



# HOTRUN-X

## Installer only set-up manual



**ELECTRIC AND  
DIGITAL CONTROLLED  
WATER HEATERS**

Revolutionary  
temperature  
control and  
limiter

The most advanced way  
saving energy and water

# HOTRUN-X Installer only set-up manual

This manual is meant for the installer to use during the installation to set-up the variable options of ELWA HOTRUN-X water heaters

## Hotrun X-range - Initiation instructions

There are three soft touch-keys used in multiple combinations for the set-up mode: from left to right the buttons are: UP, DOWN, ON/OFF. With each step you press and hold the buttons in the sequence described to get into the desired setting modes.

1. When the power comes on for the first time, you will hear a beep sound, and the LED display will come on for 1 second, then go off and enter the standby-mode (Display will only show "STANDBY", to show that the product is connected to a power supply circuit). Press ON/OFF. The display will flash 3 times the set temperature (Factory default 40°C showing "STANDBY" afterwards).

2. Once the power is on you can set the required temperature. Press "UP" to increase the temperature by one degree, press "DOWN" to decrease the temperature by one degree. You can set temperature from 25°C to 60°C. After setting the temperature the display will flash again 3 times.

**Diagnostics while running water:** (can be done in both ON or OFF state)

3. **To check the actual flowrate:** while the water is running, press and hold the "Down"-button for 5 seconds: the display will show the water flow (value + water-flow indicator) showing 10 in display means the flow is 1.0L/min, 25 is 2.5L/min

4. **To show the inlet water temperature:** Press and hold the "UP"-button for 5 seconds. The display will show the inlet water temperature (number + °C); Press the ON/OFF-button or after 5 seconds to return to the normal display mode;

## 5. Programming of the temperature limiter

You can program the required temperature limit as required by the AS/NZ3500 AU Plumbing Code, Health Department or customer requirements. Turn the water heater " off " with the ON/OFF-button, press & hold "Up" + "Down" simultaneously for 5 seconds, one beep sounds, and "60 + °C" appears on the screen. You can adjust the limiter by using the up / down buttons and set the maximum temperature limit. "60 °C" means the highest temperature is 60°C (factory default value), which can be freely adjusted to any temperature between 30°C and 60°C. After setting the temperature required, press the On/Off button to save.

## 6. Legionella Cleaning Cycle

The Legionella Cleaning Cycle has been approved by all Health Departments in Australia.

To activate the patented Legionella Cleaning Cycle: Turn the water heater off with the On/Off button, and then press the "UP" and then the "ON/OFF" simultaneously and keep both pressed for 5 seconds to enter the Thermal Disinfection mode (heating the water to 65°C for 10 minutes).

The screen will display a countdown of 10 minutes, 10, 09, 08 ... 01 continues to flash. After 10 minutes, the water heater will automatically shut down and exit the disinfection mode. It will revert back to the settings.

## 7. To pair a remote-control panel

Turn the water heater off with the "ON/OFF" button. Press the "UP" and then the "ON/OFF" button simultaneously for 5 seconds to enter the remote-control pairing mode. "PP" appears on the screen. Press any button on the remote control to match. Turn the water heater on and test the remote-control functions.

## 8. Setting the power rating to match the application and the power circuit installed

To select the power setting, turn the water heater off with the on/off button, and then press and hold the "UP" and then "DOWN" and then "ON/OFF" buttons in this sequence and hold simultaneously for 5 seconds, a beep sounds to confirm the program mode. Release all buttons. A value will flash in the display, for example "60" (flashing) means the power rating is set to 6KW.

### **HOTRUN X6 settings:** (default 60=6kWatt)

After entering this selection mode as described above, press "DOWN" button display "48" indicates the maximum power 4.8KW; press "DOWN" button display "38" indicates the maximum power of 3.8KW; press "DOWN" button display "28" indicates the maximum power of 2.8KW; Press "UP" button to increase the power setting after setting, press the "ON/OFF" button (or don't touch for 5 seconds) to save. For your reference:

Start-up flowrates: 2.8kW > 1.2 L/min, 3.8kW > 1.4 L/min, 4.8kW > 1.4 L/min, 6.0kW > 1.6 L/min

If the water flow is less than the above values, the system will stop heating.

### **HOTRUN X11 settings:** (default HH=11kWatt)

After entering this selection mode as described above, press "DOWN" button display "96" indicates the maximum power 9.6KW; press "DOWN" button display "86" indicates the maximum power of 8.6KW; press "DOWN" button display "76" indicates the maximum power of 7.6KW; Press "UP" button to increase the power setting

After setting the power rating press the "ON/OFF" button (or don't touch for 5 seconds) to save. For your reference:

**Start-up flowrates: 7.6kW > 1.8L/min, 8.6kW > 2.0L/min, 9.6kW > 2.2L/min, 11.0kW > 2.4L/min**

If the water flow is less than the above values, the system will stop heating.

### 9. Set the appropriate flow rate

Once the power rating has been set, the flow rate needs to be set to make sure the water heater will reach the required temperature all year round, even in the coldest winter time. We recommend to set the water heater to the below flow rates with the supplied flow controller to achieve an average temperature rise of 25-30°C. If the outlet temperature is limited or if the water heater has been installed in warmer climate zone, the flow rate can possibly be adjusted to a higher value. Equally for cold winter climate zones, you might have to select a lower flow rate.

HOTRUN model	X6		X11	
Power Settings	2.8/3.8/4.8/6.0 kWatt		7.6/8.6/9.6/11 kWatt	
Voltage	1-Phase 230/240 V		1- phase 230/240V OR	
			2- phase 230/240V	
Current	1-Phase: 16, 20 or 25 Amp		1-Phase: 32, 36, 40 or 50 A	
			2-Phase: 2 x: 16,18, 20 or 25 A	
Performance(if $\Delta T = 25^{\circ}\text{C}$ ) The maximum temperature rise depends on the inlet temperature and the flow rate set by the inlet flow-regulator)	Input power	Flow rate	Input power	Flow rate
	2.8kW	1.6 L/min	7.6kW	5.0 L/min
	3.8kW	2.2 L/min	8.6kW	5.5 L/min
	4.8kW	2.8 L/min	9.6kW	6.0 L/min
	6.0kW	3.6 L/min	11kW	7.0 L/min
Working pressure	Max 2000 kPa / 20Bar		Max 2000 kPa / 20Bar	

After setting the required temperature the display will flash 5 times, and then the actual outlet temperature will be displayed (but the set temperature value will remain).

Memory function: The water heater will remember the completed programming after a power interruption, such as the status (ON or OFF), the user set temperature, temperature limiter, rated power setting and other parameters.

All products can be equipped with our wireless remote-control option.

### Safety and fault codes:

Show	Fault condition	Failure analysis	Solution
F2	Water inlet sensor short-circuit or open circuit	Temperature probe of water inlet is faulty	Replace the temperature probe of water inlet
E1	Leakage current greater than 15mA	Leakage of electricity	Send to after-sale service
E2	The temperature is greater than 70 degrees	Exceed 70°C	Select lower power level or turn down the temperature
E3	Short circuit or open circuit of outlet water sensor	Temperature probe of water outlet is faulty.	Replace the temperature probe of water outlet.
E4	Water heater running dry	Dry burn protection	Restart machine and adjust lower power.
E5	Low flow (delayed by 5 seconds after start-up)	Low water flow rate for a long time (at the critical point of being able to start or not to start)	Clean tap spout aerator, inlet fitting filter/flow sensor and try again