EVOHEAT
HOT H_2O TECHNOLOGY

INSTALLATION & OPERATION MANUAL

EVO315-C

HOT WATER HEAT PUMP

Contents

1. Introduction

This manual contains information relating to the installation, troubleshooting, operation, and maintenance of this EvoHeat unit. Instructions in this manual must always be followed. Failure to comply with these recommendations will invalidate the warranty. Should you have any questions or require technical support, call the EvoHeat office on 1300 859 933 to speak to our team.

The data and information contained in this manual is correct at the time of publishing and is subject to change without notice. For the most up to date manual, contact EvoHeat directly.

TECHNICAL DATA		Evo315-C
Storage Capacity	L	315
Max Temperature Setting	˚C	60
Power Input	kW	1.46
Heating Output	kW	6
Noise Rating	dB(A)	52
Running Current	A	6.08
Power Supply		220-240V/1/50Hz
Refrigerant	g	R134a / 2700g
Water Inlet/Outlet Size	mm	20 (3/4")
Auxiliary Heating	kW	4.8
Operating Temperature Range	˚C	-5 to 43
Hot Water Recovery	L/hr	126
With Hydro Boost	L/hr	225
Net Weight	kg	157

The EVO 315-C is the next evolution in water heating with advanced energy efficiency technologies and built-in smart features to ensure you're provided with clean, safe, and economical hot water all year round.

Conforms to AS 3498-2020 Australia and New Zealand

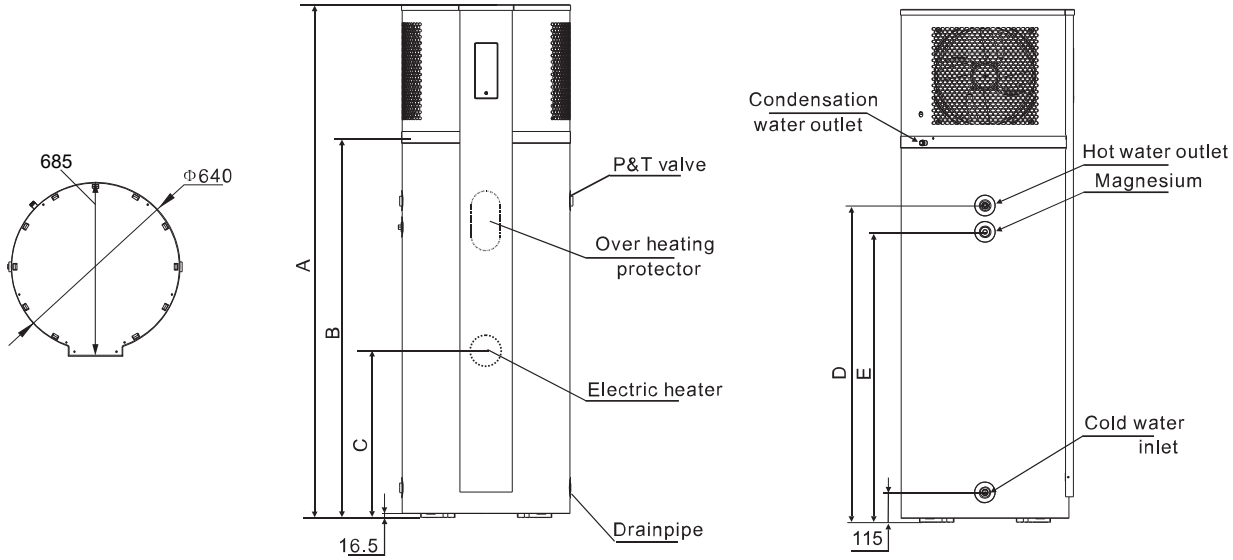
Measurement conditions: Instant heating: Ambient air temperature 20°C/15°C, water inlet 15°C, water outlet 55°C, highest setting temperature: 75°C

Working Temp Range

1. Ambient temperature is -5°C ~ 43°C (Heat Pump)
2. The max temperature of water tank is 70

Operating parameters: The range of the operating water pressures: 0.15~0.85MPa

2. Dimensions



Evo315-C	A	B	C	D	E	DIAMETER
	2250	1650.5	593	1411	1311	640

QUICK START GUIDE
EVO315-C

BEFORE YOU START

Register Your Warranty

Registering your EvoHeat product protects your investment by safeguarding your warranty for future reference. This enables our team to retrieve the relevant information regarding your purchase quickly and efficiently, to fulfil any service requirements.

Scan the QR code to register quickly and easily!

https://evoheat.com.au/warranty-registration/

INITIAL SETUP

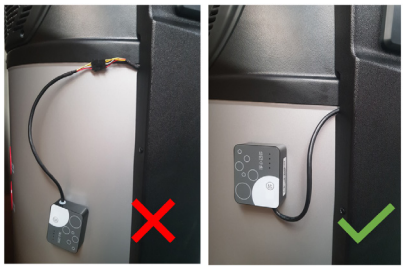
1. Press and hold for one second to power on the unit.
2. To set the time:
   a. Press once so the hour digit starts flashing. Use to adjust the hour and press to confirm, then repeat for the minute, day, month and year.
   b. Press at any stage to cancel.
3. Press until is displayed. This will activate ‘Eco Heating’ (Heat Pump only) mode and will provide the most efficient heating.
4. During periods of unusually high hot water demand (such as additional occupants staying with you), you can activate ‘High Requirement’ mode by pressing until is displayed.
5. In any event where there is a failure within the system, the Electric Element (Hydroboost Mode) can be engaged by pressing the button until is displayed. This will provide emergency water heating until service can be attended.

WI-FI MODULE CONNECTION (OPTIONAL UPGRADE)

The unit comes with the cable protruding from behind the front panel as per the image.

If you **DO NOT** plan to utilise Wi-Fi: The connecter cable can be pushed behind the panel.

If you **DO** want to use Wi-Fi: Remove the waterproof cover and connect the Wi-Fi module and set up as per the Wi-Fi manual.



Install the Wi-Fi module upright (cable pointing down), with the connection placed behind the front panel, see left:

4. Safety Instructions

Ensure that all safety instructions and recommendations are always adhered to. Failure to comply with these recommendations could void the warranty and cause injury or death.

- Installation, repair, or relocations must only be done by a fully qualified technician.
- The Evo315-C must be installed to conform to all relevant Australian Standards and Industry Codes including but not limited to: Electrical & Electrical Safety, Plumbing & Hot Water Storage, Heat Pump Installation & Operation
- A circuit breaker must be installed for the unit.
- Ensure the unit has a good power connection and earthing to avoid the risk of electrical shocks.
- Ensure that there are no leaks on both the plumbing and drainage fittings.
- The unit must not be installed near flammable gas or have flammable aerosols sprayed in the vicinity.
- The base that the unit is installed on must be level and stable.
- If the supply cord is damaged, it must be replaced by a qualified service agent.
- This appliance must be installed in accordance with national wiring regulations.
- Installation must also comply with any local, state or federal codes at the installation site. Failure to comply can void your warranty, damage your unit or possible cause injury or death. Plumbing must comply with AS/NZS3500.4
- Before obtaining access to terminals all supply circuits must be disconnected.
- A P&T valve **MUST** be installed in the tank. When the tank pressure reaches 0.85MPa or when the tank temperature reaches 99°C, the P&T valve will open automatically so as to reduce the pressure or temperature decrease.
- In the event of the unit malfunctioning, shut off the power supply and contact your supplier or EvoHeat.
- In order to use the unit correctly, run the unit at environment temperature -5°C - 43°C
- The unit contains sophisticated electronic devices, do not use unsafe water sources such as lake or groundwater.
- The unit produces hot water and will also have hot fittings, therefore should not be touched to avoid injury.
- Do not drill any fixings or attachments into the outer casing of the tank. Drilling into the outer casing of the tank may damage the heating coil and **WILL VOID WARRANTY.**
- If the unit stops and you restart the unit or turn it on manually, the unit will not start to run again for approximately 3 minutes. This is a protection feature to safeguard the compressor.
- The handle of the P&T safety valve should be tested once every six months to remove the calcium carbonate deposits and guarantee there is no blockage in the device.
- Once installation is complete, check that all connections are secure before the power is turned on.
- The installer is to explain to the end user how to operate and maintain the unit in accordance with this instruction manual.
- Evo Industries Australia Pty Ltd will not be held responsible for any damages or injuries caused by the incorrect installation of this hot water system.
- A maintenance programme must be carried out as recommended in this manual to ensure ongoing reliability.

