



## K-19



Two pump system



Single 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.

### Spa functions



#### Key 1

Press **Key 1** key to turn Pump 1 on at low speed. Press a second time to turn pump to high speed (with a dual-speed pump). A third time turns pump off.

A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.



The "Pump 1" indicator lights up when Pump 1 is on.

▲ With dual-speed pump, indicator will flash when Pump 1 is on at low speed.



#### Key 2 (2 Pump System)

*(If equipped with Pump 2)*

Press **Key 2** key to turn Pump 2 on at low speed. Press a second time to turn pump to high speed. A third time turns pump off.

A built-in timer automatically turns pump off after a predetermined period of time, unless it has been manually deactivated first.



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

▲ The indicator will flash when Pump 2 is on at low speed.



#### Key 2 (2-Pump/Blower System)

*(If equipped with blower)*

Press **Key 2** to turn Pump 2 on at high speed. Pressing a second time turns blower on. A third press turns Pump 2 off but leaves blower on. A final press turns blower off.

A built-in timer automatically turns Pump 2/blower off after 20 minutes, unless Pump 2/blower has been manually deactivated first.



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



The "Blower" indicator  
▲ lights up when blower is on.



### Light key

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

- ☀ The "Light" indicator lights up
- ▲ when light is on.



### Up/Down keys

Use **Up** or **Down** key to set desired water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.

- 📍 The "Set Point" icon indicates that the display shows the desired temperature, NOT the current water temperature!
- ▲

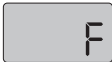


### Off Mode (If present)

This mode allows you to stop all outputs for 30 minutes to perform a quick spa maintenance.

Press and hold **Key 1** key for 5 secs to activate the Off mode.  
Quick press **Key 1** key to reactivate the system before the expiration of the 30-minute delay.

While the Off mode is engaged, the display will toggle between **OFF** and the water temperature.



### Setting the temperature display units

Quick press **Light** key again. The display will show either °F or °C.

Use **Up** or **Down** key to change units.  
Press **Light** key a last time to go back to normal mode.

°F = Fahrenheit - °C = Celsius

## Programming the purge / filter cycles

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### Programming filter cycles

Depending on system configuration the system performs either purge cycles or filter cycles. To program the filter cycles, you must enter these parameters: duration and frequency. During a filter cycle, pumps & blower run at high speed for one minute to purge the plumbing. Pump 1 or CP then runs at low speed for the remaining of the cycle.



### Setting filter cycle duration

Press and hold **Light** key until the display shows **dx**, with "xx" representing the duration in hours. (Default: 2 hours).

Use **Up** or **Down** key to change setting.  
0 = no filtration      24 = continuous filtration

Note: it's not recommended to set this to "0".



### Filter cycle frequency

Press **Light** key again. The display will show Fx, with "x" representing the number of filter cycles per day (up to 4). (Default: twice a day).

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

When the desired setting is displayed, press **Light** key to confirm. A filter cycle will start immediately.

- ⋮ The "Filter" indicator lights up
- ▲ when a filter cycle is on.

## Programming purge cycles

To program the purge cycles, you must select the frequency. During a purge cycle, all pumps and the blower run for one minute. To set purge cycles:



### Purge cycle frequency

Press and hold **Light** key until the display shows Fx, with "x" representing the number of purge cycles per day (up to 4).

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

When the desired setting is displayed, press **Light** key to confirm. A purge cycle will start immediately.

- ⋮ The "Filter" indicator lights up
- ▲ when a purge cycle is on.

## Water temperature regulation

In a regulation cycle, the system first generates water flow through the heater housing and the plumbing, in order to ensure accurate water temperature readings as well as avoiding heater activation in dry conditions.

After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at Set Point.

- ⋮ 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.
- ▲

## Smart Winter Mode

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

- ❄ The "Smart Winter Mode" indicator lights up when the Smart Winter Mode is on.
- ▲

## Cooldown

While performing this task, the heater is not allowed to turn on and its icon flashes.



## Troubleshooting

Hr

**Hr**  
An internal hardware error has been detected.  
Contact dealer or service supplier.

HL

**HL**  
The system has shut the heater down because the temperature at the heater has reached 119°F (48°C). Do not enter the water! Remove the spa cover and allow the water to cool down, then shut power off and power your spa up again to reset the system.

AOH

**AOH**  
Temperature inside the spa skirt is too high, causing the internal temperature to increase above normal limits.  
Open skirt and wait until error clears.

FLO

**FLO**  
The system does not detect any water flow while the primary pump is running. Check and open water valves. Check for water level.  
Clean filter. If the problem persists, call your dealer or service supplier.

Prr

**Prr**  
A problem is detected with the temperature probe.  
Call your dealer or service supplier.

OH

**OH**  
The water temperature in the spa has reached 108°F (42°C).  
Do not enter the water! Remove the spa cover and allow the water to cool down to a lower temperature. Call your dealer or service supplier if problem persists.

rLy

**rLy** (*Present only on older software version*)  
The system has detected a stuck relay error.  
Call your dealer or service supplier.

UPL

**UPL**  
No low level configuration software has been installed into the system.  
Call your dealer or service supplier.

