1B Seat jets



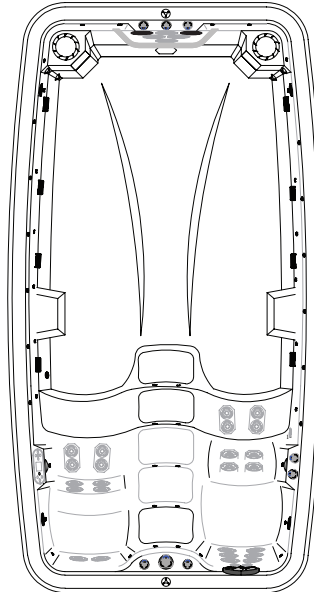


ATV-17 SPORT ZONES

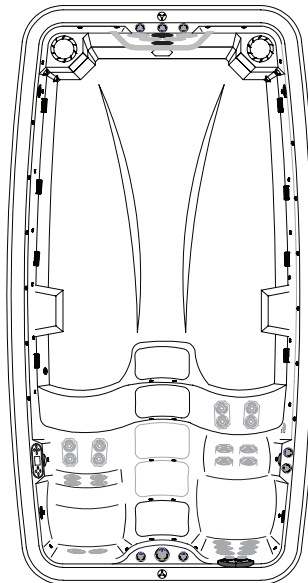
PUMP 1 ZONE 1C Swim Jets



PUMP 2 ZONE 2 Swim jets



PUMP 3 ZONE 3 Swim jets

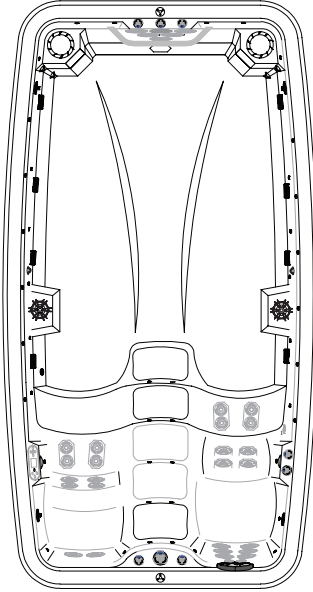




ATV-17 KONA ZONES

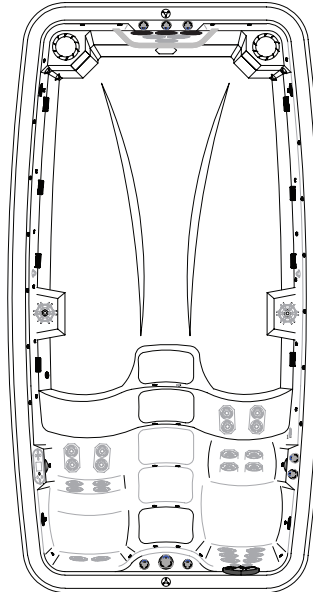
PUMP 1 ZONE 1C

Buoyancy jets (Kona only)



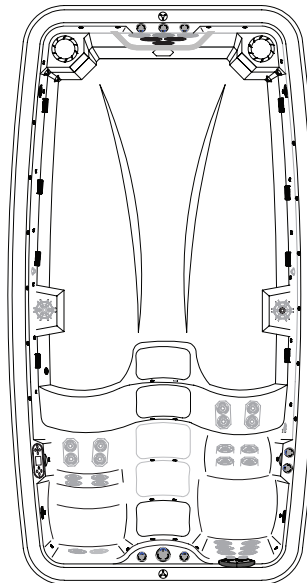
PUMP 2 ZONE 2

Swim jets



PUMP 3 ZONE 3

Swim jets





STARTING YOUR ATV

Improperly wired vessels are beyond the manufacturer's control and are not covered under the warranty. Other items beyond manufacturer's control include, but are not limited to, damage resulting from: improper connections; accidents; failure to follow procedures and instructions defined in the manufacturer's printed instructions; cleaning agents; and natural occurrences including but not limited to rodent or insect infestation, mold, lightning and other acts of nature.

STARTUP PROCEDURE

Your vessel is equipped with solid-state Comfort Controls specific to your vessel model. (See **VESSEL CONTROL OPERATION** for your specific spa model.)

NOTE: Your vessel has been filled and test-run at the factory. The first time your vessel is filled with water, some discoloration from residual test water may appear. This will disappear when the vessel is completely filled and the filtration system is functioning.

WARNING: Vessel must be completely filled with water before turning on power. Test the water for the proper chemical balance and adjust as necessary. SpaCare products are recommended. To start your vessel, you need chemical test strips. (See **WATER TREATMENT**.)

PROPER CHEMICAL BALANCE IS IMPORTANT for your safety and the longevity of your vessel. In the case of relocating your vessel, it is imperative to follow the instructions in the owner's manual. These instructions must remain with the vessel. Damage caused by relocating vessel is not covered under warranty.

THERAPY PUMPS

Allow the vessel to circulate on high-speed (see **VESSEL CONTROL OPERATION**) for four to five minutes to discharge air from the plumbing system. Do not expect hot water immediately from the jets; the heater will take several hours to heat the water. Typically one degree per hour in most conditions.

Startup procedure for all models

1. Place vessel on a hard, flat, level surface. Make sure the power supply is off.
2. Make sure the suction guard(s) in the footwell are in place and undamaged.
3. Open the equipment door. Tighten all disconnects and open all shut-off valves.

NOTE: Keep the drain valves closed at all times except when draining the spa (do not rely on the cap to stop the flow of water). Not doing so could result in damage to the drain valve due to freezing water.

4. Install filter cartridges. (See **INSTALLATION INSTRUCTIONS**, Filter Cartridges.)
5. Fill water to 2/3 up on the skimmer. **DO NOT OVERFILL.** The use of a Fill Filter is recommended, especially in areas with high mineral content in the water.
6. Turn the power on.



STARTING YOUR ATV



Vent air by slightly opening pump unions.

WARNING: Spa must be completely filled with water before turning on power.

7. Your vessel is now in “pump priming” mode and a “Priming Mode” message displays in the LCD window of the control panel. While in this mode the spa appears idle, which lasts approximately four to five minutes if not exited manually. To exit manually, press the JETS 1 pad.
8. Allow the vessel to circulate on high-speed (see SPA CONTROL OPERATION) for four to five minutes to discharge air from the plumbing system. Do not expect hot water immediately from the jets; the heater will take several hours to heat the water.
9. At this time the vessel should have water flowing from the jets. If the pump has not primed and the water is not flowing from the jets after two minutes TURN OFF POWER TO THE VESSEL and vent air from the pumps by slightly opening the pump unions located behind the equipment door. After turning the power on again, the vessel initiates a new priming mode. Repeat steps above.
10. The system requires approximately two minutes of water flow to determine the water temperature. After two minutes of water flow, the temperature is displayed as actual water temperature. After you have manually exited the priming mode (or allowed the vessel to automatically exit) the LCD window momentarily displays 100°F (38°C) and then the display switches to - - °F.
11. The factory default setting for water temperature is 100°F (38°C). Use the TEMP pads on the control panel to set the water temperature to the desired level. (See SPA CONTROL OPERATION.) It can take up to 48 hours to heat the water to desired temperature depending on the water temperature and voltage of your vessel.
12. If water is not coming out of the jets, check to make sure the adjustable jets are open. Simply turn the jet face to open or close the jets.



OPERATING YOUR ATV

DURACOVER®

When the vessel is not in use, the DuraCover® should be kept on the spa to retain the water's heat and to keep out dirt, leaves, etc.