To reduce the risk of excessive pressures and temperatures in this water heater, install temperature and pressure protective equipment required by local codes and no less than a combination temperature and pressure relief valve certified by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials, as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSIZ21.22. This valve must be marked with a maximum set pressure not to exceed the marked maximum working pressure of the water heater. Install the valve into an opening provided and marked for this purpose in the water heater, and orient it or provide tubing so that any discharge from the valve exits only within 6 inches above, or at any distance below, the structural floor, and does not contact any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances.

Hydrogen gas is produced in a hot water system served by this heater that has not been used for a long period of time (2 weeks or more). Hydrogen gas is extremely flammable. To reduce the risk of injury under these conditions, it is recommended that the hot water faucet be opened for several minutes at the kitchen sink before using any electrical appliance.

The appliance is fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules.

Always use a suitably qualified Electrician to perform any electrical work, they must read the manual before connecting.

Ensure all cabling, circuit breakers, and protections are of a suitable size and specification in accordance with electrical wiring legislation for the heater being installed. Ensure to check that there is adequate voltage and current available at the heater connection to run the unit.

WARNING

THIS PRODUCT CONTAINS A BUTTON BATTERY

If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours.

Keep batteries out of reach of children.

If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.

5. Installation

5.1 System Installation

Upon receiving the unit, check the packaging for any obvious signs of damage. Inform EvoHeat immediately if there is any evidence of rough handling.

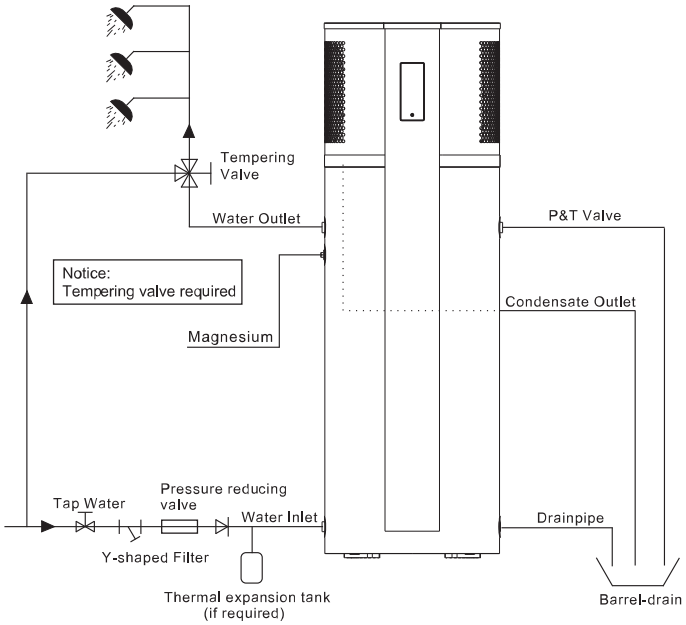
Do not drill any fixings or attachments into the outer casing of the tank. Drilling into the outer casing of the tank may damage the heating coil and WILL VOID WARRANTY.

The P&T valve attached with the unit must be installed. Failure to do so will cause damage to the unit and possible personal injury.

Drain the water tank through the drain valve at the bottom part of the unit.

Do not use stainless steel fittings to connect directly with other metals to prevent galvanic corrosion.

Note: A pressure releasing valve is to be fitted within the installation. Spec of P&T valve: Pressure: 0.85MP Temperature: 99°C



Water Inlet or Outlet Pipes: The specification of the water inlet and outlet thread is BSP3/4 (internal thread). Pipes must be heat-resistant and durable.

Piping for the P&T Valve: The spec of the valve connecting thread is BSP3/4 (internal thread). After installation, confirm that the drainpipe outlet is exposed in the air. When the flexible drainpipe is joined to the pressure relief orifice of this valve, ensure that the flexible drainpipe is pointing downwards and exposed in the air.

5.2 Handing & Transportation

The unit should be stored and/or transported in its shipping container in an upright position and without water charge. For transport over short distances, and provided due care is exercised, an inclination angle of up to 30 degrees is permitted. During transport and storage, ambient temperatures of -10 to +60 degrees Celsius are permissible.

Forklift Transportation	Manual Transportation
The unit must remain mounted on the pallet and lifted at minimal speed. Due to its top heaviness, the unit must be secured against tipping over and placed on a level surface.	Ensure that the maximum permissible inclination angle of 60 degrees is not exceeded. If transport in an inclined position cannot be avoided, the unit should be left to rest at least one hour after it has been moved into final position before operation.

5.3 Location of Installation

The Evo315-C is designed for external installation, however, where possible installing the unit under the house eaves or in a sheltered environment may help prolong the life of the system.

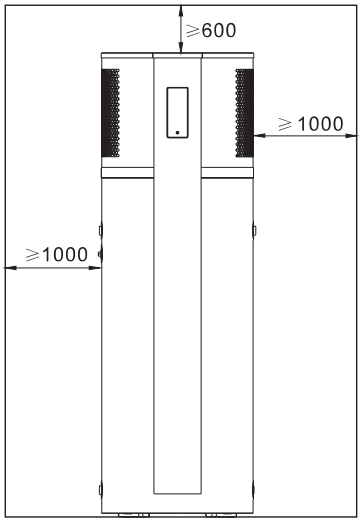
Heat pumps operate most efficiently with warmer air temperatures, and the outlet air from the unit will always be colder than the inlet air. Therefore, it is advisable to install the unit so it receives the warmest air temperatures possible and that the cold air is not able to recirculate back into the unit.

5.3.1 Indoor Installation

- The unit may be able to be installed in an unventilated room exceeding 25m^3 in volume.
- Venting of cold air is advised to prevent the air temperature dropping and lowering the efficiency of the unit.
- Think of the unit as a 3kW air conditioner for the effect it will have on a closed room.

TO COOL A ROOM	TO MAINTAIN NORMAL ROOM TEMPERATURE
Install the unit so the outlet from the heat pump is blowing INTO the room. The room MUST have some form of air outlet otherwise the performance of the unit will suffer significantly.	Install the unit so the outlet from the heat pump is blowing OUTSIDE the room. The room MUST have some form of air inlet otherwise the performance of the unit will suffer significantly.

