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VETERO



End-to-End Smart Ecosystem



AI Core Tech

Real-Time Optimization

Dynamic Grid Adaptation

User-Centric Automation

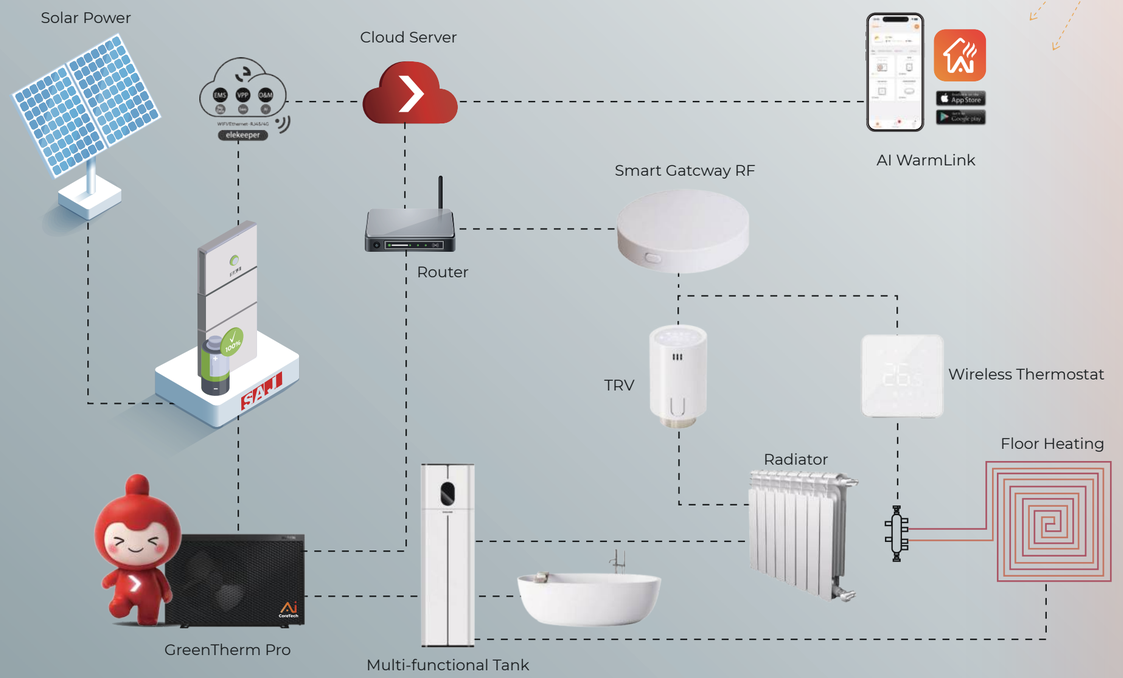
Data Asset Analysis

Fault Auto Intervention



Comprehensive Smart Home Energy Solution

AI-driven Heat Pump + PV + Energy Storage



AI Energy Management

- **Big Data Intelligence:** Refined by real-time data from 25,000+ heat pumps, our AI model delivers a field-proven algorithm that maximizes COP in all climates.
- **Dynamic Grid Adaptation:** Seamlessly integrating European dynamic electricity tariffs, the system automatically adjusts compressor frequency to maximize COP and drastically reduce running costs.
- **User-Centric Automation:** Intelligent scheduling based on user's habit to reduce unnecessary cycling, extending the lifespan of the unit. Intelligent scheduling based on habit recognition reduces unnecessary cycling, enhancing comfort while extending the unit's lifespan.



Industry First AI Smart Assistant

PHNIX NIKIGPT Interaction

- Operate and adjust the heat pump via the NIKI voice assistant
- Conduct simple troubleshooting and provide straightforward solutions



Device Control.

I'm getting an E03 error.

Hi~ I am NIKI. What can I do for you?

I'll have a friend coming over later—please set it to a comfortable temperature.

Please set the heat pump in energy saving mode.

Device Control
About Device Control

Product Q&A
User manual, malfunction

AI WarmLink

Available on the App Store

Get it on Google play

AI-driven Service Ecosystem

PHNIX IOT Platform

- **Predictive Maintenance:** AI-powered fault forecasting (1 hour in advance) with automated intervention to minimize downtime and onsite visits.
- **Operational Analytics:** Comprehensive data asset analysis, fault trends, and inventory statistics for smarter business decision-making.
- **Technical Support Hub:** Instant spare parts inquiry and step-by-step troubleshooting guidance at your fingertips.