For your safety and convenience, the cover is equipped with fixed-length straps, safety locks, and handles. Use the exterior handles to remove and replace your cover. Never attempt to open or remove the cover by grasping or pulling on the cover skirting or cover lock straps as the skirting will tear.

The manufacturer suggests you use the safety locks to help keep out unintended users, prevent covers from being blown off in windy conditions and to maximize heat retention/energy efficiency. The cover and retractable cover system are not recommended for use in wind conditions reaching above 25 miles (40 KM) per hour. If your vessel is located in an area susceptible to high winds, additional cover Wind Straps may be necessary to minimize cover damage.

NOTE: The exclusive DuraCover® is designed for optimum protection of the vessel shell. Using an aftermarket cover will not provide the same protection and will void the shell warranty.

Open the vessel cover:

1. Unfasten all cover lock straps.
2. Place one hand under the cover skirting, between the vessel and cover, to break the cover's vacuum seal. Do not use cover handles to break vacuum seal.
3. Starting at the middle of the cover, fold each half on to the back half and then off the vessel providing full access. Because of the size of the vessel and cover, it is highly recommended to have cover lift assists attached to the vessel to aid in removal.

NOTE: Unlock and release all cover locks before attempting to open cover. Damage caused by attempting to open the cover while locked or during wind conditions is not covered under warranty. Do not walk, stand, climb, or sit on the vinyl cover or retractable cover system. Do not use hard, sharp, or metal objects, such as a windshield scraper, to remove ice. Such objects can cut, mar, or puncture the cover's vinyl surface.

Close the vessel cover:

1. Slide folded cover onto one half of spa.
2. Unfold the cover by lifting the handle located on the top (front) half of the cover. Allow the unfolded half to fall gently onto the vessel. Repeat on the other side bringing the two halves together. Be sure to snug the two halves together to retain heat in the vessel.
3. Secure the cover lock straps to the vessel and lock them.

NOTE: When opening a cover with a cover removal mechanism, use one of the manufacturer's recommended methods. Do not attempt to open the cover in any other way. Damage caused by improper opening or closing of the cover is not covered under the warranty.

Fading, staining, torn stitching of the vessel cover and broken foam cores are not covered under the warranty for any reason. Vessel covers do not qualify for labor coverage under the warranty. These parts can be purchased or exchanged under warranty at your authorized dealer.



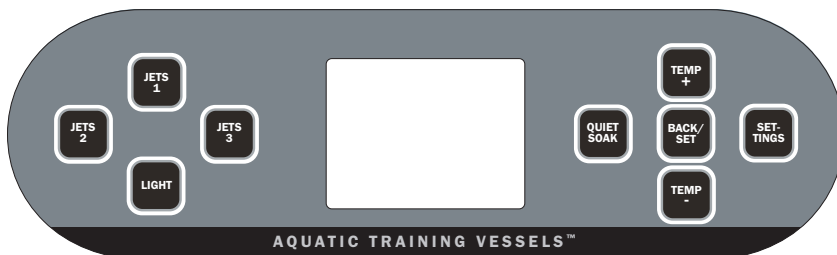
OPERATING YOUR ATV

Your vessel has been configured at the factory to run without any additional programming changes other than setting the desired temperature. We do however recommend that the time is set as this will be shown in the display as a convenience and aids in controlling when the vessel will filter. See "changing the system settings" on setting the time.

The vessel controls are state of the art and will retain all of the settings or changes that have been made in the event of a power failure.



CONTROL PANEL OPERATION INSTRUCTIONS



HOT KEYS

Using pump 1: (Jets in seats and swim jets)

Pressing the Jets 1 button will turn pump 1 on low speed. Pressing a second time will turn the pump on high speed. Pressing the button a third time will turn the pump off. The pump will run for 15 minutes before shutting off or switching to low speed. If the pump continues to run on low speed after the 15 minute timeout, the system is either calling for heat or has entered into a filtration cycle.

Using pump 2: (Swim jets only)

Pressing the Jets 2 button will turn pump 2 on low speed. Pressing a second time will turn the pump on high speed. Pressing the button a third time will turn the pump off. The pump will run for 15 minutes before shutting off or switching to low speed.

Using pump 3: (Swim jets only)

Pressing the Jets 3 button will turn pump 3 on low speed. Pressing a second time will turn the pump on high speed. Pressing the button a third time will turn the pump off. The pump will run for 15 minutes before shutting off or switching to low speed.

LIGHT:

Pressing the light button will turn the LED lights on. Pressing a second time will turn them off. If left on the LED lights will automatically turn off after 30 minutes. You can change the color of the LED lights by pressing the light button repeatedly within 3 second intervals. Doing this will allow you to scroll and choose a specific color or light sequence.

ALL QUIET SOAK FEATURE

Pressing the Quiet Soak button activates a special feature that turns off all pumps and heater allowing for a quiet soak in the hot water. Pressing the button a second time will restore the unit back to normal operation. If left on, the Quiet Soak mode will time out after 15 minutes and revert back to normal operation.

Note: Periodically the pump/s may continue to operate for a short time after pressing the Quiet Soak button. This typically happens when the vessel is in a heat cycle as the heater will need a short period to cool down before stopping the water flow.



OPERATING YOUR ATV

SETTING THE TEMPERATURE

Pressing the temp up or temp down buttons allow you to adjust the heat to the desired temperature. The set temperature is shown in the left hand side of the LCD display. Pressing and holding the temp up or temp down button will allow for an accelerated change of the temp.

Factory default temp - 100°F (38°C)

Maximum set temperature - 104°F (40°C)

Minimum set temperature - 60°F (16°C)

CHANGING THE SYSTEM SETTINGS

A few basic keystrokes will allow for easy navigation of the available programming options. The settings, Quiet Soak, Temp + and Temp - buttons also serve as side to side and up and down navigation controls when in the menu. Note the arrows on the buttons. The back/set button in the center is used to save a setting or go back one screen at a time.

Tip! Note that the menu item that is selected will be brighter in the display than the others indicating where you are in the menu.

Tip! If you have accidentally entered the setting menu, simply press the back/set button or wait 30 seconds to go back to the home screen.

Programming choices shown in the main and sub menus. (See definitions of menu and sub menu items.)

- Heat Mode (main menu item)
- Ready
- Rest
- Time of day (main menu item)
- Current set time
- Filter cycles (main menu item)
- Filter cycle 1 and filter cycle 2
- Preferences (main menu item)
- Temp display – Choose between Fahrenheit “F” or Celsius “C”
- Time display – choose between 12 or 24 hour display
- Cleanup – choose the length of time of the clean-up cycle
- Language – choose between English, Spanish, French or German
- Diagnostics (main menu item)
- Vessel information
- A/B Temps
- Fault Log

To make a change, perform the following sequence

- Press the setting button to display the main settings menu
- Press the settings button to move over into the main settings menu
- Scroll down by pressing the temp down button to the desired menu item
- Press the settings button to move into the sub menu
- Press the temp up or temp down to change the parameters (note if a change is made, the save and cancel icons appear on the left hand side of the screen).



OPERATING YOUR ATV

- Press the soak button to move to the left to the save icon. Note the save icon will be brighter than everything else.
- Press the back/set button to save your selection. If you want to cancel your choice use the temp down button to navigate to the cancel icon or simply wait 30 seconds which will end the programming session.