5.4 Airflow Clearances



The Evo315-C must be installed with sufficient clearances to allow airflow to circulate through the unit, it is advised to keep a minimum gap between walls/fences etc of:

- **1000mm on the air inlet & outlet sides**
- **300mm rear clearance**
- **600mm overhead clearance**

Without sufficient airflow, discharged cold air will recirculate into the unit and consequently lower the heating efficiency.

If the installation location does not comply with these suggested clearances, contact EvoHeat's Tech Support to discuss possible solutions.

5.5 Cable Connection

The power cable for power supply of the unit is stored in the back of the unit. The unit requires an isolating switch as required by local laws. If the power cord is damaged, it must be replaced by a qualified electrician.

5.6 Filling the Tank

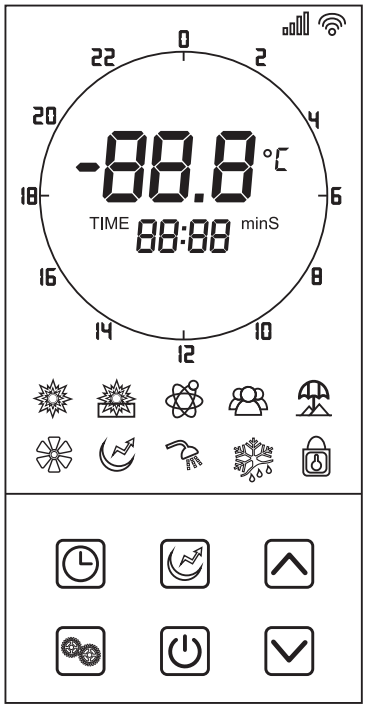
Open a hot water tap inside the house. Open the cold-water inlet valve into the Evo315-C to fill the tank. When water begins flowing out of the hot water tap inside the premises, turn off the hot water tap.

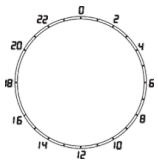
5.7 Initial Start-Up

PRE-INSPECTION	TRIAL OPERATION
Check the water supply to the tank and pipe connections for possible leaks. Check that the following devices are installed and operating correctly: • Drainpipes • P&T Valve • Filter on inlet • Water softening and pressure reducing devices if required. Check that all power connections are secure before switching on. Check that the installation space is adequate.	Switch on the unit by using the controller. If any unusual noises occur, switch the power off and consult your provider. The parameters have been pre-set to a temperature of 60 degrees. Check that the unit is operating by looking for an increase in water temperature over time.

6. Operation

6.1 The Controller



	ON/OFF	Turn the unit on or off.
	UP	Select options to increase values
	DOWN	Select options to decrease values
	CLOCK	Set the clock or the timer.
	HYDROBOOST	Turn on/off the electric heater
	MODE	Switch unit running modes or save setting parameters
	**TOUCH TIMING**	Touch timing settings

	DEFAULT MODE **ECO HEATING MODE**	The heat pump system will start according to the water temperature and target temperature. The electric heater always will be off. The default mode of operation is ECO mode. Any change in operation mode will be in effect for the current heating cycle only; i.e., the unit will return to the default ECO mode once the current cycle is completed.
	HEATING MODE	The unit will start according to the water temperature and target temperature. The electric heater will not start immediately. After 200 minutes, the unit will judge if it has reached target temperature. If not, the electric heater will start.
	INTELLIGENT MODE	The unit will automatically judge the operation mode according to the ambient temperature.
	HIGH REQUIREMENT MODE	The difference between heating mode and high requirement mode is the delay time of electric heater. In the high demand mode, the electric heater will start without delay, which can help the user to heat water quickly in a short time.

	VACATION MODE	Enable Vacation mode		**SET TEMP REACHED**	Set temperature has been reached and the unit will shut off automatically
	FAN	Fan is on			
	HYDROBOOST	The Hydroboost setting is on	DOWN	**LOWER TANK TEMP**	Temperature of the lower tank
	DEFROST	The unit is defrosting	min	**MINUTE**	Minute value is being set
	LOCK	Keyboard is locked	S	**SECOND**	Second value is being set
SET	**PARAMETER SETTING**	Parameter is adjustable		**WI-FI**	State of Wi-Fi connection *Only available as an optional upgrade

6.2 Operating Functions

EvoHeat have developed a YouTube Channel with video walkthroughs of the different controller functions.

Scan the QR code or head to our channel to view the videos we have available
https://www.youtube.com/@evoheatpumps

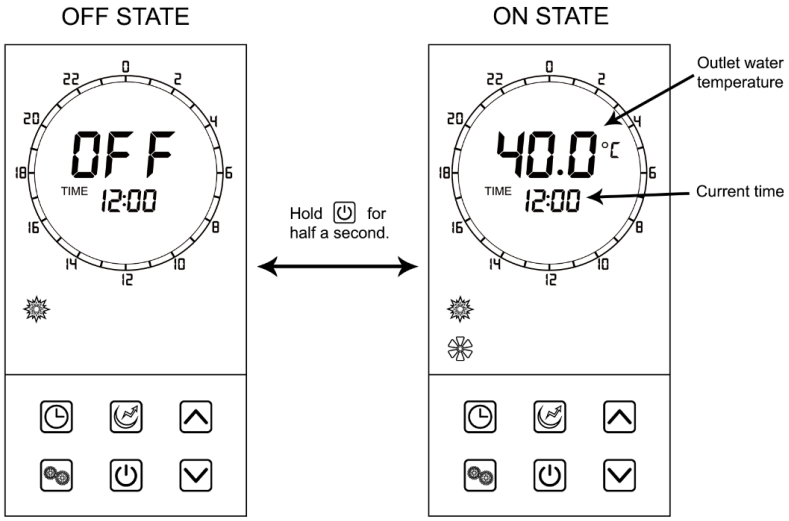
6.2.1 Startup & Shutdown

Press ⏻ and hold for 0.5 seconds in the standby screen of the controller to turn the unit on. The main display will now show the water outlet temperature.

Press ⏻ and hold for 0.5 seconds in the running screen of the controller to turn the unit off. The main display will now show "OFF".

The unit will dim the screen and display the standby screen when the controller has not been touched for a minute. Touch the power button to wake it.

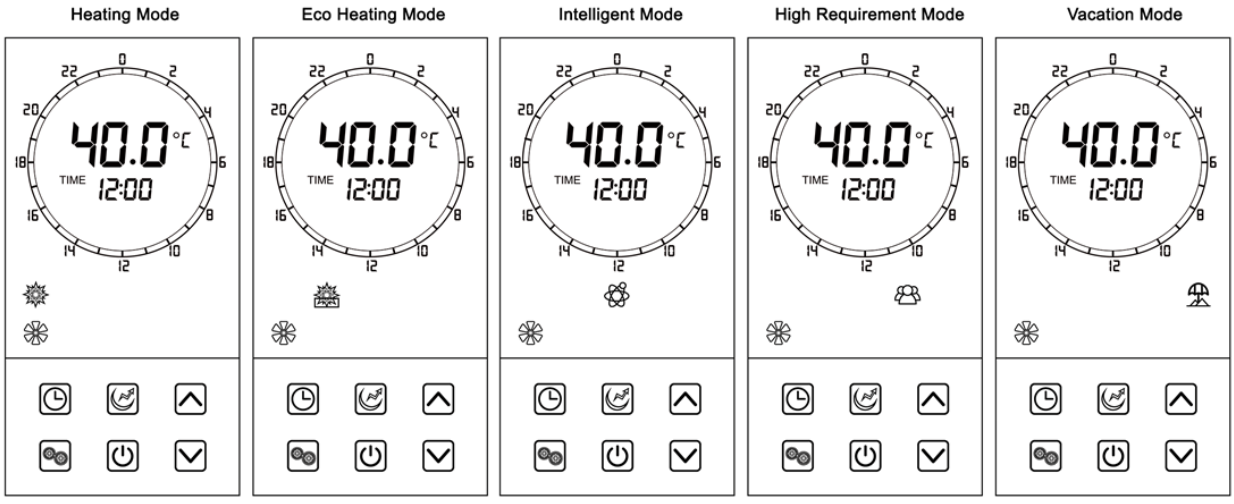
Note: The ON/OFF button can only be used to turn the unit on/off in standby or on the running screen of the controller.



