



by GPM Industries, Inc.

2000 SERIES

INSTALLATION & OPERATION MANUAL

Revised August, 1995

IMPORTANT SAFETY INSTRUCTIONS

1. READ AND FOLLOW ALL INSTRUCTIONS.

2. **DANGER** - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
3. Connect only to a grounded grounding type receptacle.
4. Do not bury cord.
5. **WARNING** - To reduce risk of electric shock, fire, and injury, install with non-metallic pipe and connections to tub and at least five (5) feet (1.52m) from metal enclosure of assembly to inside wall of spa.
6. **DANGER** - To reduce a risk of injury to persons, do not remove suction grate or cover.
7. A pressure wire connector is provided in the control box inside the unit to permit connection of a minimum No. 8 AWG (8.4 mm²) solid copper bonding conductor between this point and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5m) of the unit as needed to comply with local requirements.
8. Install to provide drainage of compartment for electrical components.
9. Install with nonmetallic pipe connections to tub and at least 5 feet from metal enclosure of assembly to inside wall of tub.
10. **DANGER - RISK OF ELECTRICAL SHOCK.** Install at least 5 feet from all metal surfaces.
11. **DANGER - RISK OF ELECTRICAL SHOCK.** Do not permit any electric appliance, such as a light, telephone, radio or television, within 5 feet (1.52 m) of a spa or hot tub.
12. Those who have heart disease, high blood pressure, diabetes, or other physical conditions should consult their doctor before using the spa.
13. Pregnancy is a condition which should be taken into consideration before using the spa. The approval of a physician is recommended.
14. Those who are under the influence of alcohol, drugs, tranquilizers, etc., should not be allowed to use the spa.
15. The maximum recommended water temperature is 104 degrees. Excessive Temperatures Can Be Dangerous! Use your spa for brief periods only. A periodic break to cool off is recommended if the spa is to be used for extended periods of time. Prolonged immersion in hot water may cause hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 degrees F. The symptoms include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include (1) unawareness of impending hazard, (2) failure to perceive heat, (3) failure to recognize the need to exit the spa, (4) fetal damage in pregnant women, and (5) unconsciousness and danger of drowning.
WARNING - The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tubs and spas.
16. Small children should be supervised, and preferably some sort of fence around the spa or a locked spa area is recommended for their safety.
17. Never Use the Spa Alone!
18. Never dive or jump into a spa. A spa is intended for sitting and relaxing only. Enter and exit slowly, since the surface of the spa is slippery.
19. It is recommended that you keep important phone numbers nearby in the event of an emergency.
20. Electrical plugs and switches should not be accessible from inside the spa. Always have a licensed electrician make the necessary electrical connections.
21. **WARNING---RISK OF CHILD DROWNING.** Extreme Caution Must Be Exercised To Prevent Unauthorized Access By Children. To Avoid Accidents, Ensure Children Cannot Use A Spa Unless They Are Supervised At All Times.
22. To Reduce The Risk Of Injury:
 - A. The Water In A Spa Should Never Exceed 40°C (104°F). Water Temperatures Between 38°C (100°F) And 40°C (104°F) Are Considered Safe For A Healthy Adult. Lower Water Temperatures Are Recommended For Extended Use (Exceeding 10--15 Minutes) And For Young Children.
 - B. Since Excessive Water Temperature Has A High Potential For Causing Fetal Damage During The Early Months Of Pregnancy, Pregnant Or Possibly Pregnant Women Should Limit Spa Water Temperatures To 38° C (100°F).
 - C. Before Entering A Spa, The User Should Measure The Water Temperature With An Accurate Thermometer Since The Tolerance Of Water Temperature - Regulating Devices May Vary As Much As 3°C (5°F).
 - D. The Use Of Alcohol, Drugs, Or Medication Before Or During Spa Or Hot Tub Use May Lead To Unconsciousness With The Possibility Of Drowning.
 - E. Persons Suffering From Obesity Or With A Medical History Of Heart Disease, Low Or High Blood Pressure, Circulatory System Problems, Or Diabetes Should Consult A Physician Before Using A Spa Or Hot Tub.
 - F. Persons Using Medication Should Consult A Physician Before Using A Spa Or Hot Tub Since Some Medication May Induce Drowsiness While Other Medication May Affect Heart Rate, Blood Pressure, And Circulation.
 - G. The Electrical Supply For This Product Must Include A Suitably Rated Switch Or Circuit Breaker To Open All Ungrounded Supply Conductors To Comply With Section 422-20 of The National Electric Code ANSI/NFPA 70-1987. The Disconnecting Means Must Be Readily Accessible To The Tub Occupant But Installed At Least 5 Ft From Tub Water.

23. SAVE THESE INSTRUCTIONS.

INSTALLATION

Location

Your Great Lakes Spa® was designed to be used either indoors or outdoors. If you intend to use your spa indoors, remember that water may be splashed out of the spa, particularly as people exit the spa, so you will want to design your room accordingly. Humidity will not be a problem if the spa is used for shorter periods of time and if the cover is kept on the spa when not in use.

