DYNASTY SPAS

• SC-MP-DY4 / Dual-Pump System •

*The **Quick Reference Card** provides a quick overview of your spa's main functions and the operations accessible with your digital control pad.*

Starting Pump 1:

Press **Pump 1** to turn Pump 1 on at low speed. Press a second time to turn pump to high speed. Press a third time to turn pump off. When at high speed, a built-in timer turns pump off after 20 minutes and when at low speed after 2 hours, unless manually deactivated first.

The "Pump 1" indicator lights up when Pump 1 is on at high speed. It flashes when Pump 1 is on at low speed.

Starting Pump 2:

Press **Pump 2** to turn Pump 2 on. Press a second time to turn Pump 2 off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated.

The "Pump 2" indicator lights up when Pump 2 is on.

Setting water temperature:

Use **Up** or **Down** arrow keys to regulate water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.

The "Set Point" indicator displays the desired temperature, NOT the current water temperature!

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

Temperature display unit:

Press and hold **Light** key for 5 seconds to display water temperature in either Fahrenheit (°F) or Celsius (°C). If a power-up occurs, system returns to default setting (°F).

Turning the light on:

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

The "Light" indicator is displayed when light is on.

Fiber Box Option: If spa has an optional fiber box, press **Light** key to turn fiber box (motor and light) on. Pressing a second time turns fiber box off but leaves light on. A third time turns both motor and light off. A built-in timer turns fiber box off after 2 hours, unless it has been manually deactivated. The "Light" indicator is displayed when fiber box light is on. It flashes when fiber box motor and light are on at the same time.

LED Light Option: If spa has an optional LED light, Press **Light** key to turn LED lights on. To advance to the next color/display setting, press **Light** key twice. The LEDs will go off with the first press, then back on in the next setting with the second press. If the LEDs remain off for more than 5 sec., the color/display sequence will reset and start back at the beginning the next time the **Light** key is pressed. Color/display sequences are:

1 • LEDs light up and slowly cycle through all six colors. The slow cycle restarts at the beginning and repeats.
2 • LEDs light up and remain on in Aqua.
3 • LEDs light up and remain on in Purple.
4 • LEDs light up and remain on in Blue.
5 • LEDs light up and remain on in Gold.
6 • LEDs light up and remain on in Green.
7 • LEDs light up and remain on in Red.
8 • LEDs light up for 2 sec., flash off, then flash on in the next color until all six colors have been displayed. The flashing cycle then repeats itself.
9 • LEDs flash on/off quickly for a strobe light effect. A built-in timer turns lights off after 2 hours unless manually deactivated first.

The "Light" icon is displayed when LED light is on.

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 a pump is on at high speed.

Economy mode:

Press **Econo** key to switch from Normal mode to Economy mode. In Economy mode, system maintains temperature at the desired Set Point during filter cycles only. Set Point is 20°F (11°C) below the Normal mode Set Point for the rest of the time. In Economy mode, the display will toggle between the current water temperature and the "Econ" message.

PROGRAMMING FILTER CYCLE DURATION

The system automatically performs two filter cycles per day, at 12-hour intervals.
During a filter cycle: Pump 2 runs for one minute, then Pump 1 runs at low speed for the programmed number of hours

The "Filter Cycle" indicator lights up when the filter cycle is on. To set filter cycle duration:

Press and hold **Filter** key until the display shows "**xx**", representing the currently set filter cycle duration in hours.

Use **Up** or **Down** arrow keys to change setting.
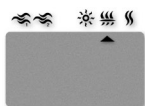0 = no filtration
12 = continuous filtration

When the desired setting is displayed, press **Filter** key to confirm. A filter cycle starts immediately.

Note: Light needs to be turned off before the filter cycle can be programmed.

The filter cycle is suspended if the water temperature raises more than 2°F (1°C) above Set Point or if spa is in use (pumps started manually). The "Filter" icon will flash (on 0.5 second, off 0.5 second, on 0.5 second, off 1.5 second).

N.B.: 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 one minute after power has been restored.

TROUBLESHOOTING

	Pumps have started up for one minute on several occasions and "Filter Cycle" indicator is flashing.	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.
	3 flashing dots are displayed.	A problem has been detected. Do not enter the water! Check and open water valves. Clean filter 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.
	Water temperature is flashing.	Water temperature in the spa has reached 112°F (44°C). Do not enter the water! Allow water to cool down. The system will reset automatically when water temperature 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, then reprogram all desired parameters.