

# DYNASTY SPAS


## • MC-MP-DY4 Spa Pack •



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. Pressing a second time turns Pump 1 to high speed. A third time turns Pump 1 off. When at high speed, a built-in timer turns pump off after 20 minutes and when at low speed after 2 hours, unless it has been manually deactivated.

 The "Pump 1" icon 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** once to turn Pump 2 on at low speed. Pressing a second time turns Pump 2 to high speed. A third time turns pump off. A built-in timer turns pump off after 20 minutes, unless manually deactivated first.

 The "Pump 2" icon lights up when Pump 2 is on at high speed. It flashes 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 turns blower off after 20 minutes, unless manually deactivated first.

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

### 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 1° increments from 59 to 104°F (15 to 40°C).

### Inverted display:

Press and hold **Pump 2** for 5 seconds to invert the display. Note that the °F or °C icon is not displayed in reverse mode. Follow the same procedure to return to default mode. If a power-up occurs, the display always returns to default mode.

### Turning the light on:

Pressing **Light** key once turns 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 it has been manually deactivated.


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

**Fiber Box Option:** If spa has an optional fiber box only, pressing **Light** key turns fiber box (motor & light) on. Pressing again turns fiber box motor 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" icon 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:

- LEDs light up and slowly cycle through all six colors. The slow cycle restarts at the beginning and repeats.
- LEDs light up and remain on in Aqua.
- LEDs light up and remain on in Purple.
- LEDs light up and remain on in Blue.
- LEDs light up and remain on in Gold.
- LEDs light up and remain on in Green.
- LEDs light up and remain on in Red.
- 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.
- 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 light is on.

### Time & temperature display:

The display toggles every 5 seconds alternately showing the hourly time and the current water temperature.

 The filter cycle is suspended if the water temperature raises more than 2°F (1°C) above Set Point or if a pump has been started manually. The "Filter" icon will blink (on 0.5 second, off 0.5 second, on 0.5 second, off 1.5 seconds).

### Temperature display unit:

Press and hold **Light** key for 5 seconds to display water temperature in either Fahrenheit (°F) or Celsius (°C).

### 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 the 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, then reprogram all desired parameters.



**Water temperature is displayed.**

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 reaches 109°F (43°C).

Call your dealer or service supplier if problem persists.



**3 flashing dots are displayed.**

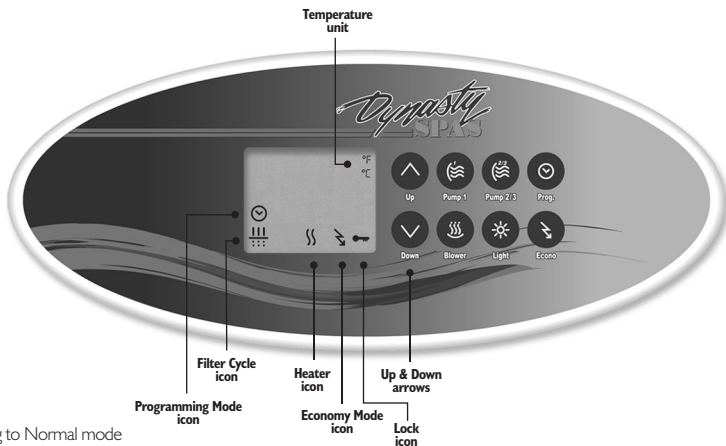
A problem has been detected.

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.

# 7 Step Programming Sequence



- Step 1** Time of day
- Step 2** Filter cycle start time
- Step 3** Filter cycle duration
- Step 4** Filter cycle frequency
- Step 5** Economy mode start time
- Step 6** Economy mode duration
- Step 7** Storing settings in memory & returning to Normal mode

## Step 1- Time of day

### Setting the time:



10:25 am



11:43 pm

- 1- Enter Programming mode by holding **Prog.** key pressed down for 2 seconds.
- 2- The display will show the current time.
- 3- Use **Up** and **Down** arrows to change the hours.
- 4- **Prog.** key a second time to select the minutes.
- 5- Use **Up** and **Down** arrows to change setting.

## Steps 2 & 3- Filter cycle start time & duration

The system automatically performs two filter cycles per day, at 12-hour intervals. During the filter cycle, Pumps 1 & 2 and the blower will run the first minute, then Pump 3 will run for one minute. Pump 1 will then run at low speed for a programmed number of hours. The "Filter Cycle" icon lights up when a filter cycle is on.

To program a filter cycle, you must enter: 1) the time you want the cycle to start and 2) the duration of the cycle. If no filtering is required, the duration should be set to "0". For continuous filtering, the filter cycle duration should be set to "12:00".

### Setting filter cycle start time:



FS01



FS12

- 1- Press **Prog.** key a third time.
- 2- The display will show **FSxx**, with "xx" representing the starting hour.
- 3- Use **Up** and **Down** arrows to change setting.

### Setting filter cycle duration:



Fd00



Fd12

- 1- Press **Prog.** key a fourth time.
- 2- The display will show **Fdxx**, with "xx" representing the duration in hours.
- 3- Use **Up** and **Down** arrows to change setting.

## Step 4- Filter cycle frequency

### Setting filter cycle frequency:



FF01



FF04

- 1- Press **Prog.** key a fifth time.
- 2- The display will show **FFxx**, with "xx" representing the frequency per day.
- 3- Use **Up** and **Down** arrows to change setting.

## Steps 5 & 6- Economy mode start time & duration\*

### Setting Economy mode start time:



ES10



ES08

- 1- Press **Prog.** key a sixth time.
- 2- The display will show **ESxx**, with "xx" representing the starting hour.
- 3- Use **Up** and **Down** arrows to change setting.

### Setting Economy mode duration:



Ed01



Ed04

- 1- Press **Prog.** key a seventh time.
- 2- The display will show **Edxx**, with "xx" representing the duration in hours.
- 3- Use **Up** and **Down** arrows to change setting.

## Step 7- Storing settings in memory

Press **Prog.** key an eighth time to store settings in the system's non-volatile memory and to return to Normal mode.

## 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:



- 1- Press and hold **Pump 1** key for 5 seconds.

LocP

- 2- The display will show **LocP**, with "P" representing *Partial* lock.

LocF

- 3- Release the key and the 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 **Pump 1** key again for 5 seconds.

When control pad is unlocked, the "Ulock" icon will be displayed.

## Economy mode

Press **Econo** key to switch from Normal mode to Economy mode. To save energy, the Economy mode Set Point is 20°F (11°C) below the Normal mode Set Point.



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

There are 3 available Economy operating modes:

- noEc: No Economy mode
- Ec 1: Economy mode always on
- Ec 2: Economy mode on during a programmed number of hours (see Steps 5 & 6\*)

### Selecting the desired Economy mode:



- 1- Press and hold **Econo** key for more than 2 seconds.

noEc

- 2- The display will show the current mode (noEc, Ec 1 or Ec 2).

Ec 1

- 3- Keep key pressed down until the desired mode is displayed.

After 5 seconds, the new setting will be programmed.

## Summary of control panel parameters

- FSxx** Filter cycle start time
- Fdxx** Filter cycle duration
- FFxx** Filter cycle frequency
- ESxx** Economy mode start time
- Edxx** Economy mode duration
- LocX** Control pad lockout

