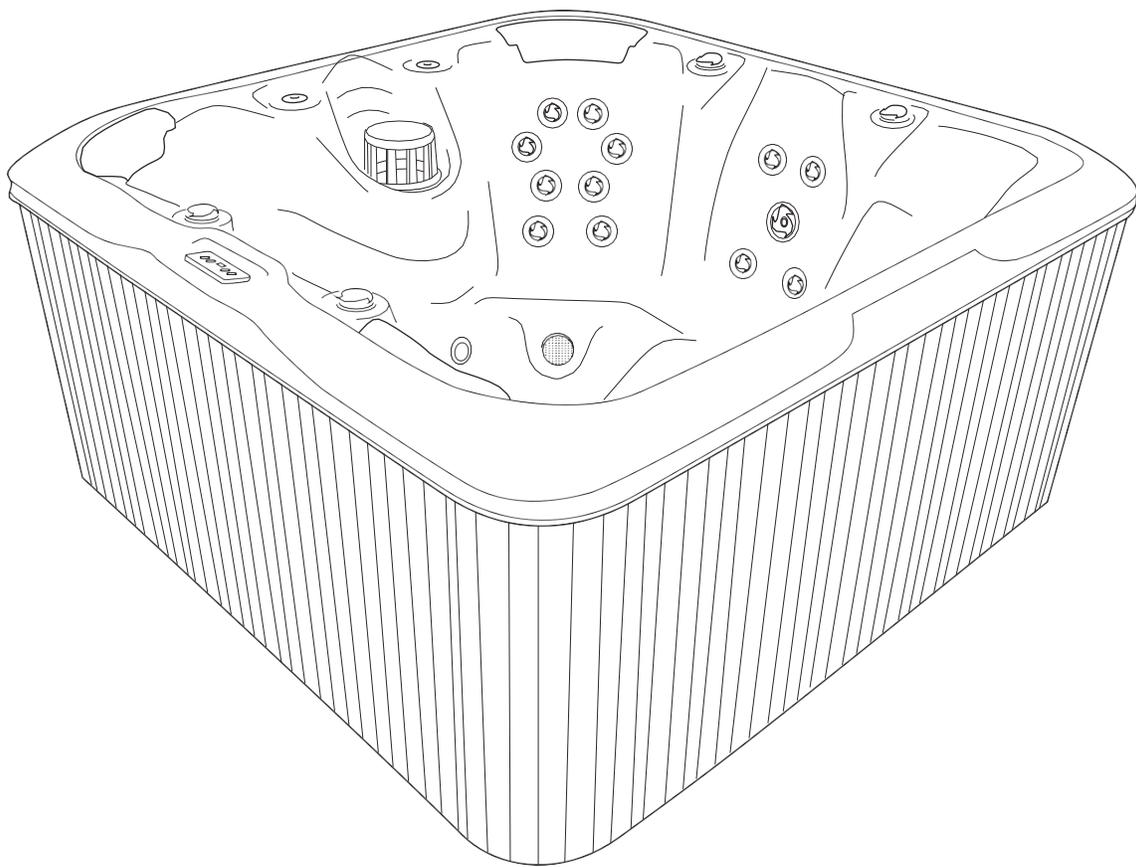


INSTRUCTION MANUAL

BlueWhaleSpa



MVP260 Control Reference Card

Non-Circ Operation

Initial Start-up

When your spa is first actuated, it will go into Priming mode, indicated by “Pr” Please see the M-7 Installation Instruction Manual for complete instructions on Power-up and Pump Priming. The Priming mode will last for less than 5 minutes (press "Temp" or "Set" to skip Priming Mode) and then the spa will begin to heat the spa and maintain the water temperature in the Standard mode.



Temp/Set (80°F - 104°F / 26°C - 40°C)

The start-up temperature is set at 100F°/37°C. The last measured temperature is constantly displayed on the LCD.

Note that the last measured spa temperature displayed is current only when the pump has been running for at least 2 minutes.