Go Heating Pro

Available on the App Store

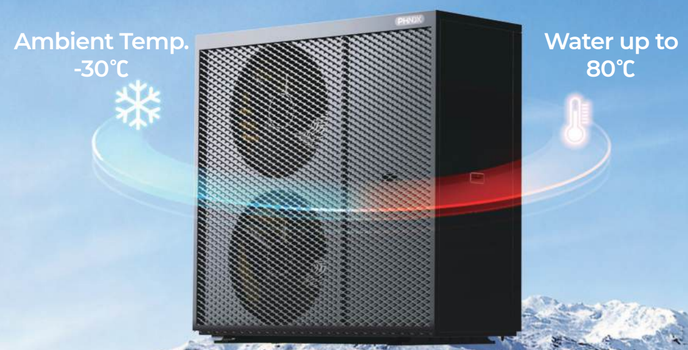
Get it on Google play

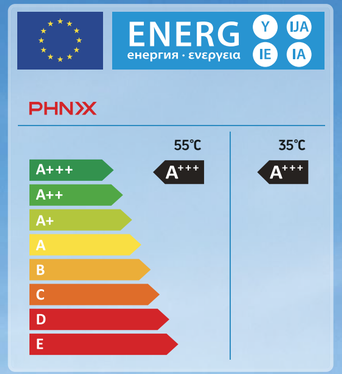
EVI Technology

30% Increase in COP

Equipped with the latest EVI compressor, GreenTherm Pro delivers high energy efficiency and stable performance even under extreme cold conditions.

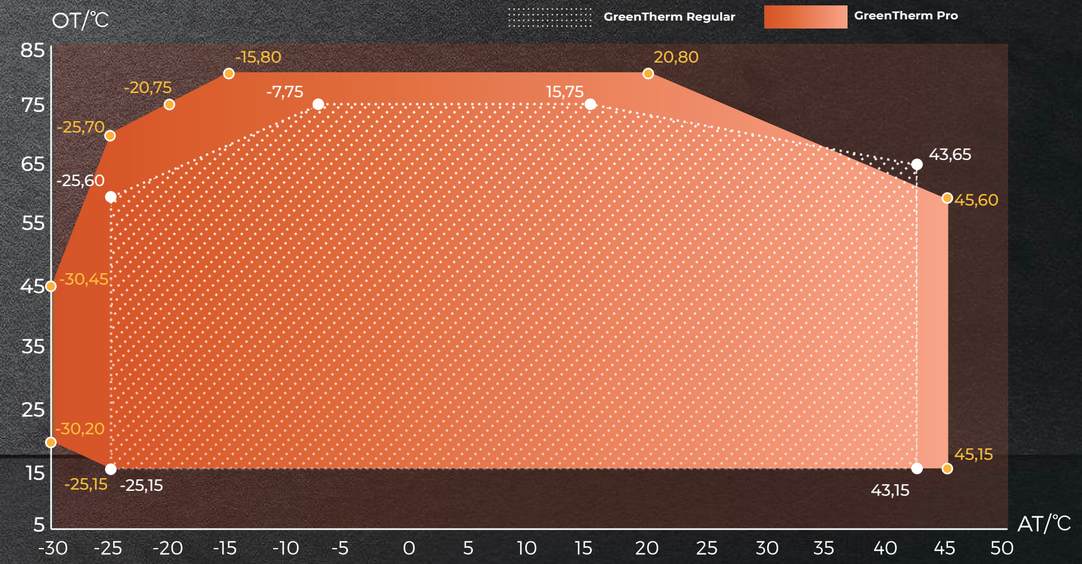
- **High Outlet water temperature:** Up to 80°C
- **Ultra-Low Ambient Operation:** Stable performance down to -30°C
- **Superior Performance:** GreenTherm Pro achieves the A+++ energy label at both 35°C and 55°C water temperatures. This ensures maximum energy savings and full compliance with the strictest European efficiency standards.





