DYNASTY SPAS

• MC-MP-CE Spa Pack •

DYNASTYSPAS

Excalibur Series

Pump 3 Prog. Pump 1 Pump 2 Blower Light Econo Filter Up Down

*The **Quick Reference Card** provides a quick overview of your spa's main functions and the operations accessible with your digital control pad. Note that some functions require the use of the K-4 keypad (10 keys).* **∗**

Starting Pump 1:

Press **Pump 1** to turn Pump 1 on at low speed. Press a second time to turn Pump 1 to high speed. A third time turns Pump 1 off. A built-in timer automatically turns pump off after 20 minutes, unless it has been manually deactivated.

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:

Dual-speed pump system:
Press **Pump 2** to turn Pump 2 on at low speed. Press a second time to turn pump to high speed. A third time turns pump off.

Single-speed pump system:
Press **Pump 2** to turn Pump 2 on. Press a second time to turn Pump 2 off.

In both cases, a built-in timer turns Pump 2 off after 20 minutes, unless it has been manually deactivated.

The "Pump 2" indicator lights up when Pump 2 is on. With a dual-speed pump, it will flash when Pump 2 is on at low 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 manually deactivated first.

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

Automatic water heater start:

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

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.

Note: The heater will not start if two pumps or more are running at high speed.

Setting water temperature:

Use **Up** or **Down** arrow key 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 temperature, NOT the current water temperature!

Water temperature can be adjusted by 0.5°C or 1°F increments from 15 to 40°C (59 to 104°F).

Turning the light on:

Two-intensity spa light:
Press **Light** key to turn light on at high intensity. Press a second time to turn light to low intensity. A third time turns light off.

One-intensity spa light:
Press **Light** key to turn light on. Press a second time to turn light off.

In both cases, 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 motor off and leave 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.

Starting Pump 3: ∗

Press **Pump 3/Off** to turn Pump 3 on. Press a second time to turn Pump 3 off. A built-in timer automatically turns pump off after 20 minutes, unless manually deactivated first.

Standby mode:

Press and hold **Filter** key for 5 seconds to turn the system down (i.e. to set it to Standby mode) for 60 minutes. The display toggles between "SBY" message and the time remaining. All keys are then disabled, unless you press **Filter** key to reactivate the system before the expiration of the 60-minute delay.

Troubleshooting

Pumps have started up for one minute on several occasions and "Filter Cycle" icon is flashing.

Not a bug but a feature!

Our **Smart Winter Mode** protects your system from the cold by automatically turning pumps on for one minute several times a day to prevent water from freezing in pipes.

The display is flashing.

A power failure has occurred. Press any key to reset the system.

Water temperature is displayed.

Water temperature in the spa has reached 44°C (112°F).

Do not enter the water! Allow water to cool down. The system will reset automatically when water reaches 43°C (109°F).

Call your dealer or service supplier if problem persists.

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.

Filter cycles

The system automatically performs 2 filter cycles per day, at 12-hour intervals. During a filter cycle, Pumps 2 & 3 and blower run for one minute. Pump 1 then runs at low speed for the remaining of the cycle and "Filter Cycle" icon lights up. (If system is equipped with a circulation pump, all pumps and blower run for one minute. Circulation pump then runs for the remaining of the cycle and "Filter Cycle" icon lights up.)

Setting filter cycles:

FDI0

FS06

1- Press **Filter** key.
2- The display will show **FDxx**, with "xx" representing the duration in hours.
3- Use **Up** and **Down** arrows to change setting.
4- Press **Filter** key again.
5- The display will show **FSxx**, with "xx" representing the delay before cycle starts.
6- Use **Up** and **Down** arrows to change setting.
7- Press **Filter** key to store settings.

40-minute filter cycle time-out: If you turn a pump, blower or light on during a filter cycle, the cycle will be interrupted and will only resume 40 minutes after the system has turned the last active output off.

Purge cycles

The system can perform a number of purge cycles per day. During a purge cycle, pumps and blower run for two minutes and "Filter Cycle" icon lights up.

Setting purge cycles:

P 24

1- Press **Filter** key.
2- The display will show **P xx**, with "xx" representing the currently set number of daily purge cycles.
3- Use **Up** and **Down** arrows to change setting.
4- Press **Filter** key to store settings.

Boost filtration mode

This function allows you to speed up filtration after intensive use of your spa or to mix chemicals. Simply keep **Pump 1** key pressed down for 5 seconds. Pump 1 will run at high speed for 45 minutes and "BOO" message will be displayed. Ozonator is also activated.

"CLE" message

Every two weeks, the "CLE" message might be displayed indicating to clean the filter (depending on your spa configuration). Press any key to reset the message.

Real-time clock *

Use **Clock** key to set real-time clock. The display toggles every 5 seconds alternately showing the hourly time and the current water temperature.

Water level sensor

If the system is equipped with an optional water level sensor and the sensor detects an insufficient level of water in the tub, the system will prevent pumps from starting and will display the "H20" message. Pumps will be allowed to turn back on when water level returns above sensor.

Digital control pad lockout

This function allows you to prevent unauthorized parameter setting of the unit. This feature is especially helpful when young children have access to the keypad.

There are two modes you can choose from: *Full* lock or *Partial* lock. *Full* lock means that all keypad functions are locked. *Partial* lock means that the basic functions of the spa will remain accessible (pumps, blower and light), but it will be impossible to change the temperature Set Point, to override the Economy mode or to enter the Programming mode.

When control pad is locked, the "Lock" icon will be displayed.

Locking your digital control pad:

LocP

LocF

1- Press and hold **Econo** key for 5 seconds.
2- The display will show **LocP**, with "P" representing *Partial* lock.
3- Release key and keypad will be in *Partial* lock mode. Keep key pressed down for 5 more seconds if you want to be in *Full* lock mode. The "LocF" message will then be displayed.

When control pad is locked, all automatic functions of the system run as usual. If a key is pressed down, a "LocP" or "LocF" message will be displayed for 1 second. To unlock the keypad, simply press and hold **Econo** key again for 5 seconds.

Economy mode

To save energy, the Economy mode Set Point is 11°C (20°F) below the Normal mode Set Point.

The "Economy Mode" icon lights up when Economy mode is on.

Setting Economy mode:

EDI2

ES20

1- Press **Econo** key.
2- The display will show **EDxx**, with "xx" representing the Economy mode duration.
3- Use **Up** or **Down** key to change setting.
4- Press **Econo** key again.
5- The display will show **ESxx**, with "xx" representing the delay before mode starts.
6- Use **Up** and **Down** arrows to change setting.
7- Press **Econo** key a third time to store settings.

40-minute Economy mode time-out: If you turn a pump, blower or light on while Economy mode is on, the Economy mode will be interrupted and will only resume 40 minutes after the system has turned the last active output off. The "Econ" message or "Economy Mode" icon will flash, depending on your system configuration.

Inverted display

Press and hold **Light** key for 5 seconds to invert the display. If a power-up occurs, the display always returns to default mode.

Summary of control panel parameters

FDxx	Filter cycle duration
FSxx	Filter cycle start delay
LocX	Control pad lockout
EDxx	Economy mode duration
ESxx	Economy mode delay
P xx	Purge cycles

FS10

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