6.2.2 Switching Modes

> We recommend running the unit in Eco Heating mode where possible for maximum energy efficiency.

From the running screen, press ⚙ to select one of the modes: Heating, Eco Heating, Intelligent, High requirement, Vacation.



Press ⚙ to alternate between different modes.

6.2.3 Locking the Controller

To both lock and unlock the controller, press and hold the ⏻ button for 5 seconds.

When the controller is locked, a lock symbol will appear on the bottom right.

6.2.4 Setting & Checking the Target Temperature

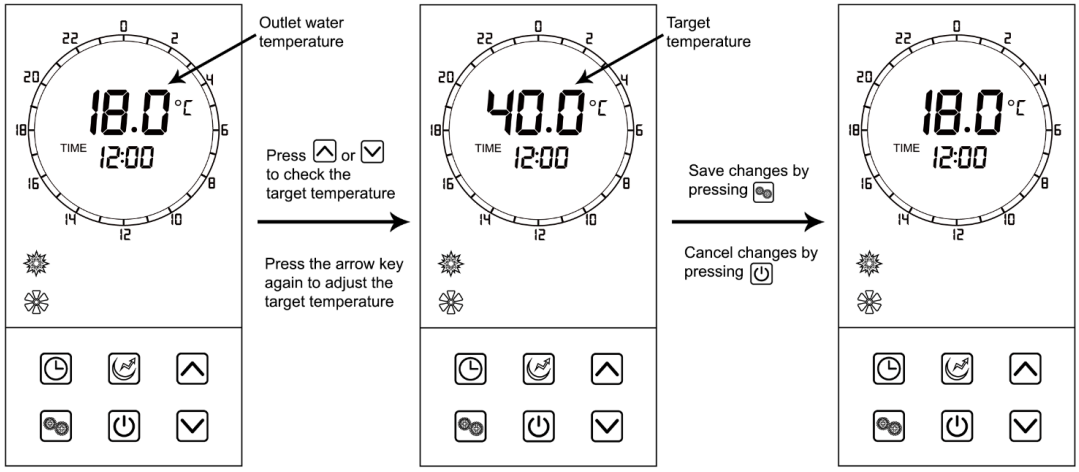
In the standby or running interface, press ^ or v once to check the target temperature of the outlet water.

Press ^ or v again to change the target temperature.

After making changes to the desired temperature, press ⚙ to confirm or ⏻ to cancel, then return to the previous screen.

If the keypad is left idle for 5 seconds, the controller will exit the menu automatically and apply any changes that were made.

Example: The target temperature is 40°C, the actual outlet water temperature is 18°C.



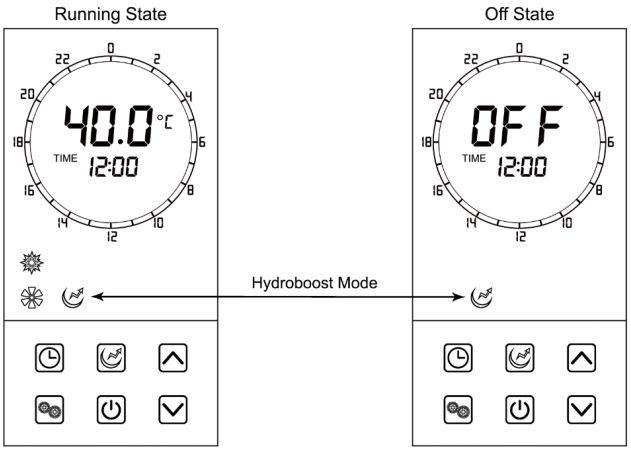
6.2.5 Hydroboost Setting

Also known as the Electric heater, the Hydroboost setting allows higher levels of hot water to be produced. When there are high hot water usage requirements (such as guests staying), this function may come in useful.

The Hydroboost setting can be turned on when the unit is in heating or in standby mode.

Press ♨ once to turn on Hydroboost on or off.

When activated, ♨ will light up on the main display.



6.2.6 Force Defrost

In the extremely unlikely circumstance of the unit icing up (for example, if the unit was installed inside with no ventilation), this function can be applied.

When the unit is off, press and hold ⏻ for 10 seconds to enable the forced defrosting function. The defrosting symbol will light up. Press ⏻ for 10 seconds again to exit the forced defrosting function.

6.2.7 Fan/Ventilation Function

This function may come in useful if the system is installed inside and the fan settings need to be adjusted to suit ducting or external ventilation.

The fan speed ***(High Speed, Low Speed or Off)*** can be controlled by the fan mode on the controller.

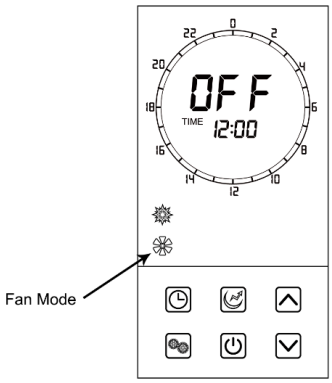
Fan mode symbols:

High Speed

Low speed

No Fan Icon: off

Note: When H02 is set to 0, there is no ventilation function.
Note: when the compressor is on, the fan will always run at high speed.



When the parameter HO2 is set to 1, press the for 2s.

