

CENTRALIZED MANAGEMENT RS485 PROTOCOL



ECO POWER has a separate centralized control system through the RS485 port, the port is designed to control each individual device.

ELECTRONIC EXPANSION VALVE



Thanks to EEV, the system can instantly adjust the refrigerant flow to ensure stability.

ERGONOMIC DESIGN WITH HIDDEN FASTENING

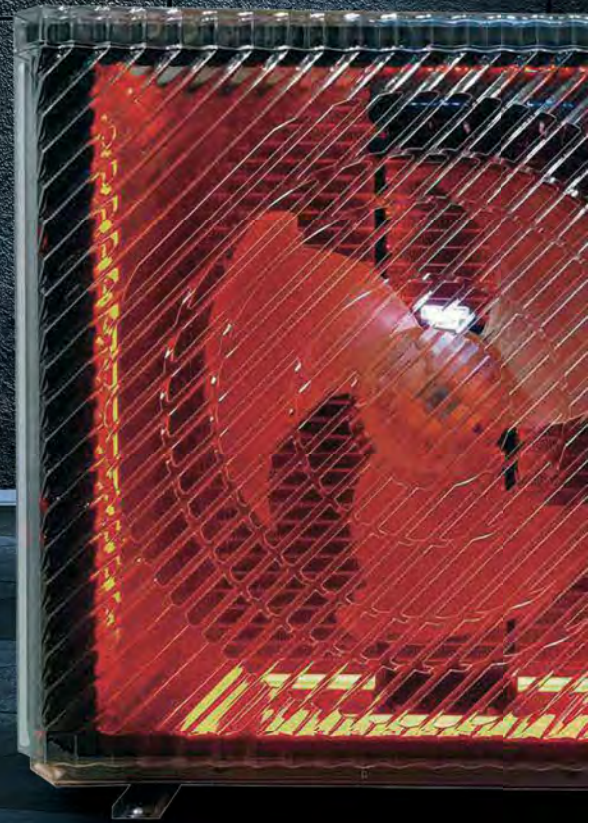


The ECOPOWER series features a stylish and innovative casing design with no visible screws on the surface.

CIRCULATION WATER PUMP



The built-in circulation pump simplifies maintenance and service of the heat pump.



SWEP PLATE HEAT EXCHANGER

Thin air channels are formed between adjacent plates, through which heat exchange is carried out, which is more efficient than in traditional heat exchangers.



PRESSURE SENSOR

The pressure sensor can monitor the system pressure and send a signal to the main board to protect the device.



ASA MATERIAL

The body is made of ASA plastic, which provides high resistance to corrosion and atmospheric influences and ensures a long service life.



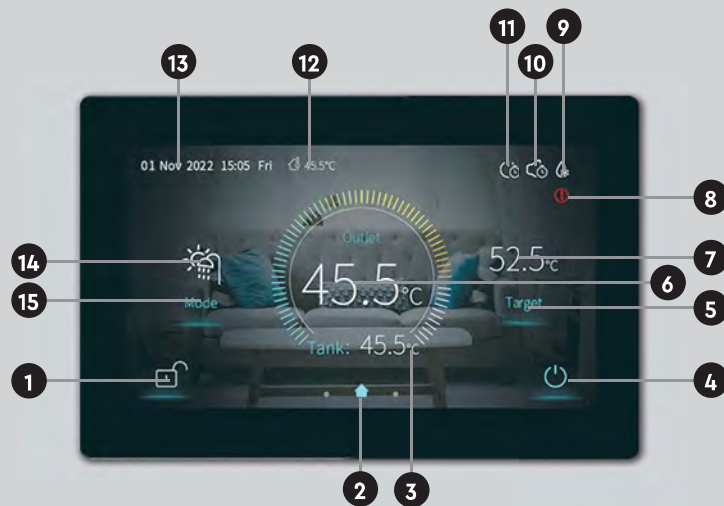
OPERATION AND FUNCTIONS OF THE TOUCH SCREEN

(STANDARD FOR ECOPOWER SERIES)

Universal multifunctional control touch screen with many intelligent functions, such as weekly timer, building management system, 4G control and monitoring network, operation modes (cooling/heating/DHW), screen lock/unlock, temperature curve indication, fault log, calibration display, etc. Display of the desired/current temperature up to 0.5 °C allows you to control the water temperature with high accuracy.

