MSPA-MP-SR4 / Pump & Blower System

*The **Quick Reference Card** provides a quick overview of your spa's main functions and the operations accessible with your digital control pad. Note: Functionality depends on key configuration.*

Starting Pump 1:

Press **Jets 1** to turn Pump 1 on at low speed. Pressing a second time turns Pump 1 to high speed. A third time turns Pump 1 off.

A built-in timer turns Pump 1 off after 20 minutes, unless manually deactivated first.

▼ The "Jets 1" indicator lights up when Pump 1 is on. With a dual-speed pump, indicator will flash when Pump 1 is on at low speed.

Starting Pump 2:

Press **Jets 2** to turn Pump 2 on at low speed. Pressing a second time turns Pump 2 to high speed. A third time turns Pump 2 off.

A built-in timer turns Pump 2 off after 20 minutes, unless manually deactivated first.

▼ The "Jets 2" indicator lights up when Pump 2 is on. With a dual-speed pump, indicator will flash when Pump 2 is on at low speed.

Turning the light on:

Press **Light** to turn light on at high intensity. Pressing a second time turns light to low intensity. A third time turns light off. A built-in timer turns light off after 2 hours, unless manually deactivated first.

▼ The "Light" indicator is displayed when light is on at high intensity. It flashes when light is on at low intensity.

Fiber Box Option: If your spa has an optional fiber box, press Light key to turn fiber box (motor & light) on. Press a second time to turn fiber box off and turn light output on. A third time turns both fiber box and light on. A fourth time turns fiber box and light off. The "Light" indicator is displayed when fiber box or light is on. A built-in timer turns fiber box off after 2 hours, unless manually deactivated.

Note: With the fiber box option, the spa light will auto-matically become single-intensity only. If your spa is equipped with a single-intensity optional fiber box, press the Light key to turn fiber box on and a second time to turn it off.

CoolRays option: refer to CoolRays user's manual.

Automatic water heater start:

When water temperature is 1˚F (0.5˚C) lower than the Set Point, the heater will automatically turn on until water temperature reaches Set Point plus 1˚F (0.5˚C).

▼ The "Heater" indicator lights up when the heater is on. It flashes when there is a request for more heat but the heater has not yet started.

N.B.: If your system is configured in Low Current Mode, the heater will not start if pumps are running at high speed.

Starting the blower:

Press **Blower** to turn blower on at high speed. Press a second time to turn blower to low speed. A third time turns blower off. A built-in timer automatically turns blower off after 20 minutes, unless blower has been manually deactivated first.

▼ The "Blower" indicator lights up when blower is on at high speed. It flashes when blower is on at low speed.

Note: If system is programmed for a single-speed blower operation, the sequence will be on/off.

Standby mode:

Press **On/Off** to turn the system off (i.e. to set it to Standby mode) for 30 minutes. The "OFF" message is displayed. All keys are then disabled, unless you press **On/Off** to reactivate the system before the expiration of the 30-minute delay.

N.B.: If the system is turned off while the heater is on, the circulation pump will run for 3 minutes and the "OFF" message will flash. The filter/purge cycle is cancelled when the system is turned off.

Setting water temperature:

Use **Heat** or **Cool** to regulate water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.

🌡 The "Set Point" symbol indicates the desired tem-perature, NOT the current water temperature!

Water temperature can be adjusted by 1˚ increments from 59 to 104˚F (15 to 40˚C).

Pad lockout:

Partial lock: To lock all keys except "Pumps", "Blower" and "Light", press and hold **On/Off** key for 5 seconds. The "LocP" message will be displayed when the keypad is locked.

Full lock: To lock the keypad, press and hold **On/Off** key for 10 seconds. The "LocF" message will be displayed after the "LocP" message when the entire keypad is locked.

Unlock: Simply press and hold again **On/Off** key for 5 seconds .

If a power-up occurs, the keypad always returns to the unlock mode.

Inverted display:

Press and hold **Oz/Filter** key for 5 seconds to invert the display. The ˚F or ˚C icon is not displayed in re-verse mode. Follow the same procedure to return to default mode. If a power-up occurs, the display always returns to its default mode.

DUAL SET POINT MODE

The Dual Set Point mode allows you to regulate the water temperature of your spa at two different set points, depending on the time of day. To set Dual Set Point mode:

1• Press and hold **Jets 1** key for 5 seconds. The display will show "dxxx", with "xxx" representing the second Set Point.

2• Use **Heat** or **Cool** keys to change setting. Then, press **Jets 1** key. The display will show "ddxx", with "xx" representing the number of hours during which the system will be in second Set Point mode. Use **Heat** or **Cool** keys to change setting.

3• Press **Jets 1** key. The setting is saved and the spa will start regulating water temperature at the second Set Point. In this mode, display toggles between "duAL" and water temperature.

- *If a power-up occurs, the system cancels Dual Set Point mode and returns to default settings (d 95 & dd00).*
- *If **Heat** or **Cool** keys are pressed while the system is in Dual Set Point mode, the Dual Set Point mode will be cancelled and return to default settings. When Dual Set Point mode is cancelled, the system will return to regulating water temperature to the primary Set Point.*

PROGRAMMING THE PURGE/FILTER CYCLES

The system either performs 3 purge cycles per 12 hours (every 4 hours) or 2 filter cycles per day, at 12-hour intervals (depending on system configuration). During a purge/filter cycle, Pumps 1 & 2 and blower run for one minute. To set purge/filter cycles:

Oz/Filter Key

Press **Oz/Filter** key. The display will show the currently set number of purge cycles per 12 hours (or the filter cycle duration in hours).

Heat & Cool Arrow Keys

Use **Heat** or **Cool** keys to change setting.
Purge: 0, 1, 2, 3, 4, 6 or 12
Filter: 0 = no filtration
         12 = continuous filtration

Oz/Filter Key

When the desired setting is displayed, press **Oz/Filter** to confirm. A purge/filter cycle will start immediately.

- **40-minute ozonator & purge/filter cycle output time-out:** *If you turn a pump, blower or light on, ozonator & purge/filter cycle will be interrupted and will only resume 40 minutes after you (or the system) have turned the last active output off.*
- *After a power failure, the first purge/filter cycle will start 12 hours after power has been restored.*
- *For systems not equipped with a circulation pump: If water temperature is 2˚F (1˚C) higher than the Set Point (for more than 3 hours), system cancels purge/filter cycle and "Oz/Filter" indicator will be off.*
- *The "Oz/Filter" indicator will be displayed when the ozonator is on. "Pur" message alternates with water temperature during a purge cycle. "FIL" message alternates with water temperature during a filter cycle.*

TROUBLESHOOTING

AFP	*Pumps have started up for one minute on several occasions and "AFP" alternates with water temperature on display.*	Not a bug but a feature! Our **Smart Winter Mode** protects your spa from the cold by automatically turning pumps on for one minute several times a day to prevent water from freezing in pipes.
.98	*3 flashing dots are displayed.*	A problem has been detected. Do not enter the water! Check and open water valves. Clean filters if necessary. Check water level. Add water if needed. Shut power off and power your spa up again to reset the system. Call your dealer or service supplier if problem persists.
112	*Water temperature is flashing.*	Water temperature in the spa has reached 112˚F (44˚C). Do not enter the water! Allow the water to cool down. The system will reset itself when water reaches 109˚F (43˚C). Call your dealer or service supplier if problem persists.
	The display is flashing.	A power failure has occurred. Press any key to reset the system.

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