For outdoor use of your spa, be sure to keep in mind natural elements such as wind, view, falling leaves, etc. You will want to locate your spa in such a way as to provide maximum enjoyment. In either case it is recommended that you locate your spa in either a locked room or fenced area to prevent access to the spa by children.

Site Preparation

Your portable Great Lakes Spa® must be placed on a flat surface that supports the entire spa. Most sites such as patios, decks, rooms, etc. are structurally sound and will support a spa since the weight is distributed over a wide area. However, it is always a good idea to have your dealer or a contractor review your proposed site to assure that there are no support problems.

Spa Setup

Place the spa in the desired location. It must be located in close proximity to a 120volt, 15 ampere grounding type receptacle. Under no circumstances

should an extension cord be used. An extension cord can create an electrical hazard. Check to be sure that all fittings to the support system are tight, including the drain faucet (fittings may loosen during shipping). Remember, when tightening fittings, **HAND TIGHTEN ONLY!**

Prior to filling the spa with water, be sure that the push/pull valves to the support system are pulled out in the open position. You can now fill your spa with a garden hose to 2" above the top of the skim/filter. Always fill your spa with hard (not softened) water. NOTE: Do not overfill. After the spa is filled, remove the garden hose and check the equipment module area for water leaks. If there is water dripping, it is probably a loose connection and you should re-check the tightness of the fittings and placement of the rubber "O"-rings.

STARTUP

Refer to the Spa Tub Control System Manual for initial startup and operating instructions. After filling the spa with cold water, allow 10-16 hours for the water to heat up.

CONTROLS/JETS

Air Control: Your spa comes equipped with an air control that allows air to flow through the jets when the pump is on high speed. Simply turn the air control to the "MAX" position while the pump is on high speed and you will see the jets produce added agitation. Turning the control to "MIN" will return the jets to water-only operation.

Jet Options: Your Great Lakes Spa comes equipped with a variety of jets. The Magna Series jets allow you to control the amount of waterflow by rotating the trim ring around the jet. Turning the trim ring clockwise will reduce the water flow from the jet and turning it counterclockwise will increase the waterflow.

Ozone Jet : One of the small jets is an "ozone jet" which allows ozone to be drawn into your spa when your spa is equipped with an ozone unit. With an ozonator installed, there will be a steady stream of small air bubbles coming from the ozone jet whenever the spa pump is in operation. Your spa is manufactured "ozone-ready", which means that you can easily hook up an ozone unit to your spa. See your dealer for optional ozone installation.

SPA CARE & MAINTENANCE

Draining Your Spa

Every 3-4 months you should change the water in your spa. This is made easy by way of the drain faucet which is included in your Great Lakes Spa® and is located in the equipment module area. Simply attach a garden hose to the faucet and run the hose to where you want to drain the water. When the water level reaches the suction drain in the bottom of the spa, close the drain faucet. The remaining water in the spa can be scooped out and you are now ready to clean the acrylic surface.

Acrylic Shell Care

Your Great Lakes Spa® is manufactured with Lucite "XL" Acrylic, and the quality finish is very durable and easy to maintain. When the spa is empty, wipe the spa shell with warm water and a sponge. Do not use an abrasive brush or cleaning agent as it will scratch the acrylic finish. If you have a stubborn dirt or scum mark, use an acrylic spa cleaner which is available at your local spa dealership. Also, do not use detergent or soap to clean the spa as the residue will remain on the surface and appear in the water upon refilling and cause foaming.

Thermal Spa Cover

It is important that you properly care for your spa cover. Do not sit or stand on the cover as it will break with weight of this type. Do not let snow build up on your cover. Lock-down tabs are included with your cover, and if your spa is outdoors it is important that you use the tie down tabs to prevent the wind from lifting the cover off your spa. Periodically clean your cover as described in the maintenance and cleaning instructions provided with the cover. When handling your cover, take care not to drag it over rough surfaces which will scuff or tear the fabric. Always lift by the handles.

Cabinet Care

Your portable Great Lakes Spa® cabinet has been manufactured with Western Red Cedar. Your cabinet has been water-sealed at the factory, but will naturally weather over time, especially when located outdoors.

If you wish to minimize the weathering effect, you should treat your spa with an exterior penetrating oil-based stain. Your local paint supply store can assist you in various options you have in wood treatment.

Filter Maintenance

Your Great Lakes Spa® has been equipped with a top-loading skim/filter for ease of cleaning and maintenance. Every two weeks you should clean your filter which has picked up hair, body oils and other debris that may have come into the spa water.

To clean your filter, turn the equipment module off. Remove the basket and floating weir by turning it counter clockwise until the flat sides of the basket line up with the tabs on the filter canister. The basket/weir can now be removed by lifting it straight up to gain access to the filter cartridge.

It is recommended that you have a second filter so that while one is being cleaned the other can be in the spa. If you have a clean second filter, place it back into the filter housing now. Replace the basket/weir making sure the flat sides of the basket line up with the tabs on the filter. Turn the basket/weir clockwise to keep it in place.