Preferences

- Temp display: Factory set to Fahrenheit "F" but can be changed to Celsius "C" in alignment with local methods of displaying temperature
- Time display: Factory set to 12 hour but can be changed to 24 hour. 12 hour will display "AM" and "PM" after the time if 12 hour is chosen. Choosing 24 hour will display the time in military time.
- Clean-up: Factory set to 30 minutes (.5hr). A clean-up cycle will start 30 minutes after you have finished using the vessel. You have the ability to extend the clean-up time in .5 hr increments to suit your usage patterns and increase the filtration of the water after use.
- Language: Factory set to English. Choose between English, Spanish, French and German to support your specific language in the display.

Diagnostics

- Vessel, Information, A/B Temps and Fault Log are sub menu items used for troubleshooting issues you may encounter with the vessel operation. These functions can only be viewed and not changed. Typically these functions will be used by a service technician but can be helpful to the owner when reporting an issue to the dealer or service technician over the phone.

Wi-Fi control: (if equipped)

- Your vessel is configured with a special component that will allow wireless control with most Apple® and Android® based devices. This is an exciting feature that allows wireless operation of the vessel functions and most settings.
- Please note that the typical operating range is within 30 FT (9 M) of the vessel depending on obstructions or location/orientation. The signal may not be strong enough in some cases to adequately establish and hold communication between the vessel and your device especially when operating from indoors and the signal has to travel through walls. Keep this in mind when placing your vessel during installation in an effort to keep any obstructions to a minimum.

Initial set up:

- In order to communicate and operate the vessel, you will need to go to the App Store and download the free "Marquis Spas" app to your device.
- Go to the settings section on your device and choose the "Wi-Fi" tab. Be sure that the Wi-Fi selection slider is set to the "On" position so your device will discover all available Wi-Fi choices. Choose the tab labeled BWG followed by a series of numbers. Be sure your device connects which should be shown by the presence of a check mark next to the name.



OPERATING YOUR ATV

- Return to the main screen and open the Marquis® App and proceed to “connect” with the vessel. Stopping the connection process and restarting may be required. There is nothing wrong with the unit as this can be caused by protocols issued by Apple Inc®.
- Once connected you will be able to operate the jets and light on the control tab of the App. Moving to the settings tab will allow changing the time, temperature and filtration settings of the vessel.
- Note: If your device goes to sleep, screen darkens, or is turned off you will need to reconnect again with the vessel in order to reestablish control.

Audio system (optional)

The audio system is easy to operate with logical push pad controls and function keys. Please refer to the Infinity® owner’s manual for features, operation, and troubleshooting. There are four surface mount speakers on the inside walls of the vessel. Splashing and periodic water contact are fine but do not overfill the vessel above 2/3 up on the skimmer or submerge the speakers. This could cause premature failure of the speaker and will not be covered under the warranty.

CAUTION - Risk of Electric Shock. Replace components only with identical components.

Do not operate the audio controls while inside the vessel.

WARNING – Prevent Electrocution. Do not connect any auxiliary components (for example, cable, additional speakers, headphones, additional audio/video components, etc.) to the system, except as provided by the following: The 3.5 mm auxiliary jack and USB are designed for input only from devices such as an MP3 player operating at 4.5V or less.

- These units are not provided with an outdoor antennae; it should be installed in accordance with Article 810 of the National Electrical Code, ANSI/NFPA 70.
- Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified service personnel.
- If the power supply connections or power supply cord(s) are damaged; if water is entering the audio compartment or any electrical equipment compartment area; or if there are signs of other potential damage to the unit, turn off the unit and refer servicing to qualified service personnel.
- This unit should be subjected to periodic routine maintenance (for example, once every three months) to make sure that the unit is operating properly.

Audio Expansion Port (optional)

The built-in audio expansion port allows you to connect optional accessories. Use of a MP3 player or USB memory stick are supported. NOTE: The 3.5 mm auxiliary jack is designed for input only from devices such as an MP3 player operating at 4.5V or less.



SWIM TETHER™

Swim Tether™ Installation

Please visit the website, www.SwimTether.com for installation instructions.

- Place connecting rod into base plate on ATV lip.
- Attach belt and the bar to enclosed cord by the use of spring clips.
- When placing belt around waist adjust slide clip so that there is some slack between your spine and where the slide clip is located, then latch buckle. Place belt so that it rests on the forward portion of your hips and NOT tight around the waist.

Swim Tether™ Use

- Stretching should be performed following an adequate warm-up period of three to five minutes. Proper stretching should result in feeling of gentle pulling and not cause pain.
- Do not force a movement in any extremity or joint.
- Perform exercises slowly for full ROM (range of motion) and to permit complete action of the muscle. If you cannot reach full range of motion, move only as far as comfortable.
- Reps are 8-10; intensity should be individualized.
- Use the phenomena of body awareness and bio-feedback to induce relaxation and increase postural awareness.
- Any participants who have had a hip or knee replacement or surgery should not perform any cross lateral movements (Adduction of the hip where the affected leg is brought across the midline of the body such as crossing one's legs should be avoided. Abnormal rotation of the hip (especially internal rotation) can lead to dislocation).
- Consult your physician prior to starting ANY type of exercise program post-surgery.

Note: Slow controlled movements contribute to balance and coordination and encourage the participants to think about body positioning for each exercise. The size and speed of the movement determines the intensity.

WARNING: Swim Tether™ is NOT intended to be a lifesaving/floatation device.

- Swim Tether™ should be mounted no higher than 24IN (61CM) above the waterline for safety.
- DO NOT Stand directly behind a Swim Tether™ that is in use.
- Swim Tethers are intended for use in a swim spa. DO NOT use Swim Tether™ out of the water. The Swim Tether™ fiber rod and aluminum connections are guaranteed against defects in materials and workmanship for life under its intended use.
- For proper use, enter the stairs end of the ATV then secure to your waist.
- DO NOT jump into the ATV while attached to the Swim Tether™.
- REMOVE Swim Tether™ from ATV and STORE in a cool, dry place when not in use to protect from UV and chemical exposure.
- NEVER let children use Swim Tether™ without adult supervision!

Care Instructions

- Rinse Swim Tether™ with fresh water after every use.
- Store in cool dry place to protect from UV and chemical exposure.
- Inspect materials regularly for cracks, tears or other damage. DO NOT use if damaged.

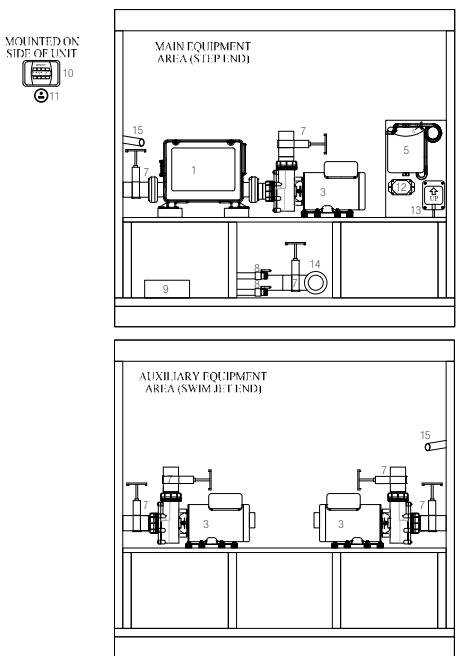


ATV EQUIPMENT DIAGRAM

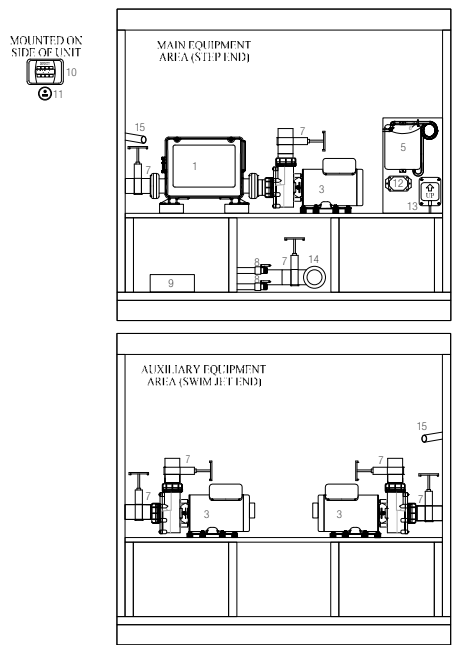
ATV-14 & ATV-17 EQUIPMENT DIAGRAM

PLEASE NOTE: The following corrective actions may be performed by the vessel owner. If the trouble cannot be corrected in the steps below, please contact your authorized dealer for service. (Improper servicing by an unauthorized service provider or vessel owner could result in damage not covered by the warranty and could cause serious injury.)