To display the set temperature, press the “Temp” or “Set” pad once.

To change the set temperature, press the pad a second time before the LCD stops flashing. Each press of the “Temp” or “Set” pad will continue to either raise or lower the set temperature.

If the opposite direction is desired, release the pad and let the display revert to the current water temperature. Press

the pad to display the set temperature, and again to make the temperature change in the desired direction.

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

Note: If there is not a blower on the system, an alternate panel with separate "Up" and "Down" buttons in place of a "Set" or "Temp" button may be used. Simply press "Up" or "Down" where a "Temp" or "Set" button press is indicated. (Ignore the "direction reversal paragraph.")

Jets

Touch the “Jets” button once to activate the low speed of the pump and again for the high speed. Press the “Jets” button again to turn off the pump. If left running, the low speed of the pump will automatically turn off after 4 hours, and the high speed will automatically turn off after 15 minutes. The low speed of the pump runs when the blower is on. It may also activate for at least 2 minutes every 30

minutes to detect the spa temperature and then to heat to the set temperature if needed, depending upon mode. When the low speed turns on automatically, it cannot be deactivated from the panel; however, the high speed may be started.

Blower *(optional)*

This button is used to turn the blower on and off. If left on, the blower automatically turns off after 15 minutes.

Jets 2 *(optional)*

If your system has a pump 2 installed instead of a blower, it behaves exactly like a blower would.

Preset Filter Cycles

The first filter cycle begins 6 minutes after the spa is energized. The second filter cycle begins 12 hours later. Filter duration is programmable for 2, 4, 6, 8 hours or for continuous filtration (indicated by “*FL*”). The default filter time is 2 hours. To program, press “Temp” or “Set,” then “Jets.” Press “Temp” or “Set” to adjust. Press “Jets” to exit programming.

The blower purges for 30 seconds at the beginning of each filter cycle. The low speed of the pump runs during filtration and the ozone generator (if installed) will be enabled.

Light

Press the “Light” button to turn the light on and off. If left on, the light automatically turns off after 4 hours.

Mode

Mode is changed by pressing the “Temp” or “Set” button, then pressing the “Light” button.

Standard Mode is programmed to maintain the desired temperature. Note that the last measured spa temperature displayed is current only when the pump has been running for at least 2 minutes. “*SL*” will be displayed momentarily when you switch into Standard Mode.

Economy Mode heats the spa to the set temperature only during filter cycles. “*EL*” will display solid when temperature is not current, and will alternate with temperature when temperature is current.

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

Freeze Protection

If the temperature sensors detect a drop to below 44°F/6.7°C within the heater, the pump and blower will automatically activate to provide freeze protection. The equipment stays on until 4 minutes after the sensors detect that the spa temperature has risen to 45°F/7.2°C or higher. In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Aux freeze sensor protection acts similarly except with the temperature thresholds determined by the switch and without a 4-minute delay in turnoff. See your dealer for details.

Diagnostic Messages

Message

Meaning

Action Required

	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings will be preserved until next power up.
— —	Temperature unknown.	After the pump has been running for 2 minutes, the temperature will be displayed.
HH	“Overheat” - The spa has shut down. One of the sensors has detected 118°F/48°C at the heater.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
OH	“Overheat” - The spa has shut down. One of the sensors has detected 110°F/43°C at the heater.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
IC	“Ice” - Potential freeze condition detected.	No activation required. The pump and blower will automatically activate regardless of spa status.
SA	Spa is shut down. The sensor that is plugged into the Sensor “A” jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Sb	Spa is shut down. The sensor that is plugged into the Sensor “B” jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Sn	Sensors are out of balance. If alternating with spa temperature, it may just be a temporary condition. If flashing by itself, spa is shut down.	If the problem persists, contact your dealer or service organization.
HL	A significant difference between temperature sensors has been detected. This could indicate a flow problem.	Check water level in spa. Refill if necessary. If the water level is okay, make sure the pumps have been primed. If problem persists, contact your dealer or service organization.
LF	Persistent low flow problems. (Displays on the fifth occurrence of “HL” message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.	Follow action required for “HL” message. Heating capability of the spa will not reset automatically; you may press any button to reset.
dr	Possible inadequate water, poor flow, or air bubbles detected in the heater. Spa is shut down for 15 minutes.	Check water level in spa. Refill if necessary. If water level is okay, make sure the pumps have been primed. Press any button to reset, or this message will automatically reset within 15 minutes. If problem persists, contact your dealer or service organization.
dy	Inadequate water detected in heater. (Displays on third occurrence of “dr” message.) Spa is shut down.	Follow action required for “dr” message. Spa will not automatically reset. Press any button to reset.

Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

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BlueWhale Spa

Winter – Potential Frost Damage

If your tub is going to be left empty over the winter months or in any very cold climate where there is a possibility of sub zero conditions it is very important to remove all the water from the pipework and pumps as well as from the tub itself.

Water that freezes in the pipework and pumps can expand and crack the pipes and pump wet ends leading to major leaks, which will leave your tub unusable and will need an engineer to repair. **Frost damage is not covered in the warranty on your tub.**

Your hot tub water needs to be treated with certain chemicals to maintain its cleanliness.

Sanitiser levels, Ph Levels and Total Alkalinity can be measured with readily available water testing strips. As you use your tub, chemical levels will change as they do their job, keeping the water clean. **Remember to only add small quantities of chemicals to your water as once it is dissolved into the water it is impossible to take any out.**

Sanitiser

Sanitiser, chlorine or bromine can be used in either granule or tablet form. Granules dissolve into the tub water quickly and can be used to boost chlorine levels quickly. Tablets are slower to dissolve and are floated around in the hot tub in a floating dispenser. This can keep Chlorine levels more stable, reducing the need for regularly dissolving granules into the water. **Never mix Chlorine and Bromine in the same water !**

Ph

Also required is a chemical for controlling the Ph of the water. Either a Ph increaser or a Ph Reducer can be used to keep the Ph within a safe level.

Total Alkalinity

This is the measure of the ability of water to resist changes in Ph. Total Alkalinity increaser is added once the Chlorine content and the Ph level are correct.

Testing Strips

Testing strips have coloured pads which change colour dependent on the amount of the above chemicals dissolved into your water.

Dip the testing strip in your water and compare the colour of the pads on the strip to the coloured squares on the testing strip container.

If the coloured pad is the same as the square patch on the container you do not need to add any chemicals.

If the coloured pads are different to the squares on the container add small amounts of chemicals to the water re-testing each time until the coloured pads match the squares on the container.

Oxidiser (Shock)

This should be used as directed on the package once a week or after the spa has been used for several hours by a larger than normal number of people.

These chemicals could be the only things you need to put into your water to keep it clean. There are however various other things that affect the quality of your water as the tub is used. All of these chemicals should be used sparingly in small amounts, retesting after each addition of chemicals.

Other Chemicals and Products

Anti Foam

This chemical reduces foam that can occur when hair products, make up, false tan, creams or skin conditioners get into the water in your tub. Simply pour a capful of anti foam around the edges of your tub and watch the foam disappear.

Water Clarifiers

Use these types of products as instructed on the package to keep your water sparkling clean.

Anti Scale

In areas of hard water add a couple of capfuls of anti scale to reduce the buildup of scale and any staining that may occur.

Waterline Cleaner

Use waterline cleaner every week to remove any build up of dirt that may occur around the waterline.

Filter Cleaning

Dependent on the amount of use that your tub gets you should clean your filters every two weeks. There are various overnight soak solutions or instant cleaner sprays that can keep your filters clean.

The most effective method of extending filter life is to have a pair or two sets of filters to rotate. Whilst one set is in the tub working, the other set is cleaned and dried out and then when it is time to clean the filter again you simply replace it with the clean dryfilter.

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