

PV System User Manual

Models: 100L to 200L Hot water cylinders

Connection to your phone application



Step 1: Using your mobile phone, scan the QR code below or via Google Play or Apple iStore search for the app called 'Tuya' or smart Life - install the app.





Step 2: Open the App and Create an account. Enter email address and then request a verification code and create your password.

Step 3: Activate Bluetooth on your phone.

Step 4: In settings on your phone ALLOW PERMISSIONS for the specific application

Step 5: On Green Heat display press the down button for 3-5 seconds the WIFI icon 🛜 will flash in top right corner.

Step 6: Add device Tap "+" on the top right corner of the APP.

Step 7: Confirm your phone is connected to your Wi-Fi network to which the device will be added, enter your Wi-Fi password, and confirm. Note 2.4Ghz Wi-Fi networks ONLY.

When connected the Wi-Fi icon in the top right of display turns to a solid state the unit is connected.



System components

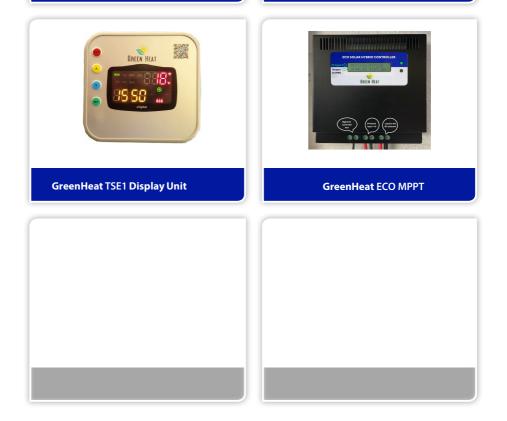


PV Panels

Number and Size of PV panels depend on the size of the **HWC** and region (high or low irradiation) in which the PV Waterheating system will be installed.



PTC Element 1500W AC, 900W DC or 2000W AC, 900W DC. Screwboss or Flangemount available.



DISPLAY

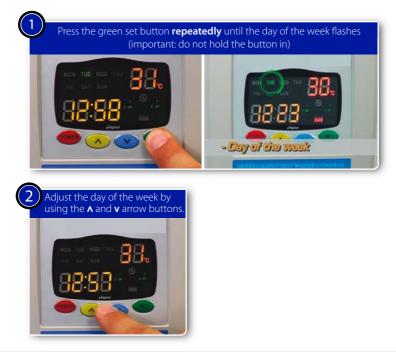
The display is the feedback mechanism to the user and displays important information about the solar system or electric HWC.

It displays the following:



Adjusting the day of the week

To adjust the day of the week, follow the steps below:



Adjusting the real time clock

To adjust the real time clock follow the steps below:



Maximum temperature settings

There are four maximum temperature settings. It is important to note that these settings apply to the four quarters of the day and not to the set times that the elements must come on.



To adjust the maximum temperature settings, press the green button **repeatedly** until the first block temperature setting is displayed. The temperature will be flashing and the number of the block will be displayed in the timer indicator block. The below screens show the temperature flashing in block number 1.



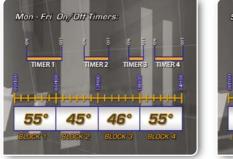
Set the temperature per block to user requirements by using \wedge and \mathbf{v} arrow keys.

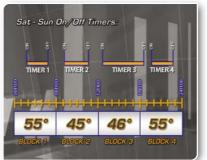
Setting DC temperature



Setting HWC element timers

There are four on/off timers that can be set with the GreenHeat. Note that you can set different timers for the weekend.





To set timer number one, follow the steps as indicated below:



Eliminating a timer

It is possible to eliminate a timer setting. To eliminate a setting follow the below steps:

Follow the steps above with on and off setting.

- Press the down arrow button until the timer setting reaches 00:00.
- Press the down arrow once more to eliminate until --:-- is displayed.

Element indicator

The element indicator shows the user when the element is switched on.

When the element indicator is on, it means that the element is switched on.

When the element indicator is flashing, it means the water has reached the maximum temperature setting and the water will be allowed to cool down 6°C at which time the element switches back again.



Hour counter

The number of hours that the element was on can be counted. If the user pushes the up and down arrows simultaneously and keep them in for 6 seconds, the number of hours will be displayed.



the number of hours with your HWC element rating, e.g. 4 kW. This then means that the user consumed 120 kWh since the last time the unit was reset.



simultaneously until the main time settings reappear.

ERROR CODES - SUMMARY

The error codes indicate various problems and warnings. Therefore these require actions from the installer.

Error code: E2 - Dry burn protection

Possible cause: Empty cylinder Thermal pocket too close to element

Action(s): Check all water connections to the **HWC**

Error code: E3 - Sensor failure water HWC

Possible cause: The sensor could be damaged or there is a connection problem.

Action(s):

Replace sensor Check electrical connections and/or plug in control unit **Error code: E5 - Over temperature protection** *Possible cause:*

HWC temperature exceeds 85°C

Action(s):

Open hot water tap to reduce temperature in geyser

Error code: E7 - Communications failure *Possible cause:* Poor contact or damaged cable

Action(s):

Check communications wire between control box and display unit

Error cod: E4 - Heating loss

Possible causes:

- Leaking hot water pipe
- Faulty valve
- Scale build up
- No power supply to the element
- Heating time set at same time of main water usage need to adjust timer to heat before usage start.
- Faulty heating element

Action(s):

Check all of the above

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