Operating Envelope

- **Expanded Capacity Range:** PHNIX's first 4 kW & 7 kW EVI residential heat pumps, covering a wider range of household applications
- **Jointly Developed Drive System:** Co-developed with GMCC, the back-EMF motor is precisely matched to EVI operating conditions, balancing high performance with long-term reliability



Optimized Water Circuit Design

5kPa Lower on Water Resistance

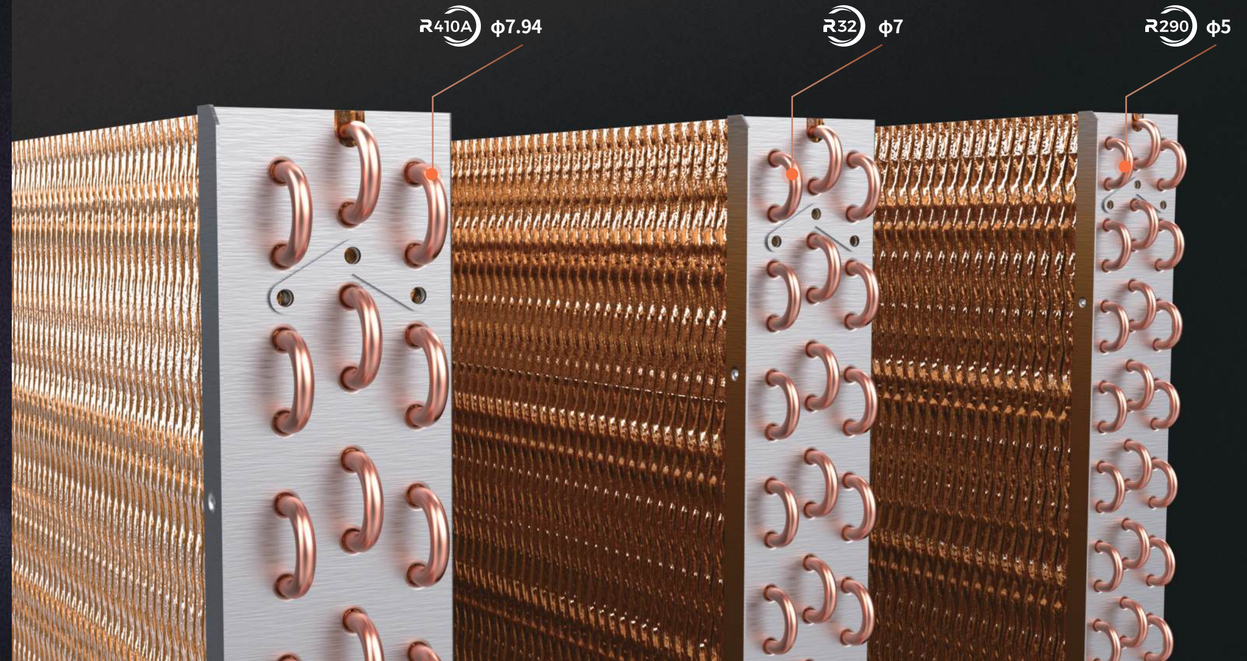
By retaining only one 90° elbow in the water circulation loop, GreenTherm Pro reduces water resistance by up to 5 kPa, enhancing water-side heat exchange efficiency and overall heating performance.



Optimized Heat Exchanging System Design

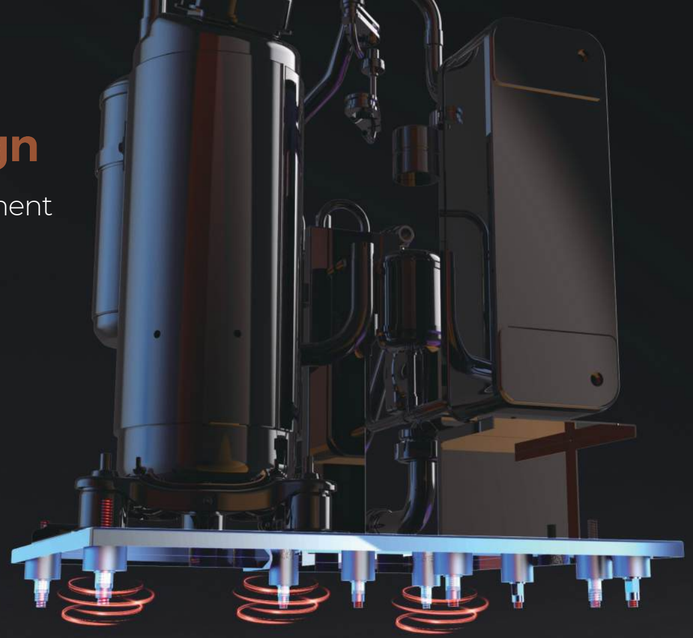
ϕ5 Fin Tube Design | 20% Increase in COP

GreenTherm Pro is the first residential heat pump to apply ϕ5 fin tubes, delivering a higher heat transfer coefficient, achieving up to a 20% increase in COP.



