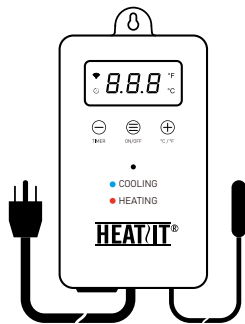


USER MANUAL



ET-31W V2.0



CAUTION

1. KEEP CHILDREN AWAY.
2. TO REDUCE THE RISK OF ELECTRIC SHOCK, USE ONLY INDOORS.
3. RISK OF ELECTRIC SHOCK. DO NOT PLUG INTO ANOTHER RELOCATABLE POWER TAPS OR AN EXTENSION CORD.
4. TRY TO ENSURE THAT THE EQUIPMENT IS KEPT DRY.

INTRODUCTION

ET-31W is a reliable 1 relay output temperature controller. It can be used for seedling germination, rooting, brewing, heating, fermentation, and more. It has plug-n-play design with 1 relay, be able to connect with refrigeration or heating equipment easily to realize ideal temperature control. The ET-31W is equipped with WIFI, which enables it to connect to the APP and supports the OTA function.

TECHNICAL PARAMETER

Input power: 120Vac 60Hz

Maximum output: Heating equipment: Max 1200W
Refrigeration equipment: Max 480W

Temperature sensor: NTC R25°C=10K/3950

Sensor length: 2m/6.56ft

Power cord length: 1.5m/5ft

WIFI standard: 2.4Ghz

Temperature display accuracy: 0.1°C/°F (<100°C/°F),
1°C/°F (>=100°C/°F)

Temp. measurement range: -30~99°C/-22~210°F

Temperature setting interval: 0.5°C/1.0°F

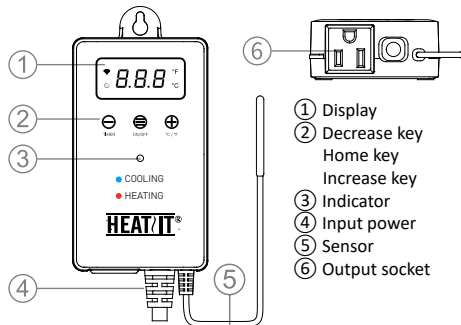
Ambient temperature: -10°C~50°C/14~122°F

Humidity: 20~80%RH (Unfrozen or condensation state)

Storage environment: 0°C~60°C/32°F~140°F

Period of quality guarantee: 2 years

SYMBOLS



WIFI

°F/°C Temperature unit

Icon flashes: Wi-Fi not connected
Icon is constantly on: Wi-Fi connected

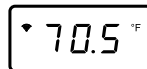


Weekly program mode has been activated.
Or in the timing function settings

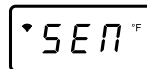
- Blue ON: Cooling
Blue blinking: Low temp. alarm / Compressor protection
- Red ON: Heating
Red blinking: High temp. alarm

FUNCTIONS

1. After powering on, the screen will display the current detected temperature.



Normal display



Sensor error

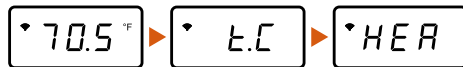
SET TEMPERATURE

In normal display mode, press the + or - keys to adjust the temperature setting. The digital tube will display the current set temperature.

SELECT OPERATING MODE

Heating and cooling mode switching

Long press the "⊞" key for 3 seconds, and the digital tube will display the setting option code. When the E.C is displayed, Press the + or - key to select HEA/Coo. HEA stands for heating, and Coo stands for cooling.



Press and hold 3s



Press +/- to alter



Click the "⊞" button to confirm and proceed to the next setting.

Schedule mode and Constant Temp mode

Select a weekly schedule for the Edit. There are 2 options:

7: each day from Mon to Sun can be set individually.

5+1+1: 5 days from Mon to Fri have the same events, Sat and Sun can be set individually.

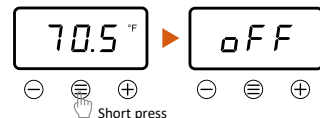
Note: The weekly program settings can only be configured through the APP.