WATER CARE

Chemicals

Due to the warm temperatures in your spa, it is important to properly test and maintain your spa water for health and appearance reasons. Chemical imbalance can cause skin irritations and dirty water is both unsightly and undesirable to soak in. With a minimum of effort you can have sparkling clean water for your constant enjoyment. This can be attained by the use of spa chemicals and with the assistance of a spa ozonator. Consult your dealer to set up a proper water treatment program.

Ozone

The optional ozonator is a unit which contains a special ultra-violet light. When the unit is activated, ozone is generated which is drawn into the spa via the air jet. The ozone gas appears as tiny bubbles which come from the ozone jet.

The ozone coming into your spa purifies the water without the skin irritation and chemical smell which can occur with the use of conventional chemicals. The ozone unit operates when installed according to the instructions provided with the ozone unit and when the equipment module is in the filtering mode.

WINTERIZING

If you live in an area where the danger of freezing exists, you must take extra precautions to insure that your spa will operate properly. If you plan to operate your spa throughout the winter, be sure that the thermostat is set to keep the water warm. In addition, in freezing temperatures it is recommended that more

frequent filtration cycles be selected. If you intend on closing down your spa for the winter, you should follow the winterizing procedures listed below:

1. Drain the spa as explained in the "Draining Your Spa" section.
2. Be sure that all water is removed from the spa.
3. Unplug the unit and place the electrical cord inside the cabinet.
4. Disconnect the unions from the equipment module to allow the water in the spa lines to drain.
5. Remove the filter element from the filter housing and see that the filter housing is dry. If the water is left in the filter housing it will freeze and crack the housing to crack.
6. Cover your spa with your spa cover and be sure it is locked in place.

GPM INDUSTRIES, INC. / 2000 SERIES SPAS LIMITED WARRANTY

GPM Industries, Inc. ("GPM") extends this Limited Warranty solely to the original purchaser of any GPM 2000 Series Portable Spa manufactured after September 1, 1995 and installed in the U.S.A.

FIVE YEAR SHELL STRUCTURE WARRANTY

GPM warrants the spa shell against water loss due to defects in the spa shell for a period of five years from the date of purchase.

TWO YEAR COMPONENTS /SURFACE/LABOR WARRANTY

GPM warrants the mechanical equipment, plumbing, fittings and controls against defects in workmanship for a period of two years from the date of purchase. There will be no charge for replacement parts or dealer service of the problem during the two year period. GPM warrants the interior surface not to blister or delaminate for a period of two years from the date of purchase.

EXTENT OF WARRANTY

This warranty extends only to the original consumer purchaser of the GPM 2000 Series Spa. Coverage shall commence as of the original date of purchase and the duration of such coverage shall not extend for any reason whatsoever beyond the stated time periods. This warranty terminates upon transfer of ownership.

WARRANTY PERFORMANCE

In the event of any malfunction or defect covered by this warranty, contact the Authorized GPM Dealer from which you purchased your spa. All service work must be performed by an authorized GPM Dealer or an authorized agent of GPM. GPM requires proof of purchase of the GPM Spa to obtain warranty assistance. In addition, GPM reserves the right to inspect or designate a person to inspect any part that is claimed to be defective and covered by warranty. GPM reserves the right to choose as its option repair of the problem or a replacement of the spa shell with one of equal or similar value. Only GPM has the authority to authorize the replacement of a spa shell.

ACTS INVALIDATING WARRANTY

This warranty is void if this GPM Spa has been subjected to alteration, misuse or abuse, or if any repairs on the spa are attempted by anyone other than an authorized representative of GPM. Alteration shall include any component or plumbing change, electrical conversion, or the addition of any non-approved sanitation or water purification device or heating system which contributes to a component or unit failure or unsafe operation system. Use of the spa in an application for which it is not designed will void this warranty. This includes but is not limited to damage caused by operation of the spa at water temperatures outside the range of 32 degrees F. and 110 degrees F., damage caused by dirty, clogged or calcified filter cartridges, damage caused by a defective Support System or other defective components, damage to the spa surface caused by harsh chemicals which are not recommended by the acrylic manufacturer, damage caused by allowing undissolved spa sanitizing chemicals to lie on the spa surface, damage to components or spa surface caused by improper water chemistry maintenance, damage caused to the spa by leaving it uncovered in direct sunlight and damage to the spa surface caused by movement of the product.

DISCLAIMERS

Any implied warranties arising out of an original purchaser's purchase of a GPM Series 2000 Spa, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, are limited in duration equal to the duration of the applicable warranty stated above. GPM shall not be liable for loss of use of the GPM Spa or other incidental or consequential costs, expenses or damage, which may include but are not limited to, the removal of or reinstallation of a wall, deck or other fixture, costs of shipping, applicable taxes, or the payment of any costs or expenses of disassembly, removal or reinstallation of the product or any part. Under no circumstances shall GPM or any of its representatives be held liable for injury to any person or damage to any property, however arising. Some states do not allow limitation on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so these limitations or exclusions may not apply to you. These warranties give you specific legal rights, and you may also have other rights which vary from state to state. No distributor, salesperson, dealer, retailer, or other representative of GPM has the authority to alter or change these warranties either orally or in writing.