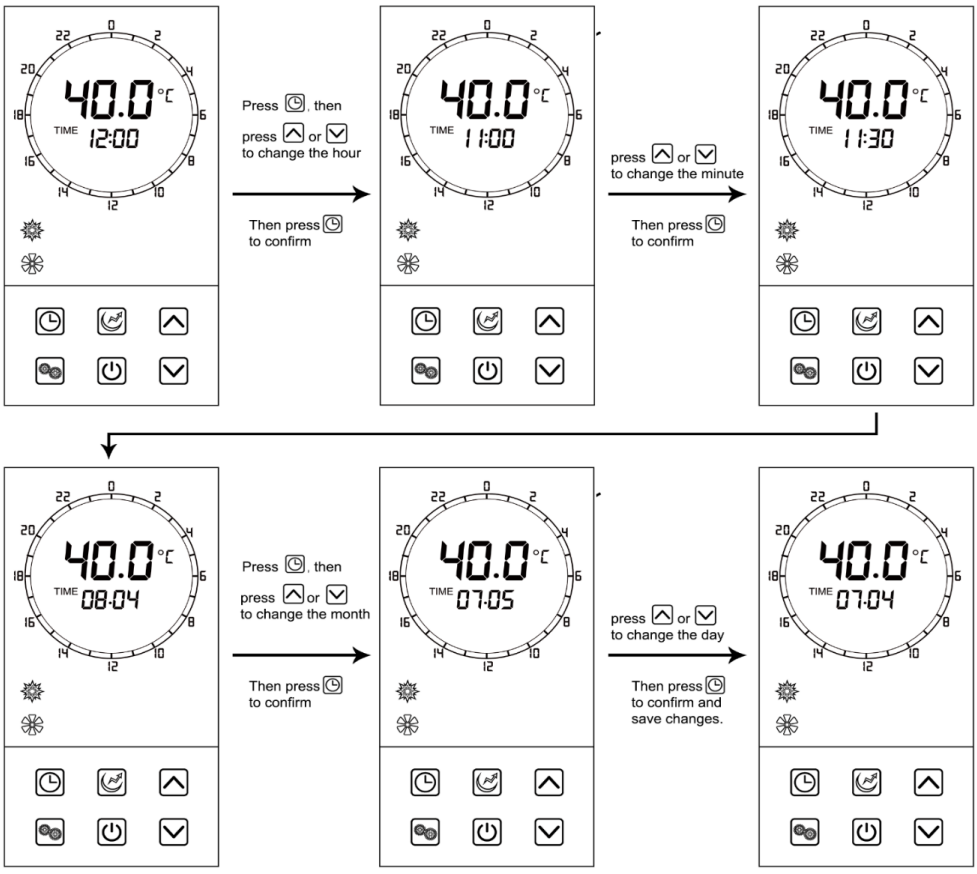
Once you hear a beep you can set the ventilation mode. Press for 2s, this will change the fan speed.

Continue to press for 2s until you reach your preferred speed.

6.2.8 System Date & Time

In the standby or running interface, press once, the hour digit will flash indicating it is being altered.

Press the or to change the hour setting, then press to confirm. Repeat this to change the minute value.

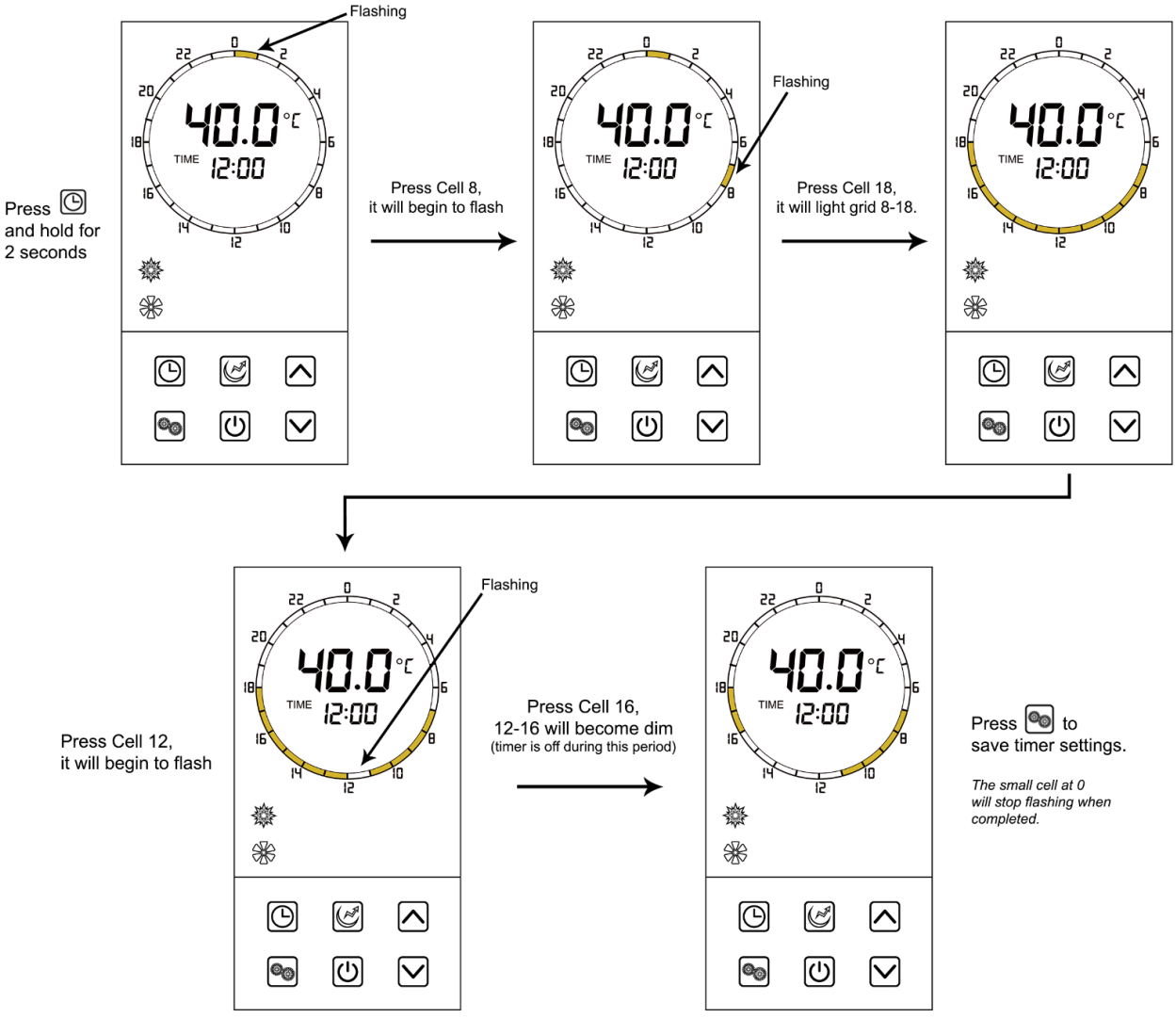


6.2.9 Setting & Cancelling Timers

Timers can be set in standard mode, economic mode, auto mode & fast heating mode. They can be set by using buttons or using the touch timing circle. The unit will run during the lit time periods and stop in the dim areas.

Touch Method	Button Method
• Press and hold for 2 seconds (the timer display will flash) • When the timer display flashes, choose your start-up time (A) and end time (B). • Press to save the setting and exit back to the main interface.	• Press and hold for 2 seconds (the timer display will flash) • When the timer display flashes, choose the start-up time (C) and end time (D) by pressing or and . • Press to save the setting and exit back to the main interface.

Example: Setting the unit to run from 7-11am & 4pm-6pm using Touch mode.



To **cancel** a timer once it has been set, hold down the CLOCK button for 2 seconds until the timer display begins flashing (as you would set the timer).

Press the POWER button while the timer is flashing to cancel it. The yellow timing periods will disappear when the timer has been cancelled.

6.2.10 Vacation Mode

Vacation Mode allows you to turn the unit off to conserve power for an extended period of time, and restart operation on a date you specify. This ensures you have hot water waiting for you upon your return.

