4G + WI-FI Module (New)

NEW DTU module (4G+WiFi) *for Hyperpower, Evipower, Ecopower and Ecopower Pro series.

The new DTU module allows you to choose one of two remote control methods: via a 4G cellular network or via WiFi. The module comes with an antenna that can be placed outside the unit to improve signal quality.







Integrated AI performs the following functions:

Device Analysis:

Quickly summarizes your devices status — online rate, alarms, trends, and health insights

Fault Analysis:

Analyzes faults from the past 7/30 days — types, frequency, and smart diagnostics.



EcoPower Pro Series Specification

System Features

Cooling Mode · Heating Mode · Water Heating Mode · Cooling&Water Heating Mode · Heating&Water Heating Mode · R290 Refrigerant · CH-AI technology · Wi-Fi · Timer · Connection to wired controller · Connection to BMS · Inverter · EVI Technology · Energy efficient copper tubes

Efficiency · Anti-freezing Protection · Exhaust Protection · Over Current Protection · Low Pressure Protection · Over Pressure Protection · Low Voltage Protection · Over Voltage Protection · High Water Temperature Protection · Low Water Flow Protection · Low Ambient Temperature Protection · Low-Noise Design · Self monitoring · Auto Restart







			CH-HP06UIMPZK-P	CH-HP12UIMPZK-P	CH-HP12UIMPZM-P	CH-HP17UIMPZK-P	CH-HP17UIMPZM-P
Nominal Heating Capacity		kW	6	12	12	17	17
Heating Capacity Range	A	kW	1.90-6.38	4.29-12.80	4.29-12.80	6.00-18.50	6.00-18.50
Heating Power Input Range		kW	0.44-1.27	0.70-2.74	0.70-2.74	1.30-5.58	1.30-5.58
Nominal Capacity		kW	6	12	12	17	17
Heating Capacity Range	B	kW	1.06-6.72	4.35-12.16	4.35-12.16	6.00-18.00	6.00-18.00
Heating Power Input Range		kW	0.65-2.12	0.94-3.80	0.94-3.80	1.80-5.45	1.80-5.45
Nominal Cooling Capacity		kW	6	12	12	17	17
Cooling Capacity Range	C	kW	2.05-10.05	4.63-17.99	4.63-17.99	6.00-23.00	6.00-23.00
Cooling Power Input Range		kW	0.53-2.62	0.91-5.38	0.91-5.38	1.30-7.30	1.30-7.30
Nominal Cooling Capacity		kW	6	12	12	17	17
Cooling Capacity Range	D	kW	1.12-6.82	3.44-14.14	3.44-14.14	4-17.0	4-17.0
Cooling Power Input Range		kW	0.57-2.54	1.01-5.14	1.01-5.14	1.7-7.2	1.7-7.2
Max. Power Input		kW	3.5	6.09	6.09	8.74	10.4
Max. Current Input		A	15.5	26.68	8.91	38	15
Power Supply		V/ph/Hz	~220-240V/1/50	~220-240V/1/50	~220-240V/1/50	~380-415/3/50	~380-415/3/50
Refrigerant Type			R290				
Refrigerant Volume		kg	0.7	1.0	1.0	1.3	1.3
Compressor type			Rotary				
Compressor Quantity			1				
Fan Motor Type			DC motor				
Fan Quantity			1	1	1	2	2
Sound Pressure (1m)		dB	39	41	42	44	44
Sound Power Level (EN12102)		dB	48	51	51	53	51
Water Connection		inch	1	1	1	1	1
Rated Water Flow		m³/h	1.03	2.06	2.06	2.92	2.92
Water Pressure Drop		kPa	12	23	23	40	40
Circulation Pump Head		m	7.0	7.8	7.8	10.4	10.4
Operating Ambient Temperature		°C	-30~45	-30~45	-30~45	-30~45	-30~45
Dimensions (W*D*H)		mm	1370x590x915	1370x590x915	1370x590x915	1370x590x1335	1370x590x1335
Net weight		kg	133	145	148	191	200

Heating working condition (A): (DB/WB)7°C/6°C. Outlet water temp.35°C.
Heating working condition (B): (DB/WB)7°C/6°C. Outlet water temp.55°C.
Cooling working condition (C): (DB/WB)35°C/24°C, Outlet water temp. 18°C.
Cooling working condition (D): (DB/WB)35°C/24°C, Outlet water temp. 7°C.
EE EN14511-1:2013 Air conditioner, whole liquid cooling machine, electric compressor.