The possibility of combining different types of work modes:

1. Hot water (DHW)
2. Heating
3. Cooling
4. DHW + Heating
5. DHW + Cooling




	Name	Function
1	Lock screen	Press this key to lock the screen. White means that the mode is not activated, blue means that the mode is activated.
2	HOME	Main menu page.
3	Water tank temperature	Indication of water tank temperature. The device is in DHW mode when this icon is displayed; Otherwise, this icon will not be displayed.
4	ON/OFF	Press this key to turn the device on or off. Blue means that the device is on, and white means that it is off.
5	Temperature setting	Press this key to set the desired temperature.
6	Outlet water/Room temperature	he leaving water temperature or room temperature is displayed. If H25=0 appears, the leaving water temperature will be displayed. If H25=1, room temperature will be displayed.
7	Target temperature	Setting the target (set) temperature of the device.
8	Fault	Malfunction (error). Fault indication. This icon blinks when an error occurs and a list of errors will appear on the display when this icon is pressed.
9	Defrosting icon	Will be displayed when the device is defrosting.
10	Silent timer	Quiet mode timer function. The indicator turns on only after the function is activated.
11	Timer	Enable/disable timer of the device. Displayed only after the function is activated.
12	Outdoor temperature	Indication of external temperature (ambient temperature).
13	Time setting	Setting of the time. System time display.
14	Current mode	Indication of the current mode.
15	Mode	Mode selection. Five modes can be selected by pressing the Mode button: DHW, heating, cooling, DHW + cooling, DHW + heating.

CONTROL: SMART CONTROL FAMILY



Intelligent and remote control of the device gives users many conveniences. Adjusting the temperature, switching modes and setting the timer can be done on your smartphone via 4G mobile internet.


In addition, you can check your electricity consumption and fault records anytime, anywhere, again with the help of 4G mobile internet.






Adjustable Temperature








Heating & Hot Water




Hot Water




Heating




Cooling




Cooling & Hot Water




Silent



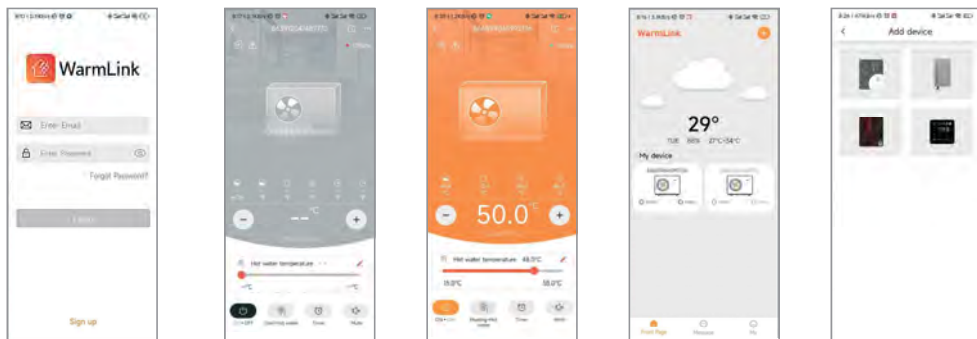
Timers



Unit Status



History Data Display



WEB PLATFORM

Central remote control can be realized by DTU or Wi-Fi, effectively saving maintenance/system status notification costs.

An error message is displayed on the responsible personnel's computer. When an error is detected on the screen, the service department/representative of C&H must be notified.