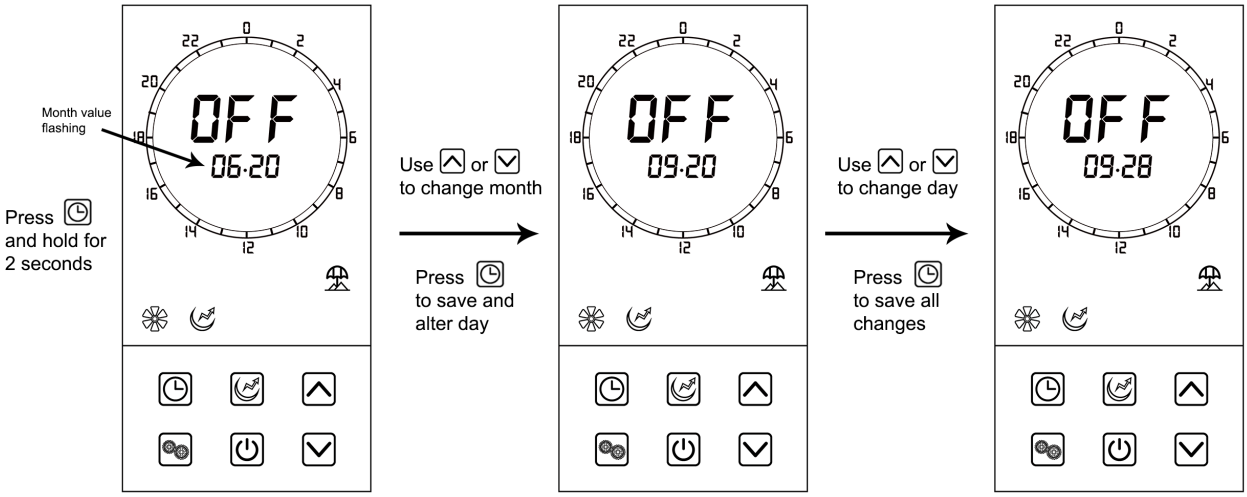
Ensure the unit is '**OFF**' before setting vacation mode. The date you set in this mode will determine what date the unit starts back up.

After selecting vacation mode, press and hold for 2 seconds, the 'month' value will begin to flash in the display area. Press the **UP** or **DOWN** arrows to display the desired month, then press to confirm and move to altering the 'day' value.

The 'day' value will flash when it is selected, use the arrow keys to select your desired start day, then press to save all changes and exit back to the main interface.

Note: Format is mm/dd

Example: The unit will start up on September the 28th.



6.2.11 Sanitech System

The Sanitech feature's purpose is to keep the water free of bacteria, such as Legionella, by heating at least 45% of the tank water to 60°C each day.

An instance when you may want to alter the Sanitech function is if you have solar and would prefer the Sanitech to run during the day, for example at 12pm, rather than midnight.

If you would like to change this function, contact EvoHeat's service department for guidance. Incorrectly attempting to adjust these settings yourself could significantly disrupt the unit's operation.

7. Troubleshooting

7.1 Parameters Explained

No.	Meaning	Range	Default value	Details
Hardware parameters				
/01	The usage of the O05 port	0/2	0	0-Low speed / 2-Solar water pump
/02	High temperature disinfection target temperature	0/2/3	0	0-No output / 2-Solar water pump / 3- Solar drain valve
Defrost parameters				
D01	Heating enter defrosting coil temp value	-30~0	-3	
D02	Heating exit defrosting coil temp value	0~30	13	
D03	Heating defrost cycle	30~90min	45min	
D04	Heating the maximum defrosting time	1~20min	8min	
D05	Heating the minimum defrosting time	0~D04	3min	
D06	Heating the minimum defrosting time	0~2	0	0-Standard / 1-Economic / 2-Intelligent
D07	Intelligent defrost temperature conversion point	-10~20	4	
High temperature disinfection parameters				
G01	High temperature disinfection target temp	30~60	60	
G02	High temperature disinfection running time	0~90min	30min	When G02= 0, no high temperature disinfection function
G03	High temperature disinfection startup time	0~23H	12h	
G04	High temperature disinfection cycle	1	1	
EEV parameters				
E01	EEV adjustment mode	0/1	1	0- Manual / 1- Auto
E02	EEV target overheat temp	- 20~20	5	
E03	EEV initial steps	0~500	240	
E04	EEV minimum steps	0~500	100	
E05	Defrosting EEV steps	0~500	480	
System parameters				
H01	Whether enable the power down memory function	0/1	1	0-No / 1-Yes
H03	Heat source mode	0	0	
H07	Fahrenheit / Celsius	0/1	0	0-Celsius / 1-Fahrenheit
H30	Unit address	4(1~255)	1	
H31	Remote control mode	0/1	1	0-Centralized control / 1-DTU&WIFI
H32	Status parameter feedback to cloud cycle	1~255min	5	
H98	Type of unit parameter	2/3	2	2-0*08 / 3-0*18
H99	Main display temp showing adjustment	0/1	1	0-No / 1-Yes
Solar water pump parameters				
N01	Which temp sensor used for controlling the solar water pump	0/1	0	0-Water tank bottom temp sensor 1-Water tank top temp sensor
N02	The maximum running time of the solar water pump	1~30min	15min	
N03	The solar water pump startup return difference	0~20	5	
N04	Whether enable the night cooling mode	0/1	0	0-No / 1-Yes
N05	Cooling function startup time	0~23h	0h	
N06	Cooling function shutdown time	0~23h	6h	
N07	Night cooling startup temp	40~90	70	
N08	Night cooling shutdown temp	1~40	10	
N09	Solar drain valve temp setting value	50~90	68	