ATV-14 Equipment



ATV-17 Equipment



#	Component	Qty
1	Control Box and Heater	1
3	Pumps	3
5	Ozonator	1
6	Check Valve	1
7	Slice Valves	7
8	Hose Bibs	2
9	Stereo Power Supply (option)	1
10	Stereo Head (option)	1
11	Audio Expansion Port (option)	1
12	LED Lights (option)	1
13	Wi-Fi Transceiver (option)	1
14	High Volume Drain	1
15	Electrical Raceway, back to front	1

#	Component	Qty
1	Control Box and Heater	1
3	Pumps (Sport)	3
	Pump (Kona)	1
5	Ozonator	1
6	Check Valve	1
7	Slice Valves	7
8	Hose Bibs	2
9	Stereo Power Supply (option)	1
10	Stereo Head (option)	1
11	Audio Expansion Port (option)	1
12	LED Lights (option)	1
13	Wi-Fi Transceiver (option)	1
14	High Volume Drain	1
15	Electrical Raceway, back to front	1



PLEASE NOTE: The following corrective actions may be performed by the spa owner. If the trouble cannot be corrected in the steps below, please contact your authorized dealer for service. (Improper servicing by an unauthorized service provider or spa owner could result in damage not covered by the warranty and could cause serious injury.)

EQUIPMENT WILL NOT OPERATE

- Check the control panel LCD window for diagnostic code.
- Check the circuit breaker on the main circuit panel.

INADEQUATE JET ACTION

- Be sure the shut-off valves in the equipment area are completely open.
- Open the jets by turning the jet face counterclockwise to allow for maximum water flow.
- Check that the air control valve is open (rotate lever counterclockwise).
- Check for obstruction or restrictions at suction guard(s) or filters, such as leaves, etc.

JET VALVES ARE HARD TO OPERATE

- Valves and rotating jets that become hard to turn is an indication of sand, dirt or high calcium level in the water.
- Remove components and rinse before damage occurs.
- Advise bathers to shower or use a foot bath before entering the spa. Failure to use or maintain valves as directed may cause damage by introduction of foreign materials such as dirt, sand and calcium build up that is not covered under the warranty.

NO HEAT

- Check temperature displayed in the LCD window for desired temperature setting.
- Inspect the filter cartridge(s) for dirt and debris.
- Check that the water is at proper level, 2/3 up the Vortex skimmer opening(s).
- Check HEAT MODE to be certain the vessel is not in REST MODE.
- Lower ambient temperatures may result in heat loss.

NOTE: Do not expect instant hot water from the jets. It will take the heater up to 48 hours to heat the water to the temperature you desire.

GENERAL MESSAGES

Most messages and alerts will appear at the bottom of the screens. Several alerts and messages may be displayed in a sequence.

Some messages can be reset from the panel. Messages that can be reset will appear with a "right arrow" at the end of the message. This message can be selected by navigating to it at pressing the Select button.

---°F ---°C

Water temperature is unknown.

After the pumps have been running for 2 minutes, the temperature will be displayed.



Possible freezing condition

A potential freeze condition has been detected, or the Aux Freeze Switch has closed. All water devices are activated. In some cases, pumps may turn on and off and the heater may operate during Freeze Protection. This is an operational message, not an error indication.

Priming mode - M019

This mode will last for 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed. Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically return to normal heating and filtering at the end of the priming mode. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by pushing the “Jet” buttons. If the spa has a Circ Pump, it can be activated by pressing the “Light” button during Priming Mode.

The water is too hot - M029

The system has detected a spa water temp of 110°F (43.3°C) or more, and the spa functions are disabled. System will auto reset when the spa water temp is below 108°F (42.2°C). Check for extended pump operation or high ambient temp.

HEATER-RELATED MESSAGES

The water flow is low - M016

There may not be enough water flow through the heater to carry the heat away from the heating element. Heater start up will begin again after about 1 minute. See “Flow Related Checks” below.

The water flow has failed* - M017

There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. See “Flow Related Checks” below. After the problem has been resolved, you must press any button to reset and begin heater start up.

The heater may be dry* - M028

Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 min. Press any button to reset the heater start up. See “Flow Related Checks” below.

The heater is too hot* - M30

One of the two water temp sensors has detected 118°F (47.8°C) in the heater and the spa is shut down. You must clear the message when water is below 108°F (42.2°C). See “Flow Related Checks” below.

Flow-Related Checks

Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime.



ATV™ TROUBLESHOOTING GUIDE

On some systems, even when spa is shut down by an error condition, some equipment may occasionally turn on to continue monitoring temperature or if freeze protection is needed.

SENSOR-RELATED MESSAGES

Sensors are out of sync - M015

The temperature sensors MAY be out of sync by 2°F or 3°F. Call for service.

Sensors are out of sync -- Call for service* - M026

The temperature sensors ARE out of sync. The fault above has been established for at least 1 hour. Call for service.

Sensor A Fault, Sensor B Fault - Sensor A: M031, Sensor B: M032

A temperature sensor or sensor circuit has failed. Call for service.

MISCELLANEOUS MESSAGES

Communications error

The control panel is not receiving communication from the System. Call for service.

Test software installed

The Control System is operating with test software. Call for service.

°F or °C is replaced by °T

The Control System is in Test Mode. Call for service.

SYSTEM-RELATED MESSAGES

Program memory failure* - M022

At Power-up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program) and requires a service call.

The settings have been reset (Persistent Memory Error)* - M021

Contact your dealer or service organization if this message appears after more than one power-up.

The clock has failed* - M020

Contact your dealer or service organization.

Configuration error (Spa will not start up)

Contact your dealer or service organization.

The GFCI test failed (System could not test the GFCI) - M036

(North America only) May indicate an unsafe installation. Contact your dealer or service organization.

A pump may be stuck on - M034

Water may be overheated. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

Hot fault - M035

A pump appears to be stuck ON when spa was last powered. POWER DOWN SPA IMMEDIATELY. DO NOT ENTER THE WATER. Contact dealer or service organization.

*This message can be reset from the topside panel.



HOW TO PROLONG THE LIFE OF YOUR VESSEL

There are some simple steps you can take to prolong the life of your vessel. Please follow the guidelines listed below to ensure the most trouble free and enjoyable use of your vessel.

Rinse your feet

Please remember to rinse your feet before getting into the vessel. This will help prevent sand and dirt from entering the plumbing system where it can clog valves and plug filters.

Maintain your valves

If one of your valves begins to feel hard to turn, please remove the valve and rinse it. To remove the valve, please turn the power off to the vessel and remove the handle for the valve. Turn the top portion of the valve cap counter clockwise to expose the valve insert. Using the valve stem, please pull straight up on the insert. Rinse the valve and put back the insert into the sleeve and then replace the cap and handle. If the valve is scratched, it is a good idea to use a fine grit sand paper to smooth the valve insert before reinstallation.