Cooper&Hunter



EcoPower Pro SERIES

A+++ · R290 · -30°C +45°C · +80°C · 4G · Wi-Fi · AI · EVI

EVI & Inverter technology
A+++ at both 35°C & 55°C.
Max water outlet temperature 80°C
Sound pressure(1m): 39 dB(A)~42 dB(A)
Built-in electricity meter, water flow meter, gas separator & safety valve.
Self-developed AI technology



Ecopower Series

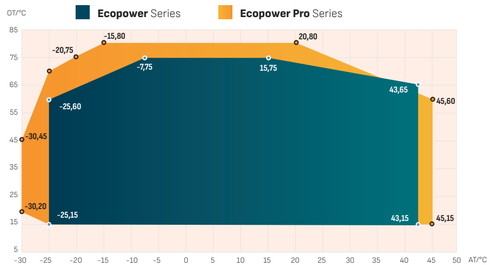
- A+++ at 35°C, A++ at 55°C
- Max water outlet temperature 75°C
- Sound pressure(1m): 42 dB(A)~47 dB(A)
- Plastic casing design
- Plug-in main-board



Ecopower Pro Series

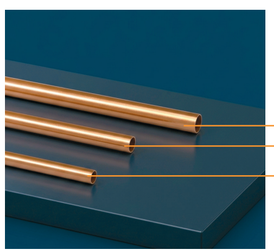
- EVI & Inverter technology
- A+++ at both 35°C & 55°C Max water outlet temperature 80°C
- Sound pressure(1m): 39 dB(A)~42 dB(A)
- Aluminium-alloy casing design
- Better cooling capacity
- Plug-in main-board
- Integrated component design
- Built-in electricity meter, water flowmeter, gas separator & safety valve.
- Self-developed AI technology & User APP & Service APP

1. Wider Operation, Higher Efficiency



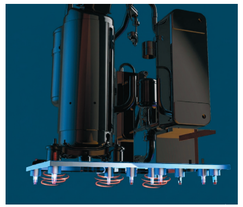
- New back-electromotive-force(EMF) fan motor to meet performance requirements.
- Deliver up to 30% higher COP than standard heat pumps at ambient temperature -15°C.

2. 20% Higher Heat Exchange Efficiency



- Faster refrigerant flow
- Higher heat transfer coefficiency
- Better energy efficiency

3. Low-Noise Design: Suspended Chassis



The suspended chassis places the refrigeration cycle system on elastic supports, effectively reducing noise and vibration for Cooper&Hunter EcoPower Pro series, while the 1st generation only the compressor on the suspended chassis.

4. Low-Noise Design: One Key Silent Mode

The minimum noise level of 6kW can reach as low as 31.3dB(A) @Night mode, meeting the requirements of German TALarm standard, one key Silent Mode and Night Mode.





20dB(A)
Rustle of Leaves

30dB(A)
Soft Whisper

31.3dB(A)
Ecopower Pro

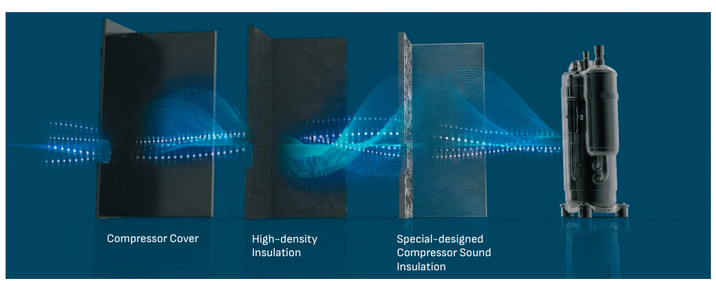
40dB(A)
Refrigerator

70dB(A)
Car

5. Low-Noise Design: Composite Noise Reduction

Three-Layer Noise Reduction of Compressor:

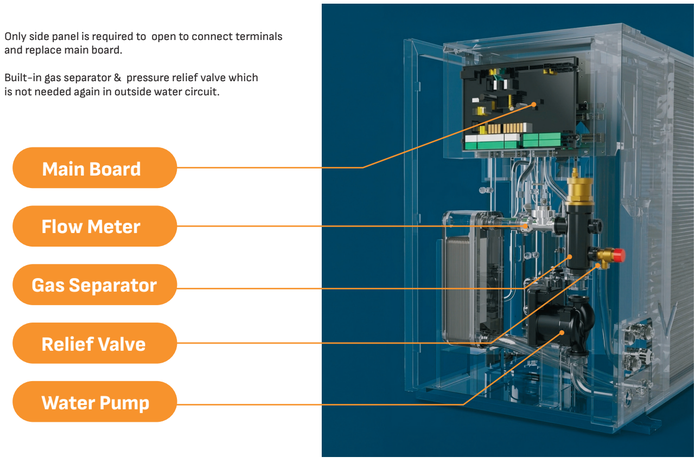
- Sound insulation cover (outer) + high-density sound-absorbing insulation(middle) + special sound insulation (inner).
- The design not only reduces the compressor whistle noises when it's at high frequency, but also controlled down the vibrations, overall to achieve a more gentle & soft sound.



6. Easy Maintenance

Only side panel is required to open to connect terminals and replace main board.

Built-in gas separator & pressure relief valve which is not needed again in outside water circuit.



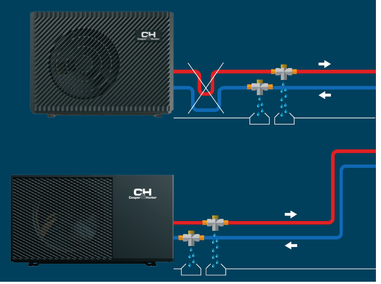
7. Full Drainage Design

- Water System Drainage

Compared to 1st generation, the new generation can do full drainage design & avoid system damaged.

- Condensate Drainage Methods

Both direct drainage & centralized drainage are available.



8. Anti-freezing Protections

- Level-1 anti-freezing
- Level-2 anti-freezing
- Low water outlet temp. protection
- Excessive temp. difference protection