DEFAULT PARAMETERS

Day	Stage1	Stage2	Stage3	Stage4
Mon-Fri	07:00 22.0°C	08:30 19.0°C	17:00 22.0°C	22:00 19.0°C
Sat/Sun	08:00 22.0°C	08:30 22.0°C	17:00 22.0°C	22:00 19.0°C

OTHER QUICK FUNCTIONS

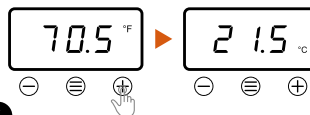
-Short press the menu key in the middle to turn off and on the device.



-On the main page displaying the temperature, long-pressing the "-" key allows you to enter the timing settings. Once the countdown is over, the thermostat will automatically shut down.



-Long press the "+" key to directly switch the display unit of the temperature.

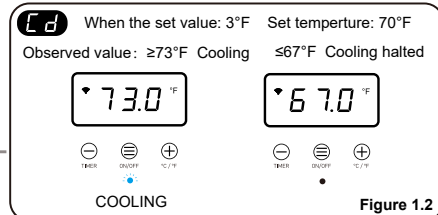
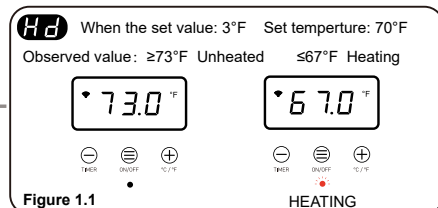


SET OPTION CODE

The setting order is as shown in the table below.

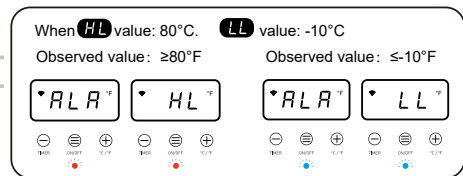
Code	Explanation	Default
EE	Switch between heating and cooling modes. Press +/- to alter the HEA/Coo setting. HEA stands for heating, and Coo stands for cooling.	HEA
Hd	Heating operating temperature difference. Press +/- to alter the value in the range of 1~30°F/1~17°C. Default 3°F.(Example ref figure 1.1)	3
Cd	Cooling operating temperature difference. Press +/- to alter the value in the range of 1~30°F/1~17°C. Default 3°F.(Example ref figure 1.2)	3

Code	Explanation	Default
HL	High Limit temperature of the set temp. Press +/- to alter the value in the range of -22~210°F. Default 200°F	200 °F
LL	Lower Limit temperature of the set temp. Press +/- to alter the value in the range of -22~210°F. Default -12°F	-12 °F
CP	Compressor Protection. To prevent the compressor from starting continuously and frequently. Wait some time before the compressor starts cooling. Press +/- to alter the value in the range of 1~10min. Default 3 min. The blue indicator is blinking while waiting.	3
SC	Sensor Calibration. Press +/- to alter the value in the range of -10~10°F. Default 0°F	0 °F
CF	°C and °F can be selected. Press +/- to alter. Press Home to return to the interface of detection and temperature settings. This is the last setting.	°F
FoC	Factory data reset	No



ALARM

When the detected temperature is lower than the low temperature limit, the Nixie tube LL and ALA flicker.
When the detected temperature is higher than the high limit temperature, the Nixie tube HL and ALA flicker.



WIFI CONNECTION

Step 1: Scan the QR code or download the Warmme from APP store/ Google browser.
Step 2: Register and log in with email address the APP.
Attention: Read and agree 'Privacy Policy' and Service agreement before registration.
Step 3: Click 'Add Device' or '+' on the top right to add device.
Step 4: Click 'WiFi thermostat'.
Step 5: If the WIFI icon flash quickly, Click 'Press to connect'.
Step 6: Enter Wifi password, and click 'Confirm'.
Step 7: If device added successfully, you can change the device name and set region. Then, click 'Done'.
Attention: If failed, confirm the Wifi is 2.4G version and check the Wifi signals, then, use the 'AP mode' in the top right to connect again.
Step 8: You can check the actual temperature and set temperature etc. at the control interface.
Note: If the WIFI is not stable, the thermostat may be disconnected. If so, please press + and - simultaneously for three seconds to make the WIFI signal flash quickly and reconnect to the Internet. The mode will be switched to Hold mode automatically when the thermostat is disconnected.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.