Keep the cover on

Always keep your vessel cover closed when the vessel is not in use. This helps prevent unwanted debris from entering the vessel and prevents sun exposure that could damage the surface and the jets of the vessel. For full warranty coverage, please note the vessel must remain covered at all times when not in use.

Keep the water clear and balanced

Water chemistry is another important part of vessel ownership. Please be sure to use only factory recommended products. In addition, please make sure you maintain proper pH and sanitizer levels. Drain and refill your vessel with fresh water every three to four months. On a regular basis, please use a spa vacuum to remove dirt and sand that can be seen on the floor of the vessel.

WEEKLY MAINTENANCE

Removing Debris

Remove any debris and leaves from the Vortex skimmers and suction guard(s) on the inside of the vessel. Blocked intakes can impede the flow of water through the jetting system.

Water Level

Replenish the water level if necessary so that it is approximately two-thirds up the Vortex skimmer opening. (See STARTING YOUR VESSEL.) Low and high water levels can damage your vessel. It is important to check your water level often.



MONTHLY MAINTENANCE

Filter Care

We cannot stress enough the importance of a clean filter for proper water filtration. Dirty filters can restrict water flow, cause hazy water, and prevent your chemicals from working properly. Dirty filters can also cause low flow from jets, poor water clarity and sensors to activate error codes. It is important to clean filters regularly. Many water treatment products clear or clarify the water by clumping microscopic particles and minerals together so that these larger particles can be effectively trapped in the filter. A filter clogged with debris and calcium deposits does not trap particles properly. Treat your filter cartridge with Filter Cartridge Cleaner monthly.

Removing the Filter

Turn off the vessel breaker. Grasp the edge of the Vortex skimmer lid, pull up firmly, but gently, to remove it.

Turn the filter cartridge counterclockwise to unscrew it from its base. Lift out the filter cartridge.

Use a hose to clean the filter cartridge and Rapid Action Filter Cleaner to treat the filters.

NOTE: Keep extra filters on hand so you always have a clean one ready to rotate in, allowing you to enjoy your swim spa. Remember to replace the filter cartridge at least once a year.

Reinstalling the Filter (ATV)

Repeat the steps above in reverse. Do not overtighten the filter as it may cause the threads on the bottom to strip and fail to hold the filter in place. (See INSTALLATION INSTRUCTIONS, Filter Cartridges.)

CAUTION: Overtightening of the filter can cause the filter or filter housing to crack. Tighten filter until it is just snug.

NOTE: Filters and filter lids do not qualify for labor coverage. These parts can be purchased or exchanged under warranty at your authorized dealer.

Leakage Detection

Open the equipment door and check for signs of water leakage around the pump(s). Pump seals wear out over time, especially with improper water chemistry. Early detection of pump seal failure can significantly reduce repair costs. Pump seals, heater gaskets and pump gaskets must be checked each month to ensure they are not leaking. Further damage caused by a leak from any component is not covered under the warranty.



EVERY THREE TO FOUR MONTHS

Draining and Filling the Vessel

The average vessel needs to be drained every three to four months. After months of continually adding chemicals to the water and introducing body oils and lotions, the water can be difficult to manage and chemicals are not as effective as usual. You may also notice excessive foaming. More frequent draining may be required depending on use.

Draining the Vessel

1. Turn off the power to the vessel.
2. Open the equipment compartment (see EQUIPMENT DIAGRAM). Remove the hose bib cap from the connection and attach a hose. There are two hose bibs used to drain the water from the vessel. Due to the size of the vessel, you may want to use a sump pump to speed up the process. The vessel is equipped with a large discharge hose that will drain the unit very quickly. To use, remove the cap on the end of the hose and pull the hose out to extend it. Allow water to discharge away from the vessel. Open the handle on the gate valve to start the flow of water.
3. Open the drain valve. Gravity causes the water to drain out of the hose.
4. When the vessel is empty, close the drain valve and remove the hose. Reinstall the hose bib plug.

NOTE: Keep the drain valve closed at all times except when draining the vessel (do not rely on the cap to stop the flow of water). Not doing so could result in damage to the drain valve due to freezing water.

Clean the Interior Surface

Once the vessel is drained, clean the interior surface thoroughly – especially at the water line. We suggest the *Glove Sponge* to clean without scratching.

Use Spa Bright for surface cleaning and to shine and gloss, try Gloss and Guard to create a protective layer on the vessel's surface – other products should be avoided except as stated below.

To maintain the high gloss and elegant look, just follow these simple steps: For normal care and cleaning use a soft cloth or sponge and water. Rinse well and dry with a soft, clean cloth. Never use abrasive cleaners. Do not allow your surface to come into contact with products such as ketones or esters such as acetone or ethyl acetate (nail polish remover), Wintergreen oil (methyl salicylate), nail polish, dry cleaning solution or other organic solvents, lacquer thinners, gasoline, aromatic solvents, citrus cleaners, pine oil, etc. Remove dust and dry dirt with a soft, damp cloth. Clean grease, oil, paint and ink stains with diluted isopropyl (rubbing) alcohol (do not let alcohol pool or remain on the surface). Dry with a clean, soft cloth. Avoid using razor blades or other sharp instruments that might mar the surface.

NOTE: Due to the high-gloss, fine finish of the surface, imperfections in the surface texture may occur. A natural aging process can lead to a process called crazing. Fine spider web-like lines can form on the cosmetic surface over time after exposure to the elements and chemicals.



ATV MAINTENANCE

Crazing represents no structural weakening of the vessel and is not covered under the warranty. Fading, staining and discoloration may also occur but represent no structural degradation and are not covered under warranty.

NOTE: Do not leave an empty vessel uncovered. Direct sunlight on the vessel surface can cause severe damage or blemishing, cause fittings to discolor and can result in the voiding of any surface warranties.

Refill the Vessel

Fill the vessel with fresh water from a garden hose and balance the water as described in the Water Treatment section. The use of a *Fill Filter* is recommended when filling especially in areas of high mineral content in the water. Attach to the end of a garden hose to filter out any grit and sediment that could accumulate in the vessel and potentially scratch the vessel surface.

AS NEEDED MAINTENANCE

Cover Care

It is recommended that you use *Cover Cleaner* to keep the exterior surface clean and conditioned. Proper care of the cover extends the life and keeps it looking great in even the harshest conditions. **NOTE:** Do not use regular household products or products that contain silicone, alcohol, steel wool, or bleach.

1. Remove the cover from the vessel and gently lean it against a wall or fence.
2. Use a garden hose to spray the cover and loosen and rinse away dirt or debris.
3. Use a large sponge and/or soft bristle brush with mild soap solution. Scrub the vinyl top in a circular motion. Rinse vinyl clean before soap film has a chance to dry.
4. Scrub the perimeter of the cover and side flaps. Rinse clean with water.
5. Rinse off underside of cover with water only (no soap) and wipe clean with a dry rag.
6. Use *Cover Cleaner* to condition the vinyl of the cover after cleaning.

Cushioned Headrest Care

To increase the life of your cushioned headrest, remove and rinse with care, replace when necessary.

Remove Cushioned Headrest

Slip your fingers under each end of the interior cushioned headrest part and gently pull straight towards you. Damage caused to attachments due to improper removal is not covered under warranty. Pillows and attachments are warranted to be free of defects at delivery only.

