

MSPA-1-AS SPA PACK



This Quick Reference Card is a summary of your spa's main functions and provides a quick overview of operations accessible from your spa side keypad.

To start Pump 1:



Press the **Pump 1** key to turn pump 1 on at low speed. A second press will turn the pump off. A built-in timer will shut the pump off after 20 minutes unless it has been manually deactivated.

▼ The "Pump 1" marker will be displayed when pump 1 is running at high speed. It will flash when the pump is running at low speed.

To start Pump 2:



Press the **Pump 2** key to turn pump 2 on at low speed. A second press will turn the pump off. A built-in timer will shut the pump off after 20 minutes unless it has been manually deactivated.

▼ The "Pump 2" marker will be displayed when pump 2 is running at high speed. It will flash when the pump is running at low speed.

Note: Pump 2 can be configured to have one or two speeds.

To start the blower:



Press the **Blower** key to turn the blower on. A second press will turn the blower off. A built-in timer will shut the blower off after 20 minutes unless it has been manually deactivated.

▼ The "Blower" marker will be displayed when the blower is running.

To turn the light on:



Press the **Light** key to turn the light on at high intensity. A second press will turn the light to low intensity. A third press will turn the light off. A built-in timer will shut the light off after 2 hours unless it has been manually deactivated.

▼ The "Light" marker will be displayed when the light is on at high intensity. It will flash when the light is at low intensity.

Water heater automatic start:

When the water temperature is 0.5°C (1°F) lower than the set point, the heater will be turned on until the water temperature reaches the set point plus 0.5°C (1°F).

▼ The "Heater" marker will be displayed when the heater is on. It will flash when there is a call for heat but the heater has not started yet.

Note: If your system is configured in Low Current Mode, the heater will not start if one of the pumps is running at high speed.

Inverted display:

A simple key press sequence inverts the display to make it readable from inside or outside the spa. To invert the display:

- Press the **Filter** key. The display will show "Fxx" where "xx" is the currently set filter cycle duration in hours.
- Press the **Econo** key. The "Fxx" message will disappear and the display will be inverted. The "°C" or "°F" icon will not be displayed.

To change the water temperature:



Press the **Up** or **Down** arrow key to increase or decrease the desired water temperature. The selected temperature setting ("set point" value) will be displayed for 5 seconds as a confirmation.

• The "Set Point" symbol on the display will indicate that the temperature shown is the desired, and not the current, temperature of the water!

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

Temperature display unit:

The water temperature can be displayed in °C or °F. Simply press and hold the **Light** key for 5 seconds to toggle between °C or °F.

The Economy mode:

The Economy mode allows you to lower the temperature set point of the spa by 15°C (27°F) during a certain period of the day. When in Economy mode, the "Econ" message will be displayed.

To program the Economy mode, you must enter two parameters: the duration and the delay before the Economy mode starts.

To set the duration of the Economy mode:

• Press the **Econo** key. The display will show "E xx" where "xx" represents the currently set Economy mode duration in hours.

• Use the **Up** or **Down** arrow key to change the setting:
0 = No Economy mode
24 = Economy mode always on

To set the delay before the Economy mode starts:

• Press the **Econo** key to confirm. The display will then show "d xx" where "xx" represents the delay in hours before the Economy mode starts.

• Use the **Up** or **Down** arrow key to change the setting:
0 = Economy mode starts now
x = Economy mode will start in "x" hours

Keypad lockout:

To lock the keypad:

• Press and hold the **Econo** key for 5 seconds. When the keypad is locked, the attempted function is rejected and the "LOC" message is displayed for one second.

To unlock the keypad:

• Press and hold the **Econo** key for 5 seconds. If the sequence is successful, the system returns to normal operation, all functions being normally accessible.

Note: A power-down of the system will also unlock the keypad.

Quick Reference Card

HOW TO PROGRAM THE FILTER CYCLE DURATION

The system will automatically perform one daily filter cycle. During a filter cycle:

- Pump 2 and blower run for one minute, then
- Pump 1 runs at low speed for the programmed number of hours, and the ozonator is turned on.

To set the filter cycle duration:



Press the **Filter** key.

The display will show "F xx" where "xx" represents the currently set filter cycle duration in hours.



Use the **Up** or **Down** arrow key to change the setting.

0 = no filter cycle
24 = continuous filter cycle



When the desired setting is displayed, press the **Filter** key to confirm.

The display will then show "d xx" where "xx" represents the delay in hours before the filter cycle starts.



Use the **Up** or **Down** arrow key to change the setting.

0 = cycle starts now
x = cycle will start in "x" hours

The "Filter Cycle" marker will be displayed during a filter cycle.

▼ An irregularly flashing "Filter Cycle" marker indicates that the system has stopped filtering after 3 hours because the water temperature exceeds the set point by more than 1 °C (2 °F). If the temperature cools down to 0.5 °C (1 °F) above set point before the scheduled end of the cycle, filtering will resume for the remaining of the programmed duration.

Note: After a power failure, the filter cycle duration will return to its default value (2 hours). In this case the first filter cycle will start 12 hours after power has been restored.

PROBLEMS & CORRECTIVE ACTIONS



The pumps start by themselves for one minute on several occasions and the "Filter Cycle" marker is flashing.

Not a bug, but a feature!

The **Smart Winter Mode** of the spa pack protects your spa from the cold by turning the pumps on for one minute several times a day to prevent the water from freezing in the pipes.



The "HL" error message is displayed.
The "HL" error message is flashing.

- ▶ The system has shut the heater down because the water temperature **at the heater** has reached 48 °C (119 °F).
- ▶ The system has shut down because the water temperature **in the spa** has reached 44 °C (104 °F). Only the **Smart Winter Mode** remains active.

In both cases, do not enter the water! Remove spa cover and allow the water to cool down to 40 °C (104 °F), then turn the breaker off to reset the system. Call your dealer or service supplier if the problem persists.



The "FLO" error message is displayed.

The system does not detect any water pressure when pumps are turned on.

Check and open water valves. Check for water level. Clean filter. Call your dealer or service supplier if the problem persists.



The "FLC" error message is displayed.

The system detects a problem with the pressure switch. Call your dealer or service supplier.



The "Prr" error message is displayed.

The system detects a problem with the temperature probe. Call your dealer or service supplier.

The display is flashing.

A power failure has occurred. Press any key to reset the system, then reprogram all desired parameters.

