

User's Manual of Massage Hot Tub (SPA)

**Important Safety Instruction – DO NOT DISCARD
POTENTIAL RISK OF PERSONAL INJURY
OR HEALTH HAZARDS MAY BE ASSOCIATED
WITH USE OF THE EQUIPMENT
PLEASE READ AND FOLLOW ALL WARNINGS
CAREFULLY!!**

DANGER – AVOID RISK OF DROWNING OR OTHER INJURIES TO CHILDREN:

Use extreme caution to prevent unauthorized access by children.

Avoid accidents by only allowing children in the spa under adult supervision at all times.

To reduce the risk of injury, set water temperature to a setting for young children as they are especially sensitive to hot water.

Always lock the child resistant locks after using the spa for your children's safety. The Spa is equipped with locks that meet the standards for safe covers.

Test water temperature before allowing children to enter the spa.

Remind children that wet surfaces are slippery when wet.

Monitor children's safety while entering and exiting the spa.

Do not allow children to climb onto or sit on top of spa cover.

Do not allow children to use the spa without adult supervision.

To avoid risk of electrocution:

Connect only to a grounded 220V outlet.

Only use a el supply with RCD residual current device outlet.(It is responsibility of the owner – not supplied with the spa)

Do not bury your power cord. A buried power cord may result in death or serious injury due to electrocution if direct burial-type cable is not used, or if improper digging occurs.

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. 10 AWG (2.6 diameter) 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 of the spa. If the spa is located on a concrete pad, the reinforced steel should also be bonded to the ground terminal.

WARNING:

Replace any damaged cord immediately. Failure to do so could result in injury or death.

Always test the RCD outlet before entering the spa. (Failure to wait 30 minutes before resetting the RCD may cause the spa's power indicator (on control panel) to blink. If this happens, just repeat the RCD test procedure after 30 minutes.

Do not permit any electrical appliances (light, telephone, radio, television) within 5 feet of the spa. Failure to maintain a safe distance from the spa may result in serious injury or death.

Be sure to install your spa with drainage away from the electrical compartment and from all electrical components.

Use a licensed electrician to assure your spa is connected to the power supply correctly.

Disconnect the spa from the power supply before draining the spa or servicing the electrical components.

Do not use the spa with the equipment compartment door open.

Do not use an extension cord to connect the spa to its power source. Use of an extension cord could cause a voltage drop which will overheat and damage the jet pump motors.

Do not attempt to open the electrical control box as there are no user serviceable parts inside.

Always remember to be careful when entering or exiting the spa due to slippery surfaces.

AVOID HEALTH AND MEDICAL RISKS:

Do NOT use drugs, alcohol or medication before or during use of the spa as this may lead to unconsciousness and the possibility of drowning.

Please consult your physician before using your spa if you take medications. Some medications may cause drowsiness, affect heart rates, blood pressure, and blood circulation.

Pregnant women should consult their physician before using a spa.

Persons with a medical history of heart disease, blood pressure, circulatory system problems, diabetes, or obesity should consult a physician before using the spa.

AVOID UNCLEAN WATER RISKS:

Keep the water clean and sanitized with correct chemical care (available at any pool supply store).

Recommended pH levels for spa use are as follows:

Free Available Chlorine (FAC): 3.0 - 5.0 ppm

Water pH: 7.4 - 7.6

Total Alkalinity: 125 – 150 ppm

Calcium Hardness: 120 – 200 ppm

Clean the filter cartridges WEEKLY to remove debris, hair, body-fat and mineral build-up that could affect the performance of the hydro-massage jets, limiting the flow or tripping the high limit thermostat (which will turn off the entire spa).

The Filter must ONLY be cleaned with water, do not use any chemical cleaners; a simple hose pipe is the best.

AVOID THE RISK OF HYPERTHERMIA

Prolonged immersion in hot water can cause Hyperthermia, a dangerous condition that occurs when the internal temperature of the body reaches a level above normal (98.6°F or 37°C).

Common symptoms are (but not limited to):

- Unaware of impending hazard.
- Failure to perceive heat.
- Failure to recognize the need to exit the spa.
- Physically unable to exit the spa.
- Fatal damage in pregnant women.
- Unconsciousness resulting in drowning.