DuraWood Care

Clean the exterior of the vessel with a mild soap and water solution. Cleaners that contain alcohol or high levels of solvents, along with Acetone, Nitrobenzene, and Cyclohexanol, can dissolve and discolor the DuraWood exterior.

Excess Debris

Grit and debris tracked into the vessel should be removed with a Spa Vac.



Water Line

To avoid buildup of oils and lotions at the water line, clean the interior weekly or when needed. We suggest the Glove Sponge to clean without scratching.

NOTE: Do not use the same brush or sponge to clean the exterior of the vessel and the interior of the vessel. Soap and other product residue used on the outside of the vessel can cause foaming of the vessel water and scratches to the vessel surface if used on the inside of the vessel.

SUSPENDED USE OR WINTERIZING THE VESSEL

If you decide to discontinue the use of your vessel for any extended period of time, we suggest you follow the steps below.

NOTE: During long periods of inactivity, damage can occur to equipment from condensation within the equipment compartment. Failure to follow these instructions during freezing conditions will result in cracked fitting(s) and glue joints, and other damage.

1. Turn off the power to the vessel.
2. Drain the vessel. (See DRAINING AND REFILLING THE VESSEL.)
3. Remove all residual water from the seating and footwell. If necessary, bail out the remaining water then dry the vessel with towels. A wet/dry vacuum is recommended for best results.
4. Using the wet/dry vacuum, place vacuum nozzle over each jet nozzle to remove water from plumbing lines, starting with the highest jet and finishing with the lowest jet.

NOTE: The vessel is equipped with a Tri-Zone control which is used to divert water between different jet zones. The valve must be "open" to the particular jets you are vacuuming.

5. Unscrew the pump plugs from the pumps. (See STARTING YOUR Vessel.)
6. Again, using the wet/dry vacuum, place nozzle over the exposed pump openings to remove excess water. The pumps should be removed from the vessel and stored in a climate-controlled room.
7. Clean the vessel interior.
8. Clean the filter cartridges.
9. Reinstall the DuraCover™ and lock in place.

NOTE: Direct sunlight on the vessel surface can cause severe damage or blemishing and can result in the voiding of any surface warranties.

VACATION CARE INSTRUCTIONS

Short time periods: 3-5 days

1. Adjust the pH (see WATER CARE).
2. Sanitize the water by following the shock procedures (See WATER CARE).
3. Lock your vessel cover in place with cover locks.
4. Upon return, test the water chemistry and adjust as necessary.

Long time periods: 5-14 days

1. One day before leaving, set the temperature to its lowest level (approximately 80°F, 27°C).
2. Adjust pH as needed.
3. Shock or sanitize water.
4. Return temperature to original setting.
5. Test water chemistry and adjust as necessary.



IMPORTANT CHEMICAL SAFETY PROCEDURES

1. Always keep chemicals out of reach of children.
2. Read product labels carefully prior to use.
3. When dissolving, always add chemicals to water, do not add water to chemicals. Some dry chemicals should be dissolved prior to adding them to the vessel. Using a clean container, dip some water from the vessel. Mix until dissolved, then add to circulating water.
4. **CAUTION:** Do not mix chemicals together. Add them separately to the vessel water.
5. All chemical products should be stored in a cool, dry, well-ventilated area where the average temperature does not exceed 90°F (32°C). Keep storage area clean of debris such as rags, newspaper, and combustible materials.
6. Keep chemicals away from open flame or other heat source. Do not smoke near chemicals. If a dry chlorine chemical fire should occur, use water only. Do not use a dry chemical fire extinguisher to attempt to put out the fire.
7. When adding chemicals, always keep the water circulating in the vessel with jets in a downward circular pattern for better chemical distribution. Add chemicals to the vessel water one at a time. Allow several minutes between any new chemical additions using the jet action to evenly distribute throughout the vessel.
8. It is important to leave the vessel cover open for 20-30 minutes while shock treating your vessel to avoid damage. Do not leave vessel unattended while cover is open. Damage such as discoloration or brittle vinyl due to chemical damage is not covered under the warranty.
9. After adding chemicals, wait the amount of time recommended on the chemical container before retesting your water for an accurate reading. Retest your vessel water before using.
10. If you have any questions or concerns about the correct procedures for handling chemicals, please contact your authorized dealer.



WATER CARE

There are three things necessary for clean, safe water:

1. **CIRCULATE:** Water has to be circulated regularly; it can not be stagnant.
2. **FILTER:** Water has to be filtered to remove particulates and debris.
3. **SANITIZE:** Water has to be sanitized to kill organisms like algae, bacteria and virus.

It is critical to maintain proper water balance to protect the vessel heater and other components from damage. Damage to the vessel surface and equipment caused by poor chemical or harsh chemical treatment is not covered under the warranty. Discoloration of jet faces, valves and controls are an indication of poor chemical maintenance or exposure to the sun.

Jet inserts and valves do not qualify for labor coverage. These parts can be purchased or exchanged under warranty at your authorized dealer. Gaskets and seals are not covered under the warranty.

The control system in your vessel will automatically circulate and filter. (See Vessel Control Operation, ConstantClean™ and SmartClean™ sections.) The sanitation requires minimal effort if done consistently and properly.

To sanitize vessel water, three things are required:

1. **BALANCE:** The water must be balanced so the sanitizer can work and vessel equipment is protected.
2. **SHOCK:** Shock to oxidize organics and maximize sanitizer efficiency.
3. **SANITIZE:** Maintain a proper level of sanitizer at all times.

UNDERSTANDING WATER BALANCE

Water balance is the interrelation of factors that determine the quality of the vessel water. The effectiveness of chemicals and other additives are dependent on all these factors working together or "in balance". The primary elements to water balance are the calcium hardness, total alkalinity and pH. Always use water treatment products recommended for use in a vessel.

pH Balance

Keeping the pH balanced is the most critical component of water balance. Calcium hardness and total alkalinity act as buffers to stabilize the pH. When they are properly adjusted, the pH will be stable and easy to maintain. The pH is a measure of the relative acidity and basicity of the water. The ideal pH range is 7.4 - 7.6. When the pH falls below 7.2, the water can become corrosive. Low pH can cause damage to metal in the control system and heater, excessive sanitizer consumption, and skin irritation. A pH above 7.8 can be scale-forming and allow metals or minerals in the water to form deposits and stain vessel surfaces. pH above 7.8 can also cause eye and skin irritation.



Total Alkalinity

Alkalinity acts as a buffer to prevent the pH from changing as other substances are added to the water. Stability of the pH is directly related to the alkalinity. The alkalinity should be between 80 - 140 ppm. Alkalinity below 80 ppm makes it difficult to stabilize the pH. Alkalinity above 140 ppm may increase the pH and cause cloudy water, scaling, and decreased efficiency of the sanitizer.

NOTE: Alkalinity Increaser, pH Increaser and Alkalinity & pH Decreaser will affect both the pH and alkalinity. Generally, smaller additions will change the pH and have a very minor effect on the alkalinity. Larger additions will also affect the pH, but will have a much greater effect on the alkalinity. (Example: If the pH is very high and the alkalinity is within range, adding just a few smaller doses of pH and Alkalinity Decreaser instead of one large dose will reduce the pH with little effect on the alkalinity.)

Calcium Hardness

Do not use soft water in your vessel. It is critical to have calcium in your water. The ideal range of calcium is between 150 – 250 ppm. The calcium hardness is normally adjusted when filling or refilling after draining the vessel. High calcium levels can cause scale buildup on vessel surfaces and equipment. Your vessel can be protected against high calcium by using Metal & Stain Remover per the directions on the container. Low calcium levels can cause vessel water to become highly corrosive and damaging to the equipment components and plumbing. To raise calcium levels, use Calcium Hardness Increaser.

