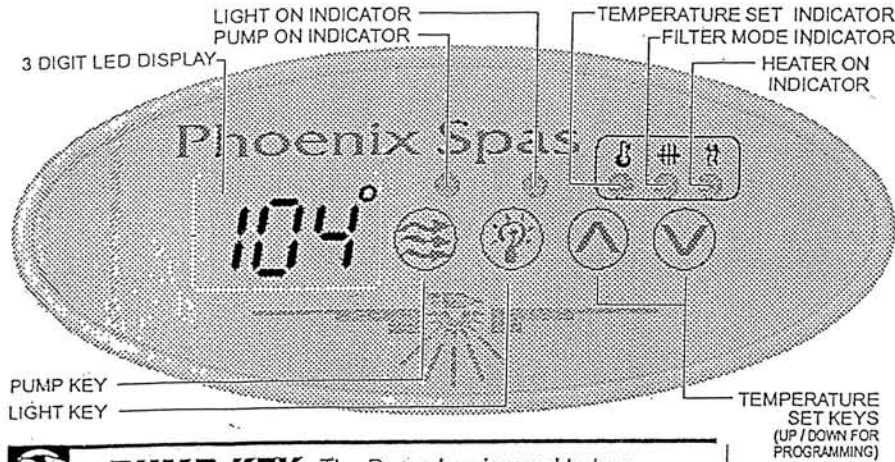


EC-1 SPASIDE REMOTE CONTROL PANEL



PUMP KEY: The Pump key is used to turn the pump on or off at selected speeds. If the pump is a single speed pump, the Pump key is used to turn it on and off. If the pump is a two speed pump, the first press will turn on the pump high speed, the second press will change the pump to low speed, the third press will turn the pump off or return to a heat or filtration mode (see note). A built-in timer will shut the pump off 20 minutes after it has been started unless the user does so manually. When the pump is on, the Pump On Indicator will appear above the Pump Key. **NOTE:** You may not be able to turn the pump off if it has started an internal heat or filtration cycle. This is easily identified by observing the status of the "Heater On Indicator" or the "Filter Mode Indicator".

LIGHT KEY: The Light key is used to turn light on or off. The first press of the Light key will turn the light on. A second press will turn the light off. The light will automatically turn itself off after 2 hours. When the light is on the Light On Indicator will appear above the Light Key.

PROGRAMMING FILTER CYCLES: You may choose to filter your spa 1, 2, or 3 times daily as required to maintain clean, sanitary water. At the same time, press and release both the Pump Key and the Up Arrow Key. The current setting for filtration cycle frequency will be displayed. Do nothing and the control will revert to the monitoring mode, OR, to change the frequency, press the Up or Down Arrow key. To save the setting, at the same time, press and release the Pump and Up Arrow Key. The cycles will repeat every 24, 12, or 8 hours within a 24 hour period, *starting from the time programmed*. It is recommended that the system is powered up at a time when the programmed cycles do not interfere with sleeping hours.

PROGRAMMING CYCLE DURATION: You may choose to filter your spa 60, 120 or 180 minutes per cycle as required to maintain clean, sanitary water. At the same time, press and release both the Light Key and the Up Arrow Key. The current setting for filtration cycle duration will be displayed (60, 120, 180). Do nothing and the control will revert to the monitoring mode, OR, to change the frequency, press the Up or Down Arrow key. To save the setting, at the same time, press and release the Light Key and Up Arrow Key.

IMPORTANT NOTES: (1) If a program change is not made within 5 seconds, the system will default back to the monitoring mode. (2) While programming, the Pump and Light features may have been activated. Either can be turned off in the normal way after programming is complete. The display will return to indicate water temperature 5 seconds after the keys are released.



TEMPERATURE SET KEYS:

The Up/Down Temperature Set Keys are used to set the desired water temperature. Press the Up or Down keys to increase (or decrease) the desired temperature setting. The temperature can be adjusted in 1°F increments from 41°F to 104°F (or 5°C to 40°C.). The desired temperature setting will remain in the display for 5 seconds as confirmation of the new value, after 5 seconds the display will return to display the present water temperature.

HEATER OPERATION: When the water temperature drops 1°F lower than the desired temperature, the heater will be turned on until the water temperature reaches

the desired temperature plus 1°F. The Heater On Indicator will appear on the function panel when it is on. The Heater On Light Indicator will blink on the function panel whenever there is a call for heat and the heater has not yet been powered.

FREEZE PROTECTION: If the water temperature falls below 40°F, the system will start a special process to circulate the water in the pipes. Pump and heater will be turned on for one minute. The message FrE will be displayed throughout the special cycle. During this cycle all other functions of the unit (except the alarms) are disabled.

HIGH TEMPERATURE PROTECTION: If the water temperature exceeds 115°F at the High Temperature probe, the system will display the message HL and will turn the heater off. If the water temperature exceeds 122°F at the High Temperature probe, the high limit circuit will turn off all outputs. In either case, after the water temperature has cooled down, pressing any key on the spaside panel control will restart the system.

If the spa water temperature does not seem to be elevated, the HL reading may have been caused by poor water flow or electrical line interference (e.g. thunderstorms, voltage surges, etc.). Simply reset and monitor the system.

NOTE: After the unit cools down below 115°F, the Freeze Protection Circuit can automatically engage if needed.

SYSTEM ERROR INDICATORS

FLC	FLC	Flow Related Problem**
FLO	FLO	Flow Related Problem**
PrH	PrH	High Temperature Probe Problem**
Prr	Prr	Temperature Probe Problem**
FrE	FrE	Freeze Protection Mode Engaged*
HL	HL	High Temperature Protection*

*See Section Above - **Contact Your Local Dealer for Service

DEFAULT SYSTEM OPERATIONS: When power is applied, or there is a temporary loss of power, the system will initiate its default programming. The filter cycle starts 24 hours after the system has been powered up, filters for one hour, and then repeats every 24 hours. The maintained temperature will default to 95°F. The freeze protection feature will stay in effect.