Troubleshooting

HR
An internal hardware error has been detected in in.xe.
Contact dealer or service supplier.

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

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

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
The system has detected a stock relay error in in.xe.
Call your dealer or service supplier.

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

in.k450 keypads for in.xm & in.xe spa systems

in.k450
Compact full-function keypads
for in.xm & in.xe spa systems

Anewa's new series of keypads features a large LCD display and raised keys that let users control all spa functions and programming directly from spa side. in.k450 comes in an easy-to-install, waterproof plastic enclosure and is designed to maximize user experience.

Spa Functions

**On/OFF Key**
- Depending on the spa manufacturer, this key may have different functions:
  - On/OFF Standby mode
  - On/OFF display state
  - On/OFF Standby mode or standby mode of the economy mode

**Standby Mode**
- Use On/OFF key to power keypads off.
- Press the keypads for the remaining time before the system automatically starts Standby mode. This can also be done by pressing again the On/OFF key.

**Pump 1/2 Keys**
- **Press Pump 1 Key to turn Pump 1 on or off.**
- **Press Pump 2 Key to turn Pump 2 on or off.**
- **Press Pump 1/2 Key to turn Pump 1 and Pump 2 on or off.**

**Light Key**
- **Press Light Key to turn light on or off.**
- **Press Light Key to turn light on or off at high intensity.**
- **Press Light Key to turn light on or off at low intensity.**

**Programming Steps**

**Up/Down Keys**
- Use Up or Down key to set desired temperature.
- The temperature setting will be displayed for 3 seconds after the new selection.

**Set Point Icon**
- Indicates that the display shows the desired temperature, NOT the current water temperature.

**Program Key**
- Use Program key to display service data and pending or holding keys.

**Setting the Time**
- Enter program mode by pressing Program key. The display will show the current time.

**Setting the Temperature**
- Enter program mode by pressing Program key. The display will show the current temperature.

**Setting the Filter Cycle**
- Enter program mode by pressing Program key. The display will show the filter cycle mode.

**Filter Cycle Start Time**
- Enter program mode by pressing Program key. The display will show the filter cycle start time.

**Filter Cycle Duration**
- Enter program mode by pressing Program key. The display will show the filter cycle duration.

**Filter Cycle Frequency**
- Enter program mode by pressing Program key. The display will show the filter cycle frequency.

**Setting Economy Mode**
- Use Economy Mode Key to set the economy mode.

**Setting Economy Duration**
- Enter program mode by pressing Economy Mode Key. The display will show the economy mode setting.

**Setting Economy Start Time**
- Enter program mode by pressing Economy Mode Key. The display will show the economy mode start time.

**Setting Economy End Time**
- Enter program mode by pressing Economy Mode Key. The display will show the economy mode end time.

**Setting Temperature Unit**
- Use Temperature Unit Key to change setting.

**Smart Winter Mode**
- Use Smart Winter Mode to protect your system from the cold by turning pumps on several times a day to prevent water from freezing in pipes.

**Corddown**
- After freezing the spa water to the desired Set Point, the heater is turned off, and the associated pump is turned off. When the pump is turned on, it will pump water for 10 minutes to ensure adequate circulation of the water.

**Water Temperature Regulation**
- In regular temperatures, the system waits for water flow through the heater and plumbing, in order to ensure accurate water temperature readings as well as avoiding heater overload in dry conditions.

After verifying pump activation and stable water temperature readings are met, the system automatically turns the heater on in blocks and increases/decreases blocks as the temperature fluctuates.

Notes:
- The display shows the time in a 24-hour format.
- The display shows the current temperature.
- The display shows the current filter cycle.
- The display shows the current filter cycle start time.
- The display shows the current filter cycle duration.
- The display shows the current filter cycle frequency.
- The display shows the current economy mode.
- The display shows the current economy duration.
- The display shows the current economy start time.
- The display shows the current economy end time.
- The display shows the current temperature unit.
- The display shows the current smart winter mode.
- The display shows the current corddown.

Aewari

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function description

Instructions

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
Press Key 2 key to turn Pump 2 on at high speed. Pressing a second time turns Pump 2 off.
A final 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/blower is on.

Key 2 (2 Pump/Blower)
Press Key 2 to turn Pump 2 on at high speed. Pressing a second time turns Pump 2 off.
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/blower is on.

Light key
Press Light key to turn light on.
Press Light key 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 key

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!

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 d00, with ‘x’ 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.

Instructions

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.

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 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.

Cool Down

After heating the spa water to the desired Set Point, the heater is turned off, but its associated pump (Pump 1, low-speed or CP) remains on for a certain amount of time to ensure adequate cooling of the heating element, this prolongs its useful life. The heater icon flashes during this time.