Balance

When initially filling or refilling your vessel, follow these steps to achieve proper water balance.

Important! Always follow instructions on the chemical container when adding chemicals.

1. Test the vessel water using a test strip or test kit. Determine the pH and alkalinity of the water.
2. If adjustments are needed for the pH and/or alkalinity, always balance the alkalinity before balancing the pH. The product(s) you should use to adjust pH and/or alkalinity are pH Increaser, Alkalinity Increaser or pH & Alkalinity Decreaser. Make any additions per the directions on the bottle and then test and repeat if necessary until all readings are in the desired range.
3. Increase the calcium hardness if necessary.



SHOCK

Initial Treatment

Shock the vessel using granular Chlorine Sanitizer Spa Shock. Add directly to the vessel per the instructions on the container. For the initial treatment, Chlorine Sanitizer is preferred as it will also establish a residual of sanitizer.

Maintenance Treatment

Once bacteria and other wastes are neutralized by the sanitizer, they stay in the water unless oxidized or shocked. Often called chloramines or bromamines, they create dull, cloudy water and can cause odor and eye or skin irritation. Shock treatment rids your vessel of these wastes for clear, vessel sparkling water. Shocking with non-chlorine Spa Shock or granular Chlorine Sanitizer is recommended once a week or whenever the water appears dull or cloudy or has a strong odor. Non-chlorine Spa Shock allows use of the vessel 15 minutes after shock treatment.

NOTE: A strong bromine or chlorine odor typically indicates the vessel needs to be shocked – not that there is too much bromine or chlorine in the water. A properly balanced vessel that is shocked regularly will not have an odor.

SANITIZE

SmartClean™ System

The SmartClean™ system works in conjunction with sanitizers to increase water quality and significantly decrease maintenance. The factory installed ozonator greatly reduces the amount of sanitizer required.

NOTE: Due to recommended temperature of the water in an ATV™ unit, Chlorine is more compatible with the ATV™ system than most bromine systems. Biguanides should not be used, damage to the vessel shell and other internal components can occur.

WATER CARE REGIMEN

SpaCare products are classified by easy to follow usage guidelines. The information below indicates whether the product should be used daily, weekly, monthly, when filling, or as needed – if special water conditions arise.

Please visit www.ATVswimspas.com to locate your local Dealer or products for the ATV swim spa.

DAILY

Sanitizer: Maintain 1-2 ppm of bromine or 3-5 ppm of Chlorine at all times.

WEEKLY

Spa Shock

Sanitizer combines with bacteria and neutralizes bacteria on contact. However, the used sanitizer/bacteria particle is still present in the vessel water. Used sanitizer in the water emits an odor and causes cloudy water. To oxidize, or rid the vessel of this used sanitizer, you must shock the vessel once a week.

NOTE: Additional shocking may be necessary if the vessel is under heavy use.



AS NEEDED PRODUCTS

pH Increaser

Alkalinity Increaser

pH & Alkalinity Decreaser

These three products work to raise or lower the pH and alkalinity in the vessel. They are only needed if the test strip indicates the levels are not in the ideal ranges.

Water Clarifier

Microscopic particles can pass through the vessel filter and create cloudy water. The use of SpaCare Water Clarifier combines these microscopic particles into larger particles that can be trapped in the filter to clear cloudy water.

Spa Defoamer

If foam appears in your vessel, the action of the jets will keep it from dissipating. The use of SpaCare Defoamer instantly rids your ATV of foam. If foaming persists for more than 24 hours, this may indicate a high calcium level, be sure to check for calcium hardness.

Metal and Stain Remover

Metal and Stain Remover will remove metals such as iron and copper from vessel water.

WATER CARE TROUBLESHOOTING GUIDE

NOTE: If you request a service call and no problem is found with the vessel or the problem is not covered by warranty (i.e. chemical damage), you will be charged at the regular service rate.

P: Problem

S: Solution

Cloudy Water

P: Inadequate filtration or dirty filter.

S: Ensure that the filter is securely installed. Clean or replace filter. Increase the length of clean up and/or filter cycles.

P: Water is not balanced.

S: Test water and adjust pH, alkalinity, and sanitizer as needed. Shock to oxidize and destroy organics in the water.

P: Unfiltered particles or chemically saturated.

S: Use Water Clarifier to combine particles.

P: High total dissolved solids.

S: Drain, clean, and refill the vessel.

Chemical Odor

P: Too many chloramines/bromamines in the water.

S: Treat water with Spa Shock, then adjust sanitizer level as necessary.

P: Dull looking water, difficult to manage. High total dissolved solids (TDS) may be the cause.

S: Drain, clean and refill with fresh water.

Musty Odor

P: Not enough sanitizer in water – bacteria or algae in water.

S: Add sanitizer as necessary and shock. Re-adjust sanitizer level if necessary.

Yellow Water

P: Low pH and/or low alkalinity.

S: Test and adjust pH with pH and Alkalinity Increase. Adjust alkalinity if necessary.



ATV CARE & ENJOYMENT GUIDE

Foaming

- P: High concentration of body oils, lotions or soaps, as well as excessive organics.
- S: Use Defoamer and adjust pH and sanitizer as needed.
- P: Excessive foaming past 24 hours.
- S: Check and balance calcium levels, excessive foaming can be an imbalance of calcium.

Scum Line in Vessel

- P: Body oils and dirt.
- S: Use Glove Sponge to clean the vessel. Test and adjust the sanitizer and pH if necessary. Increase the clean up cycle.

No Sanitizer Reading

- P: Sanitizer level is too low.
- S: Shock and/or adjust bromine or chlorine until the sanitizer registers in the recommended range.
- P: Test strip remains "white" even after sanitizer has been added.
- S: Sanitizer level could be extremely high. It can bleach the reagents on the test strip and give a false reading. Remove vessel cover and activate jets and air control. Allow jets to run for 30 minutes. Test water to see if desired level has been reached.

High Sanitizer Reading

- P: Too much chlorine or bromine added or dispensed into the vessel.
- S: Remove vessel cover and activate jets and air control. Allow jets to run for 30 minutes. Test water to see if desired level has been reached.

Eye or Skin Irritation

- P: Contaminants or excessive amount of chloramines/bromamines in water.
- S: Treat water with Spa Shock. Adjust sanitizer level.
- P: pH is low.
- S: Adjust as needed.

Corrosion of Metal

- P: Low pH.
- S: Adjust pH with pH and Alkalinity Increase.
- S: Adjust pH with pH Increaser.

Green Water/Algae

- P: Low sanitizer level or high pH.
- S: Adjust pH, shock and/or adjust bromine or chlorine as necessary.

Erratic pH

- P: Alkalinity and/or calcium hardness are too low causing pH "bounce".
- S: Test and adjust alkalinity and/or calcium hardness to bring them into the ideal range.



ATV OWNER'S PROTECTION PLAN

What the Aquatic Training Vessels™ (ATV) Limited Warranty Covers

Marquis Corp. (herein after referred to as "Manufacturer") warrants that our products will be free from defects in materials and workmanship for the term set forth exclusively in this warranty. Accessories purchased from Manufacturer or a Manufacturer's authorized agent, and added to the ATV after manufacture of the ATV, are not covered under this warranty but may have other warranties. Refer to owner's manual for proper use, maintenance and installation of your ATV. The Limited Warranty, provided by this Owner's Protection Plan, is made only to the original purchaser of the ATV and is not transferable.