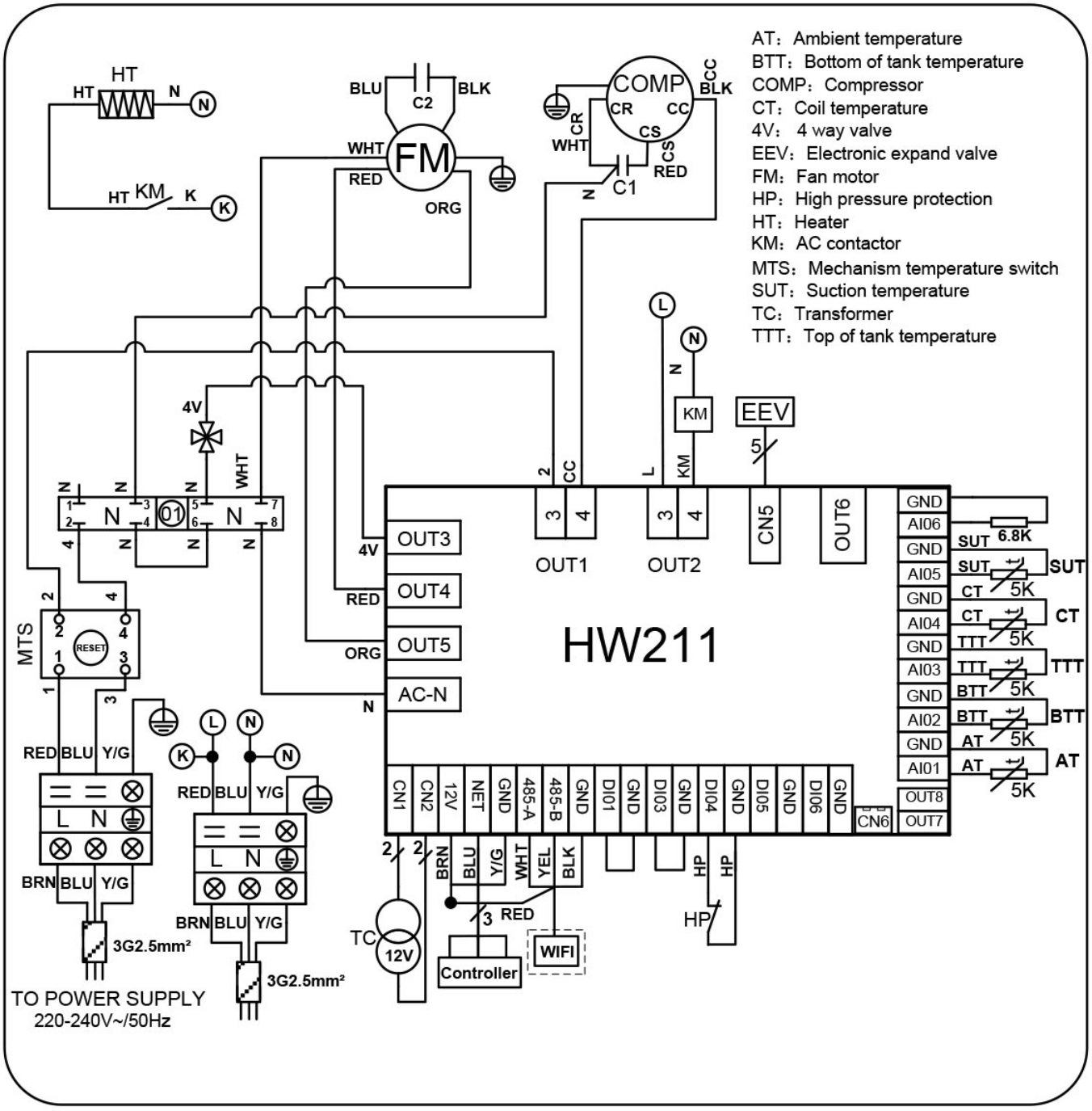
N10	Solar water pump shutdown temp setting value	50~90		
N11	Whether enable the independent solar control function	0 / 1	0	0-Disable / 1-Enable
Temperature parameters				
R01	Hot water target temp setting value	38~75	55	
R03	Heating, the lower temp return difference setting value	1~20	5	
R04	Whether enable the electric heater independent setting value	0 / 1	0	0-Disable / 1-Enable
R05	Electric heating temp setting value	30~90	55	
R06	Electric heat startup delay	0~450min	200min	
R07	Whether the electric heater replace the compressor	0 / 1	1	0-No / 1-Yes
R08	Electric heater replace the compressor ambient temp	-20~10	-5	
R09	Electric heater zero delay startup ambient temp	0~30	5	
R10	Electric heater delay startup ambient temp	10~40	25	
R12	The compressor force to shutdown temp	-30~-5	-15	
R14	Replacement value of external heat source target temperature	10~60	45	
R15	The compressor limit temp under high ambient temp	55~80	78	
R17	Whether enable the top temp sensor for controlling the compressor startup	0 / 1	0	0-Disable / 1-Enable
R18	Heating, the top temp return difference setting value	1~20	1	
R19	The compressor shutdown ambient temp 1	30~90	65	
R20	The compressor shutdown ambient temp 2	30~90	60	
Timing parameters				
L01	Whether enable the vacation mode	0 / 1	0	0-Disable / 1-Enable
L02	The vacation mode: Year	0~99Y	0	
L03	The vacation mode: Month	0~12M	0	
L04	The vacation mode: Day	0~31D	0	
L05	Whether enable the timing on/off function	0 / 1	0	0-Disable / 1-Enable
L06	Timing on period 1: Hour	0~23h	0	
L07	Timing on period 1: Minute	0~59min	0	
L08	Timing off period 1: Hour	0~23h	0	
L09	Timing off period 1: Minute	0~59min	0	
L10	Timing on period 2: Hour	0~23h	0	
L11	Timing on period 2: Minute	0~59min	0	
L12	Timing off period 2: Hour	0~23h	0	
L13	Timing off period 2: Minute	0~59min	0	
Switch status parameters				
S01	Remote on/off switch	CL / OP	Close	
S03	Low pressure protection switch	CL / OP	Close	
S04	High pressure protection switch	CL / OP	Close	
S05	Time-lapse signal switch	CL / OP	Open	
S06	External setting switch	CL / OP	Open	
Temperature status parameters				
T01	Ambient temp	-30~93	/	
T02	Water tank bottom temp	-30~93	/	
T03	Water tank top temp	-30~93	/	
T04	Coil temp	-30~93	/	
T05	Suction temp	-30~93	/	
T06	Solar control temp	-30~93	/	
T10	App/wire controller display temp	-30~93	/	
T20	Enter parameter over-range protection times	0~65535	/	
T21	Memory chip EEPROM storage times	0~30000	/	

7.2 Error Codes

Malfunction	Display	Cause	Solution
Bottom water temp. sensor failure	P01	1. Check connection between the sensor to the PC board. 2. Check the resistance of the sensor, if the resistance is greater than 500k or less than 100 this means the sensor is broken and will need to be replaced.	
Top tank water temp. sensor failure	P02		
Ambient temp. sensor failure	P04		
Coil temp. sensor failure	P05		
Suction temp. sensor failure	P07		
Solar control temp. sensor failure	P034		
High pressure protection	E01	1. Check if the inlet/outlet water temp. difference is too high 2. Check the water flow 3. The target temp. setting needs to be reduced if it is too high 4. Check the high-pressure switch. If the switch is open when the connection is closed, replace it.	
Low pressure protection	E02	1. Check if the system is leaking 2. Check the low pressure switch 3. Ensure the installation location allows for heat dissipation 4. Check the fan motor 5. Ensure the throttling device is not stuck 6. If all above are as normal, replace the PC board	
Communication failure	E08	1. Check the connection between the wired controller and PC board 2. Replace the wire controller 3. Replace the PC board	
Anti-freeze protection in winter	E09	1. Check that the high and low pressure switches are working normally 2. Check both the water tank lower temp. sensor & ambient temp. sensor to see if they are working normally 3. See if the lower temperature of the tank is lower than 10, and the ambient temp is lower than 0 degrees.	

8. Appendix

8.1 Wiring Diagram



8.2 Wi-Fi Module Connection (Optional)

Note: If you do not have a Wi-Fi module to install, simply push the cord entirely behind the front panel.

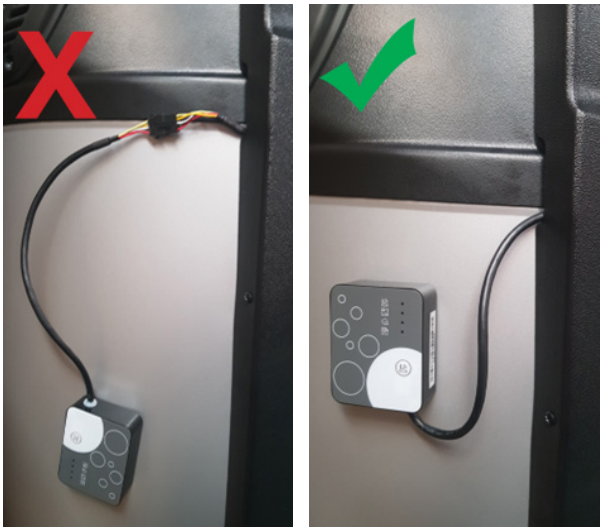
The optional Wi-fi Control upgrade can be purchased to allow you to remotely control your EvoHeat hot water heat pump from your phone.

Newly installed units will have a small cable that protruding out from behind the front panel with a small waterproof cover.

If you are installing the Wi-Fi module, simply connect the cable of the Wi-Fi module to the one that protrudes.

Once the Wi-Fi module has been connected, ensure that the connection part of the cable is placed behind the front cover.