WARNING: Extended lengths of time or the use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

Never allow spa temperatures to exceed 104°F or 40°C. Water temperatures between 100°F and 104°F are considered safe for healthy adults. Lower temperatures are recommended for use of longer than 10 minutes or for young children.

Pregnant women should consult a physician to verify the temperature of the spa water.

Important Spa Instructions

(We strongly suggest you read and apply)

ALWAYS use and lock the cover when the spa is not in use, whether full or empty.

Follow the Spa Care and Maintenance recommendations in this manual.

Use only approved accessories and recommended spa chemicals and cleaners.

Do NOT leave the Spa exposed to the sun without water or cover in place. Exposure to direct sunlight may cause distress to the shell.

Do NOT roll or slide the spa on its side. This will damage the siding.

Do NOT lift or drag the cover by the lock straps.

DO NOT attempt to open the electrical control box. Opening the electrical box by the spa owner will VOID the Warranty. If there is an operational problem, carefully go through the steps outlined in the “Troubleshooting” section of this manual. If you are not able to resolve the problem, contact our Technical department. Problems can be easily diagnosed over the phone or by an authorized service technician.

Installation Instructions

Site Preparation:

Always put your spa on a structurally sound, level surface.

Be sure the location you choose will support the heavy weight of a full spa.

Keep water drainage away from the Equipment Compartment (which houses all electrical components).

Allowing water into the equipment compartment may cause damage to the electronics, or may result in tripping the circuit breaker on your house electric panel.

Leave easy access to your circuit breakers.

Leave access to the equipment compartments for spa care and maintenance.

Outdoor, Deck and Patio Installation:

Be sure to have a SOLID FOUNDATION to support the weight of your new spa.

Structural damage to the spa as a result of incorrect installation or placement on inadequate foundation is not covered under the spa's limited warranty.

Be sure your deck can support the weight of your spa. Know your deck's maximum load capacity.

Consult a qualified building contractor or structural engineer.

NOTES:

Installation of the spa is the responsibility of the owner.

A concrete slab is best for long term use.

Other foundations are acceptable as long as a level base is prepared prior to installation.

Examples to a concrete slab are Dry Mix, Brick Surfaces and Wood Decking specifically designed for foundations for spas without gazebos or other accessories.

It is the homeowner's responsibility to provide a suitable, level foundation for your spa. Dry Mix is an easy substitute for concrete. Consult your preferred home improvement or construction store for more information.

Do NOT put your spa on a soft surface such as sand, loose soil or grass. Any surface that will settle unevenly will put undue pressure and tension on the spa. This could eventually lead to distortion which would VOID your warranty. Also, placing a spa on grass or sand will increase the amount of debris brought into the spa.

Electrical Installation

Installation is the responsibility of the owner.

WARNING: This product must be installed by a qualified electrician. Proper grounding must be used. The factory bears no responsibility for any losses caused by poor grounding. The wire connection should be checked prior to activation. Any modification to instructions or installation by someone other than a qualified electrician of this spa will VOID all warranties and releases the manufacturer of any responsibilities for electrical issues.

If you require a power outlet to be installed, all work should be done by an EXPERIENCED, LICENSED ELECTRICIAN IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODES.

NO POWER OUTLETS, SWITCHES, LAMP HOLDERS ETC. ARE TO BE IN THE EXCLUSION ZONE (5 feet) unless an electrician has confirmed that they meet code requirements.

DEDICATED POWER OUTLET REQUIRED. Meaning ONLY THE SPA OPERATES FROM THAT OUTLET. This prevents overloading of the circuit and subsequent tripping of circuit breakers and fuses.

YOUR ELECTRICIAN MUST INSTALL RCD PROTECTION FOR THE POWER OUTLET FOR YOUR SPA. The spa is unsafe without the RCD.

ELECTRICAL PRECAUTIONS

TEST the RCD before using the spa on a regular basis.

NEVER run the spa on an extension cord.

WATER DAMAGE to the RCD outlet will occur if it is exposed to rain water, mist, frost, garden hoses, sprinklers, etc. This is NOT covered by warranty. It is extremely important that outdoor installation of RCD outlet is protected from rain and moisture.