The reinforced structure is warranted for 10 years not to leak. Fittings and attachments are not included.

The bonded polymer resin surface has a 7-year surface warranty against blisters, cracks and delamination. The use of a non-DuraCover® will void this warranty.

Plumbing and fittings are warranted against water loss for five years. Warranty coverage does not include gaskets or seals.

Electronic equipment is warranted against defects in materials and workmanship for five years. Equipment includes PC boards, pumps, control panels, heater and heat sensors. Audio system and associated components have a separate warranty.

The synthetic skirt exterior are warranted against cracking and peeling for five years.

The ozonator is warranted against defects in material and workmanship for two years.

If equipped; LED lights, remote controls, valves, ATV cover, jet inserts, Wi-Fi transceiver, fountains, Resistance & Rowing components, and overlays are covered for one year. These parts do not qualify for labor coverage under this warranty.

Fuses, non-LED lights, filter, filter lid, rubber straps, exercise harnesses and other items not specifically mentioned in this warranty are warranted to be free from defects in materials and workmanship at time of delivery. These parts do not qualify for labor coverage under this warranty.

Term of the Aquatic Training Vessels (ATV) Limited Warranty

The term of your warranty begins on the date the product is sold to you and continues for the term described in this warranty for each component.

What You Should Do if You Experience a Problem

Unless otherwise designated in writing by Manufacturer, Manufacturer or its agent are the only parties authorized to perform warranty service on Aquatic Training Vessels. Upon experiencing a problem, please contact your authorized ATV dealer.

You will be asked to provide the following information when requesting warranty service: your name, address and contact information; serial number; a description of your ATV and a description of the problem. You may be required to provide proof of purchase of your ATV prior to receiving warranty service.



ATV OWNER'S PROTECTION PLAN

What Manufacturer Will Do in the Event of a Problem

Manufacturer agrees to repair any plumbing or surface defects. Manufacturer also agrees to repair or furnish a replacement for any factory-installed component covered under this warranty which, upon test and examination by Manufacturer, proves to have manufacturing defects. All materials for examination must be returned to Manufacturer freight prepaid.

Manufacturer will provide parts and labor (according to predetermined schedule) at no charge to repair or replace components that fail due to manufacturing defects. Responding authorized agent may charge additional service and travel fees.

In the event that Manufacturer or its agent determines that your problem can be addressed by providing a replacement part to you for installation in your ATV, a replacement part will be provided to you at no charge when you return the defective part. All replacement parts assume the original warranty status of the ATV into which they are installed, including time remaining on warranty, and have no separate or independent warranty of any kind.

To facilitate repairs, Manufacturer or its agent may require access to ATV equipment. It is your responsibility to provide unencumbered access.

What the Aquatic Training Vessels Limited Warranty Does Not Cover

No warranty will apply to any ATV that has been (i) modified, altered or adapted without Manufacturer's written consent; (ii) maltreated or used in a manner other than in accordance with the ATV Owner's Manual; (iii) repaired by any third party not authorized by Manufacturer; (iv) improperly installed by any party; (v) used with equipment not covered by this warranty, to the extent that problems are attributable to such use; (vi) relocated to the extent that problems are attributable to the relocation; and (vii) located on any support surface other than that specified in the ATV printed instructions. Refer to instructions in the owner's manual for proper use, maintenance and installation of your ATV.

Other items not included in this warranty are freight expenses; labor and material cost associated with removal and or replacement of the ATV; damage to or fading of the ATV surface and staining of the ATV surface or equipment caused by impact, scratching, abrasive or corrosive cleaners; damage due to extreme water temperatures outside the range of 32°F to 120°F (0°C to 49°C) under any circumstances; or damage to the ATV surface or equipment caused by acts of nature, including wind and power surges. Damage to the ATV surface and fittings caused by leaving the ATV uncovered and empty of water with direct exposure to sunlight may cause solar heat distress and also invalidates this warranty.

Other costs not associated with the direct repair of the ATV, such as phone charges and missed work are not included in this warranty. In the event that the Manufacturer's serial number tag on the ATV has been removed or tampered with, the warranty will be void. Customer may not dismantle ATV's, and any attempt to dismantle systems, other than described herein, constitutes a modification or alteration of the ATV, which voids the applicable warranty.

LIMITATIONS

Your sole and exclusive remedy and Manufacturer's entire liability in connection with manufacture and sales of its ATV products is repair or replacement (at Manufacturer's option) of a defective part, as expressed in the limited warranty. Any other express or implied representation or warranty, including the implied warranties of merchantability and of fitness for a particular purpose as well as non-infringement, is excluded to the maximum extent permitted by law.

Except as may be required by applicable law, Manufacturer shall not be liable for injury, loss, or damage to person or property, however arising, in connection with manufacture or sale of its ATV products. This includes indirect, punitive, special, incidental, or consequential damages (including but not limited to loss of use) whether the claim for such injury, loss, or damage is based on breach of contract, breach of warranty, or tort, even if Manufacturer has previously been advised of the possibility of such damages.



ATV OWNER'S PROTECTION PLAN

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

AUDIO SYSTEM ONE YEAR LIMITED WARRANTY

Marquis Corp., herein referred to as "Manufacturer" warrants to the original retail purchaser, the components of the audio system will be free from defects in material and workmanship for a period of one year from date of purchase. One year coverage includes parts and labor. Labor is based on a predetermined schedule. The audio system and ATV Limited Warranty is made only to the original purchaser of the ATV and is not transferable.

In no event shall any obligation of Manufacturer extend beyond the original period of any applicable warranty determined according to the effective warranty date of the original purchaser.

PERFORMANCE OF WARRANTY

Manufacturer agrees to repair or furnish a replacement for any defects in the audio system material or workmanship which upon test and examination by Manufacturer proves defective. Audio components including radio, Bluetooth, speakers, subwoofer and power supply are warranted against defects in material and workmanship for one year parts and labor. Water intrusion of any kind is not covered. All materials for examination must be returned to Manufacturer freight prepaid.

Your authorized Dealer reserves the right to assess travel charges for service calls.

INVALIDATION OF WARRANTY

This warranty is void if the audio system has been subjected to alteration, misuse or abuse or if any repairs on the audio system are performed or attempted by anyone other than an authorized Manufacturer service center. Alteration is defined as any component change, electrical conversion or the addition of any alternative sound system components which contribute to component failure.

Misuse and abuse shall include without limitation any external power source attached to the audio system other than approved source, or use in a particular manner that the audio system was not designed, or operation of the audio system other than in accordance with Manufacturer printed instruction (located in the Owner's Manual) that leads to any component failure. Under no circumstances shall Manufacturer or any of its representatives be held liable for injury to any person or damage to any property, however arising. Other costs not associated to the direct repair of the ATV, such as phone charges, missed work, and damage caused to the audio system beyond Manufacturer control, are not included in this warranty. Items beyond Manufacturer control include but are not limited to damage resulting from: improper connections, accidents, failure to follow procedures defined in the Owner's Manual, damaged from excessive wattage to the system, lightning, extreme temperatures or any other natural occurrences.

IMPORTANT: Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, therefore the limitation or exclusions may not apply to you.

DISCLAIMERS

There are no additional warranties, express or implied, which extend beyond the terms of this limited warranty. Manufacturer makes no warranty of merchantability of the goods or the fitness of the goods for a particular purpose.

No other person or entity has been authorized to make any warranty, representation or promise of performance not included in this express written warranty, and Manufacturer shall not be bound by any such additional warranty, representation or promise.

This warranty gives you specific legal rights. You may also have other rights that may vary from state to state.