The module must be placed with the cord coming downwards to protect it from water.



8.3 Use of the P&T Valve

The P&T valve is used to prevent the temperature or pressure becoming too high inside the tank. When the temperature or pressure reaches the set value, the valve will open automatically to force the pressure or temperature to decrease

The handle of the safety valve should be tested once every six months to remove the calcium carbonate deposits and guarantee there is no blockage in the device. Take care to avoid burns as the temperature of the discharging water is very high.

Vent pipes should be thermally insulated to prevent safety risks caused by freezing pipes in winter.

P&T valve: Model: PTR-20, action temperature: 99˚C, action pressure:0.85MPa

WARNING: Failing to operate the relief valve easing gear at least once every six months may result in the water heater exploding. Continuous leakage of water from the valve may indicate a problem with the water heater.

8.4 Using the Overheating Protector

The overheating protector is used to turn the power off in an emergency or with power supply issues, preventing the water from being heated too high.

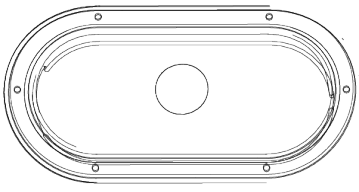
A thermal cut-out could indicate a possibly dangerous situation. Do not reset the thermal cutout until the unit has been serviced by a qualified technician. Contact EvoHeat for a service if this occurs before attempting to reset.

To return the unit to its normal operation status by resetting manually:

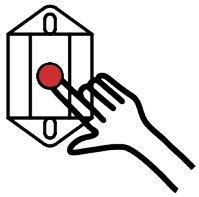
a) To access the overheat protector, remove the front dark grey controller panel.

b) Remove the 3 screws on the front panel and push the front cover upwards.

c) Remove the remaining screws which cover the overheat protector panel.



Remove the screws and open the cover



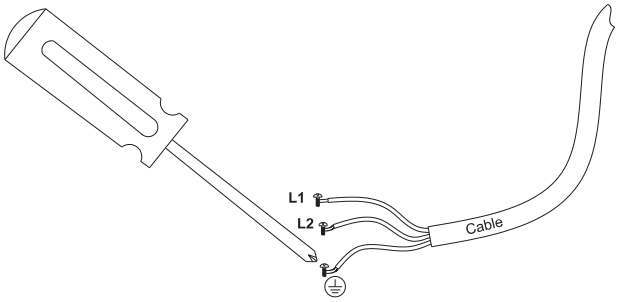
Press the red button to reset

8.5 Draining the Water Tank

1. Close the cold-water inlet valve into the Evo315-C.
2. Open a hot water tap inside the premises.
3. Undo the drain plug on the base of the unit to drain the water from the system.

The water from the hot water tap and the drain plug will be hot. Be careful of burns and scalds. Wear protective clothing.

8.6 Earthing Methodology



9. Maintenance

9.1 Maintenance Periods

Your EVO315-C will operate most efficiently if regularly inspected as part of your home maintenance schedule.

ANNUAL MAINTENANCE

It is recommended that the minor maintenance be performed every 12 months by the dwelling occupant.

The minor maintenance includes:

- Operate the easing lever on the temperature pressure relief valve. It is very important you raise and lower the lever gently. Exercise care to avoid any splashing of water, as water discharged from the drain line will be hot. Stand clear of the drain lines point of discharge when operating the valve's lever.
- Operate the easing level on the expansion control valve (if fitted). It is very important you raise and lower the lever gently.
- Conduct a visual inspection of all plumbing and electrical connections.
- Check the condensate drain line to ensure it is not blocked.
- Check that air vents and evaporator is not blocked or obstructed, and if necessary, isolate the power to the system and clear with a brush.
- Conduct a general external clean of the unit with a damp cloth.

THREE-YEAR SERVICE

It is highly recommended that a three (3) year service is conducted on the EVO270-E. Just as a car needs regular servicing, your heat pump also requires a three-year service to maintain efficiency and ensure long-term performance.

Warning: Servicing of a water heater must only be carried out by qualified EvoHeat Service Technician Phone EvoHeat Service on 1300 859 933 for our closest Accredited Service Agent.

Note: The three-year service and routine replacement of any components such as the anode and relief valve(s) are not included in the EvoHeat warranty. Only genuine replacement parts should be used on this water heater.

The service includes the following actions:

- Replace the temperature limiting valve.
- Replace the temperature pressure relief valve.
- Inspect the anode and if required, replace the anode. If the anode is not replaced, it should be replaced within three years of this service.
- Check the heating cycle of the unit.
- Visually check the unit for any potential problems.
- Inspect the plumbing and electrical all connections.
- Check the condensate on drain line to ensure it is not blocked.

Note: The water heater may need to be drained during this service. After the completion of the service, the water heater will take some time to reheat the water. Depending upon the power supply connect on, hot water may not be available until the next day.

10. Warranty

Refer to the EvoHeat website for warranty details

https://evoheat.com.au/warranty-terms/

REGISTER YOUR WARRANTY

EvoHeat highly recommend customers complete their warranty details online to ensure efficient warranty claim processing.

To register your warranty, scan our QR Code or head to our website and fill in the Warranty Registration Form: https://evoheat.com.au/warranty-registration/

1. Warranty terms are from date of installation.
2. This warranty excludes any defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, vermin infestation, incompetent installation, any fault not attributable to faulty manufacture or parts, any modifications which affect the reliability or performance of the unit.
3. This warranty is conditional upon the correct operation and regular maintenance of the EvoHeat heat pump by the Owner. It does not cover the correction of non-product-related faults or issues. The Owner is responsible for:
   a) Operating and maintaining the heat pump in accordance with the product's operating instructions.
   b) Performing regular cleaning, including an annual maintenance check (please refer to the Maintenance section of the product manual).
   c) Keeping the air inlet and outlet of the heat pump free from obstructions such as dirt, leaves, or plants.
   d) Ensuring the condensate drain remains clean and unobstructed.
   e) Ensuring all plumbing and electrical connections are secure and in good working order.
   f) Applying additional corrosion protection if the unit is installed in a corrosive environment (e.g. coastal areas or industrial zones).
4. This warranty does not cover the following:
   a) Natural Disasters (hail, lightening, flood, fire etc.)
   b) Damage resulting from any animal or creature (including vermin, reptiles and insects)
   c) Rust or damage to exterior coatings, materials, and cabinet caused by corrosive atmosphere or weather/environmental conditions.
   d) When serviced by an unauthorised person without the permission of Evo Industries.
   e) When a unit is installed by an unqualified person.
   f) When failure occurs due to improper or incorrect installation.
   g) Where failure occurs due to failure of any other equipment connected in relation with the EvoHeat unit (e.g. power supply, water pump etc.).
   h) Where failure occurs due to improper maintenance or misuse (refer Operating Instructions).
   i) 'No Fault Found' service calls where the perceived problem is explained within the operation instructions.
   j) Costs associated with delivery, handling, freighting, or damage to the product in transit.
   k) Where the unit has been relocated from its originally installed location.
5. If warranty service is required, you should:
   a) Contact Evo Industries Australia on 1300 859 933 or via our Contact page on our website.
   b) Provide a copy of your receipt as proof of purchase.
   c) Have completed the online Service Request Form via the website www.evoheat.com.au/service-request/
6. Onsite technical service is available within the normal operating area of your Evo Authorised Service Agents. Service outside this area will incur a traveling fee.
7. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.