REMOVAL OF THE RCD OUTLET MAKES THE SPA UNSAFE. The spa is only safe if it has a RCD protected power outlet.

If the owner sells the spa or house with the spa, it is the owner's responsibility to let the new owner know of the electrical requirements of the Spa.

An electrician MUST NOT make any electrical connections inside the Spa Equipment Compartment.

Start-up and Refill Procedures

THESE INSTRUCTIONS MUST BE READ AND FOLLOWED EXACTLY TO ENSURE A SUCCESSFUL START-UP OR REFILL

Your Spa has been thoroughly tested during the manufacturing process to ensure reliability and long term

customer satisfaction. A small amount of water may have remained in the plumbing after testing and as a result, may have spotted the spa shell or the spa siding prior to delivery. Before filling the spa, wipe the spa shell clean with a soft rag.

CAUTION

Do NOT fill the spa with hot water, as tripping of the high-limit thermostat may result.

Do NOT connect power to an empty spa. Power to the spa automatically activates critical components within the spa, such as the Controls, Heater, Circulation Pump and other systems. If power is supplied to these components prior to the spa being filled with water, the components will be damaged and this may result in a NON-WARRANTY COMPONENT FAILURE.

Do not use your spa after filling until all of the steps listed below are completed.

1. Close the drain and fill the spa with water. The water level of your Spa should be maintained at a level just above the top jets.

IMPORTANT: The manufacturer does not recommend the spa to be filled with “softened” water as this may damage the spa’s equipment. Once the spa has been filled with water and the equipment compartment doors are secured, power then may be applied to the spa.

2. Adjust Total Alkalinity (TA) to 125 ppm, Calcium Hardness (CH) to 150 ppm, then the water pH to between 7.2 and 7.4.

3. **OPERATION NOTE:** Adjusting the Total Alkalinity (TA) as the first step is important, as out-of-balance TA will affect your ability to adjust the pH correctly and will prevent the sanitizer from operating effectively.

4. Set the temperature control to the desired temperature, we suggest a maximum of 37-40 Degrees C, or 101 F, then place the vinyl cover on the spa and allow the water temperature to stabilize (approximately 12-24 hours). Make sure you secure the cover in place using the cover locks. Periodically check the spa water temperature.

DRAINING THE WATER FROM YOUR SPA:

Disconnect the spa from the power supply by unplugging from the outlet.

The main drain valve is located in the compartment below the control panel. Attach a hose or pipe with proper adaptor to the drain pipe. The other end of the hose (pipe) has to be placed in appropriate draining area.

NOTE: Be sure to keep the hose outlet away from the electrical components and the foundation area to avoid flooding or electrocution. ALSO spa water contains sanitizers and may harm plants and grass.

Open the valve by turning the knob counter clockwise. The spa will drain by gravitational flow. The spa will drain almost completely, including the jet pump and heating system through the main drain valve. Any remaining water in the plumbing equipment after draining will only need to be removed if the spa is being winterized.

When empty, inspect the spa shell and clean as required.

Close the drain valve and refill the spa BEFORE restoring power.

IMPORTANT: Always clean the filter each time the spa is drained for cleaning.

Filter System Remove the top cap of the filter compartment (it is placed in the compartment on the right hand side of the spa, when you are facing the control panel). Pull out the used filter and replace with new or cleaned filter.

WARNING: The frequency and duration of use, and the number of occupants all contribute to determining the appropriate time between filter cleanings. Failure to maintain the filters in a clean, unobstructed manner will result in reduced water flow through the heater assembly resulting in possible heater damage. Any damage to the spa caused as a result of poor maintenance (stated under misuse or abuse in the Spa Limited Warranty), will VOID your Spa warranty.

FILTER CLEANING INSTRUCTIONS Simply soak the filter in soapy warm water, then place the filter on a clean surface and then, using a garden hose, spray until clean. It may be necessary to rotate the filter while spraying to remove any debris lodged between the filter pleats. **WARNING:** Do NOT use the spa with the filter removed.

Care of the spa pillows The spa pillows are positioned above the water level to minimize the bleaching effects of chlorinated water and other chemicals.

