



# Quick Reference Card

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

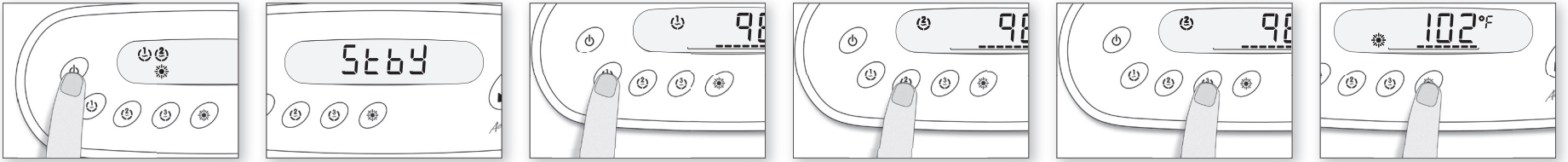


### in.k450

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

Aeware's new series of keypads features a large LCD display and raised keys that let users control all in.xm 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 or quick enable of the Economy mode.

**Standby Mode\***: Use On/Off key to pause all pumps.\*\* Progress bar will display the remaining time before the system automatically exits Standby mode (user can also exit Standby mode at any time by pressing again on On/Off key).

In order to warn the user, the spa light will flash for a few seconds before the exit of Standby mode and restart the pumps. The "Stby" message is also displayed during Standby mode.

\* With in.xe Spa Packs: Press and hold Pump1 key for 5 secs. to activate Standby mode.

\*\* Pump will stay turned on if there is a request for more heat.

#### Pump 1 key

Press Pump 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.

\* If single speed pump: press Pump key to turn pump on. Press Pump key again to turn pump off.

#### Pump 2 key

Press Pump 2 key to turn Pump 2 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.

#### Pump 3 / Blower key

Press Pump 3/Blower key to turn Pump 3 /Blower on. Press a second time to turn pump or blower off.

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

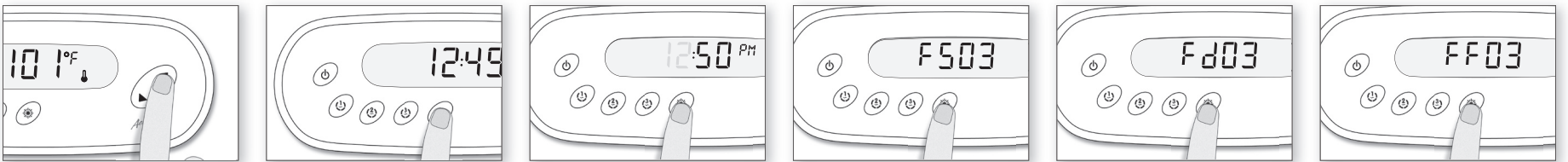
**Note: Pump 3 option available with in.xm model only.**

#### Light key

Press Light key to turn light on at high intensity. Subsequent presses change light intensity. A last press turns light off.

A built-in timer automatically turns light off after 2 hours, unless it has been manually deactivated first.

#### Programming Steps



#### 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!

#### Program key

Use Program key to display time or enter Programming menu by pressing and holding key. In Programming mode, the following parameters can be set: time, filter cycle start time, filter cycle duration, filter cycle frequency, and temperature unit.

**Note: Light key is used as Program key if this key is not present.**

#### Setting the time<sup>1</sup>

Enter Programming mode by holding Prog. key pressed down for 3 sec. The display will show the current time setting.

**Setting the hour:** Use Up or Down arrows to change hour setting (AM/PM).

**Setting the minutes:** Press Prog. key a second time.

Use Up or Down key to change hour setting.

#### Setting filter cycle start time<sup>1</sup>

To program the filter cycle, you must enter these parameters: the start time, duration and frequency. During a filter cycle, pumps run for one minute to purge the plumbing, then Pump 1 runs for the programmed number of hours.

Press Prog. key a third time. The display will show FSxx, with "xx" representing the starting hour. Use Up or Down key to change setting.

#### Setting filter cycle duration

Press Prog. key a fourth time. The display will show Fdxx, with "xx" representing the duration in hours.

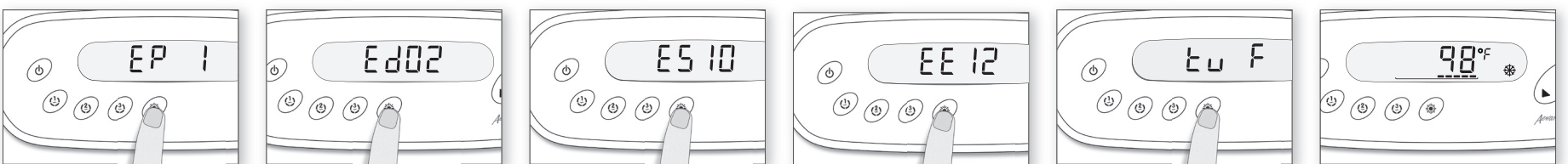
Use Up or Down key to change setting.

#### Filter cycle frequency

Press Prog. key a fifth time. The display will show FFxx, with "xx" representing the number of filter cycles per day (up to 4).

Use Up or Down key to change setting.

<sup>1</sup> accessible only if clock feature is available.



#### Setting economy mode

This mode allows you to lower the temperature set point of the spa by 20 °F (11 °C) during a certain period of the day.

Press Prog. key a sixth time. Use Up key to enable the economy mode, the display will show EP 1 or use Down key to disable economy mode, the display will show EP 0.

#### Setting economy duration<sup>2</sup>

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

Use Up or Down key to change setting.  
0 = no filtration<sup>3</sup>  
24 = continuous filtration

<sup>2</sup> Feature is available in in.xe Spa Packs only.

<sup>3</sup> It's not recommended to set this to "0".

#### Setting economy start time<sup>1</sup>

Press Prog. key a seventh time. The display will show ESxx, with "xx" representing the starting hour.

Use Up or Down key to change setting.

#### Setting economy end time<sup>4</sup>

Press Prog. key a eighth time. The display will show EExx, with "xx" representing the ending time in hour.

Use Up or Down key to change setting.

<sup>4</sup> Feature is available in in.xm Spa Packs only.

#### Setting temperature unit

Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). Press Prog. key a ninth time. The display will show either °F or °C.

Use Up or Down key to change setting.

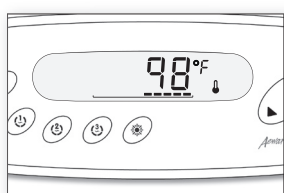
Press Prog. key once more to go back to normal mode.  
**Note: "F" will be displayed in in.xe Spa Packs.**

#### 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.

#### Cooldown

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 predetermined period of time to ensure adequate cooling of the heating element, this prolongs its useful life. The heater icon flashes during this time.



#### 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.

**Note: Animated icons & progress bar features available with in.xm Spa Packs only.**