ECOPOWER SERIES

FOR HEATING OR
COOLING AND DHW

R290
FREON  70°C


 +15°C ... +43°C

 -25°C ... +43°C

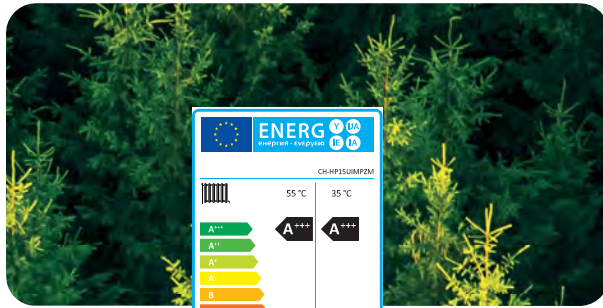


This series operates on R290 F-Gas. It minimizes the negative effect of CO₂ emission and makes possible heating of outlet water to the maximum possible temperature.



- ▶ The maximum water heating temperature is up to 70°C.
- ▶ DC-inverter technology.
- ▶ The minimum sound pressure level is 42 dB.
- ▶ LCD SMART Display with a new generation 5-inch touch screen.
- ▶ 4G MMN (Management and Monitoring Network).
- ▶ Weather-dependent mode.
- ▶ IoT cloud platform.
- ▶ Wi-Fi (optional).
- ▶ Smart Pro 360 option: cascade control of up to 4 heat pumps, control of heat circuits, monitoring of energy efficiency.

SUPER HIGH LEVEL OF ENERGY EFFICIENCY A+++



The ECOPOWER series of air-to-water heat pumps is designed to meet the strict requirements of efficient, stable operation with low noise.

The combination of ecological freon R290 with inverter technologies makes ECOPOWER a unique heat pump with energy efficiency class A+++ at a heat carrier temperature of 55 oC. Using this level of technology significantly reduces energy bills for users.

ECO REFRIGERANT R290



To reduce CO₂ emissions into the environment and curb global warming, Cooper&Hunter uses R290 freon. Refrigerant R290 is recognized as the refrigerant with the greatest development potential in the industry and contributes to the reduction of CO₂ emissions into the Earth's atmosphere.

QUIET OPERATION



Cooper&Hunter is dedicated to creating an ultra-quiet, efficient and environmentally friendly heat pump. The ECOPOWER series introduces significant noise reduction technologies, each product is repeatedly tested and optimized.



TECHNICAL PARAMETERS

		CH-HP09UIIMPZK	CH-HP15UIIMPZK	CH-HP15UIIMPZM	CH-HP22UIIMPZM
Heating capacity	kW	1,20-5,72	3,60-10,50		4,20-15,00
Cooling capacity	kW	3,10-8,90	5,40-14,95		8,00-22,00
Power input for cooling	kW	0,65-2,40	1,12-4,47		1,80-7,30
Power input for heating	kW	0,65-2,10	1,05-3,85		1,60-6,90
Max. power input	kW	3	5,3		9
Max. current input	A	13,5	24,5	10,5	15,8
Power supply		~220-240V/50 Hz/1 Ph		~380-415V/50 Hz/3 Ph	
Compressor type		Rotary			
Circulation pump		DC			
Number of fans			1		2
Sound pressure level (1m)	dB(A)	42	43	44	47
Piping inlet/outlet	inch	1" Female			
Water flow	m ³ /h	1	1,7		2,9
Heat exchanger resistance	kPa	40	45	20	65
Circulation pump pressure	m	7,5	5,5	7,5	12,5
Refrigerant charge volume	kg	0,5	0,85		1,3
Dimensions (W×D×H)	mm	1167×407×795	1287×458×928		1250×540×1330
Net weight	kg	80	160		202

Cooling: external temperature DB / WB 35 °C / 24 °C outlet water temperature 7 °C, inlet water temperature 12 °C.
 * Heating: external temperature DB / WB 7 °C / 6 °C outlet water temperature 35 °C, inlet water temperature 30 °C.

OVERALL DIMENSIONS