Clean the spa pillows whenever the spa shell is being cleaned. Body oils can be removed with a mild soap and water solution. ALWAYS rinse off the spa pillows thoroughly to remove any soap residue.

Remove the spa pillows if the spa is not going to be used for a long period of time, if the spa is winterized, or when the spa water is being super-chlorinated (do not replace until next use).

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REMOVAL & REPLACEMENT OF SPA PILLOWS is a simple process. The pillows are designed to just simply set in the indentation above the seats.

Care of the spa shell Most household chemicals are harmful to your spa's shell. Cleaning of the surface should only be done with a *non-abrasive* cleaner. Sodium bicarbonate (baking soda) can also be used for minor surface cleaning. A soft rag or a nylon scrubber should easily remove most dirt. Always thoroughly rinse off any spa shell cleaning agent with fresh water. Baking Soda and a soft cloth cleans the waterline to remove any body oil or waterline ring. The use of a spa polish is recommended after the spa shell has been dried. **IMPORTANT:** Some surface cleaners contain eye and skin irritants. Keep all cleaners out of the reach of children and use care when applying.

Vacation Care Instruction Short Time Period (5-7days)

Adjust the pH per instructions with your pool kit provided by your local pool supply store for 5-7days.

Sanitize the water by following shock procedures with your pool kit.

Upon your return, sanitize the water with another shock procedure and using the pH balance.

Long Time Period (7-14days)

At least one day before you leave, set the temperature to its lowest level 80°F (27°C). Sodium dichloride chorine maintains a good level of effectiveness in 80°F water temperature vs. hot water 38-40°C (101-104°F).

Adjust the pH per instructions with your pool kit provided by your local pool supply store for 5-14 days.

Sanitize the water by following shock procedures with your pool kit.

Upon your return, sanitize the water with another shock procedure.

Return the set temperature to its original setting. The spa water will be safe for you to use once the Free Available Chlorine residual level has dropped below 5.0 ppm.

NOTE: If you are not using your spa for a longer period of time than 14 days, and you do not have an outside maintenance service or neighbour to maintain your spa, then it is recommended that you drain or winterize your spa.

Winterizing the spa If you are not using your spa in severely cold weather, you should drain the spa to avoid accidental freezing due to a power or equipment failure. ****A Shop Vac is required. ****

Refer to **DRAINING PROCEDURES** to drain your spa.

It is important to sponge out any residual water from inside the spa and the recesses of the filter compartments. Wipe all surfaces dry.

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Attach the vacuum's hose to the output (blower) side of a shop vac.

- Place the end of the vacuum hose into the filter opening.
- Turn on the blower and allow it to blow out any water remaining in the plumbing lines (approximately 3 to 5 minutes).
- Turn the Jet lever to the second position and allow that system to purge.

Allow the blower to run for 3 to 5 minutes in order to be sure the plumbing has been completely purged of any remaining water.

Attach the vacuum's hose to the vacuum side of a shop vac.

- Remove water from the jet openings. You may notice suction coming from another jet, if so, block the other jet with a rag. This will help remove the water trapped deep inside the main line.
- Use the shop vac to pull any remaining water out of the filter compartment.
- Place the shop vac hose over the main drain outlet and allow it to draw any remaining water from the spa's internal plumbing (approx. 3-5 minutes).

SPA LIMITED WARRANTY

FIVE YEAR Structural WARRANTY – DMF UK LTD warrants that structure of the spa shell will be free from water loss due to structural failure for five years.

TWO YEAR COMPONENT WARRANTY - Pumps, Motor, and Jets, against defects in materials and workmanship.

ONE YEAR COMPONENT WARRANTY - the Electronic Components, Ozonator, Light, Heater, and Air Valves against defects in materials and workmanship for one year. The following applies to all of the warranties listed above:

EXTENT OF WARRANTY This warranty extends only to the original consumer purchaser of the Spa when

purchased and originally installed. This warranty begins on your delivery date of the spa. This warranty

terminates upon any transfer of ownership. **WARRANTY PERFORMANCE** To make a claim under this warranty,

contact in writing DMF UK LTD. You must give us written notice of any warranty claim, along with a copy of your original purchase receipt indicating the date of the purchase, within ten (10) days of the time you discover the claim. We reserve the right to inspect the malfunction or defect on location.

We will be responsible for repair of any defects covered by this warranty. Except as described herein, you will not be charged for parts,

labour or the freight costs for parts necessary to repair the spa for defects covered by this warranty. In some

cases, the servicing repairperson may charge you a reasonable travel/service charge that is not covered by

this warranty. Please contact DMF UK Ltd for information regarding any such charges.

LIMITATIONS Except as described above, this warranty does not cover defects or damage due to normal

wear and tear, improper installation, alteration without manufacturer's prior written consent, accident, acts

of God, misuse, abuse, commercial or industrial use, use of an accessory not approved by the Manufacturer,

failure to follow his Instructions or Owner's Manual or repairs made or attempted by anyone other than an

authorized representative. Alteration includes, but is not limited to, any component or plumbing change, or

electrical conversion. This warranty does not cover blisters, cracks or delimitation in the acrylic as a result of water chemistry mismanagement, misuse and abuse. Examples of misuse and abuse include but are not limited to:

- Damage caused by contact with cleaners, solvents or other harsh chemicals
- Damage caused by operating the spa at water temperatures outside the range of 16 – 41 degrees Celsius, filling the tub directly with hot water or water freezing on the spas shell surface.
- Damage caused by overdosing with water sanitising chemicals, high accumulation of chemicals in the water, or failure to change the water every 8 – 10 weeks.
- Damage caused by leaving the spa shell exposed to direct sunlight when empty of water or as a result of covering the spa with plastic film of any kind.
- Damage as a result of use of un-approved sanitizers such as Tri- Chlor type Chlorine, Calcium hypochloride, any sanitizers in sachets or any sanitizing chemicals that may remain undisclosed on the spa surface.
- Damage caused by an uneven support base or base/platform not structurally sufficient to support the total weight of the spa when full of water and people.

DISCLAIMERS: TO THE EXTENT PERMITTED BY LAW, DMF UK Ltd SHALL NOT BE LIABLE FOR LOSS OF USE OF

THE SPA OR OTHER INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES, INCLUDING BUT NOT

LIMITED TO REMOVAL OF ANY PART OR CUSTOM FIXTURE OR ANY COST TO REMOVE OR REINSTALL THE SPA, IF NEEDED. ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY STATED ABOVE.

Operating instructions

We recommend that you set your Hot Tub to use the thermostat to control heating and circulation. This will allow simple trouble free use of the spa. It is possible to programme the circulation and heating functions, however this is intended for use if the Hot Tub was located in a Hotel or health spa and intended for more industrial use.

The idea of setting your spa to thermostatic control will mean that the Hot tub is always ready for use. It is also more economical to leave the water at a constant temperature than letting the water cool. Thermostatic control will also ensure a consistent level of circulation and filtering.

Please note the POWER button on your control panel, you do not need to turn the hot tub off after every use, you could turn it on once and then have no need to turn it off again. Turning the tub into standby mode will deactivate automated functions i.e it will not heat or circulate. Standby mode will allow to programme the tub to run at specified times (not recommended). Please note that some of the buttons have a secondary function written in blue, it is this blue secondary function that becomes active in standby mode.

Quick start guide

When you have filled your hot tub to the correct level, turn on the tub from the isolation switch/external safety switch. Your hot tub will now be in standby mode and will display four lines. Press the Standby button on your control panel to turn on your tub. The display "WELCOME", your display will show you the current temperature of the water. Using the temperature control, scroll the desired temperature up to 36 degrees. Then press the "Preheat" button once. This will activate your circulation pump. You should see water being drawn in through your filter compartment, you will also have a blue symbol on your screen. Press the "preheat" button a second time. After a few seconds you should see a red symbol at the bottom of your screen, this is the heater indicator. That's it!! Your tub will take around 12 hrs to heat up, administer any chemical treatments and put your lid on and wait until its hot.

Activating the Jet pumps.

Now looking at the other buttons on the control panel, there are four massage functions, Jet pumps 1,2,3 and there is also an Air blower. You use these when you are in the tub and then deactivate them when you have finished.