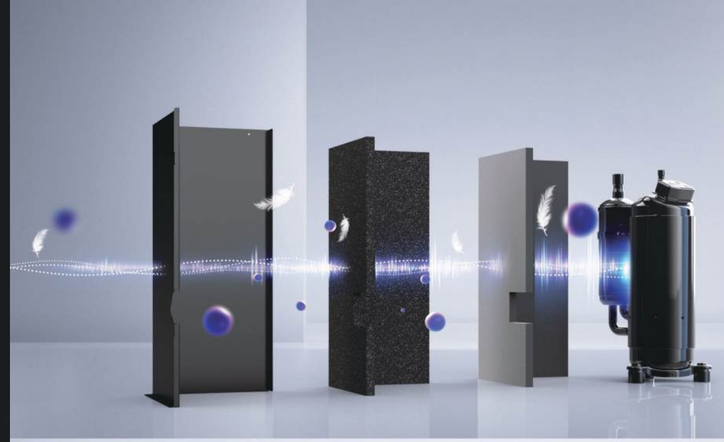
31dB(A)
Ultra-Quiet Design

Compliant with the requirement of German TA Lärm.



Full Suspension Technology for Compressor and Assembly Compartment

- Effectively isolates vibration transmission



Composite Sound-Absorbing Insulation

- Suppresses both high-frequency tonal noise and low-frequency vibration

Intelligent Quiet Modes

- One-Key Mute Mode and Night Mode available
- Users can freely set quiet operation periods based on daily habits



R290 Leak Protection

R290 Leak Detection

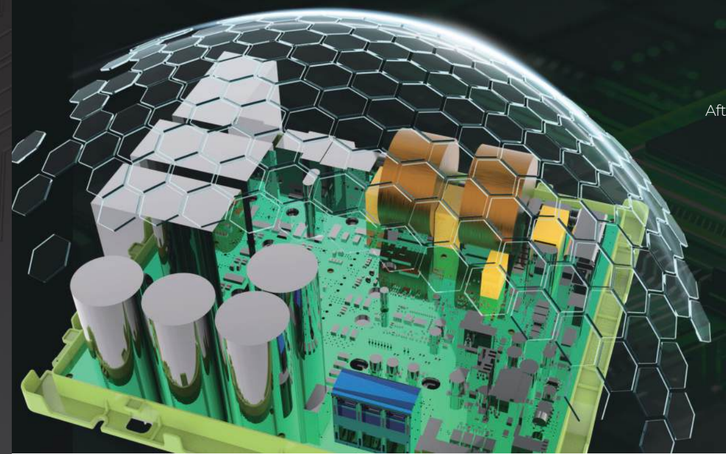
The system monitors refrigerant concentration in real time. If levels exceed safety thresholds, it triggers an instant alert and automatically stops operation. Notifications are simultaneously sent to both the controller and the APP.



Gas Separator

The built-in gas separator efficiently captures and vents micro-bubbles from the water circuit into the atmosphere. This safety barrier prevents R290 from entering indoor spaces, while ensuring smooth water flow for higher efficiency and quieter operation.





Potting for Board Protection

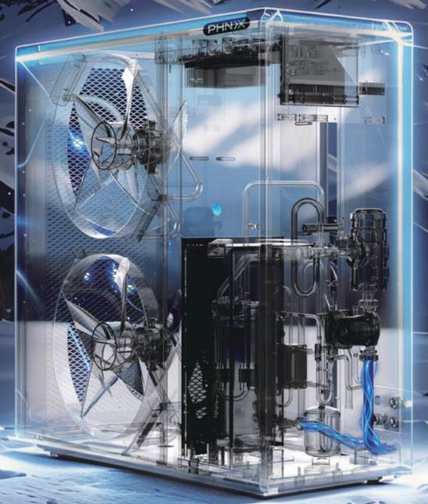
After glue filling, it offers 3-fold protection, including resistance to moisture, insect, and corrosion, as well as protection against short circuits

Multi-Level Anti-freezing Protection

Active frost protection is the foundation of reliable winter heating

- **Intelligent Real-time Monitoring:** Built-in sensors continuously track system water temperatures. In low-ambient conditions, the unit automatically activates protective measures to prevent internal components and pipelines from freezing.

- **Two-Stage Safety Logic:** If the water temperature drops to the preset threshold, the system triggers Level 1 Protection. Should the temperature continue to fall, Level 2 Protection is instantly activated to prevent frozen damage and ensure long-term hardware integrity.

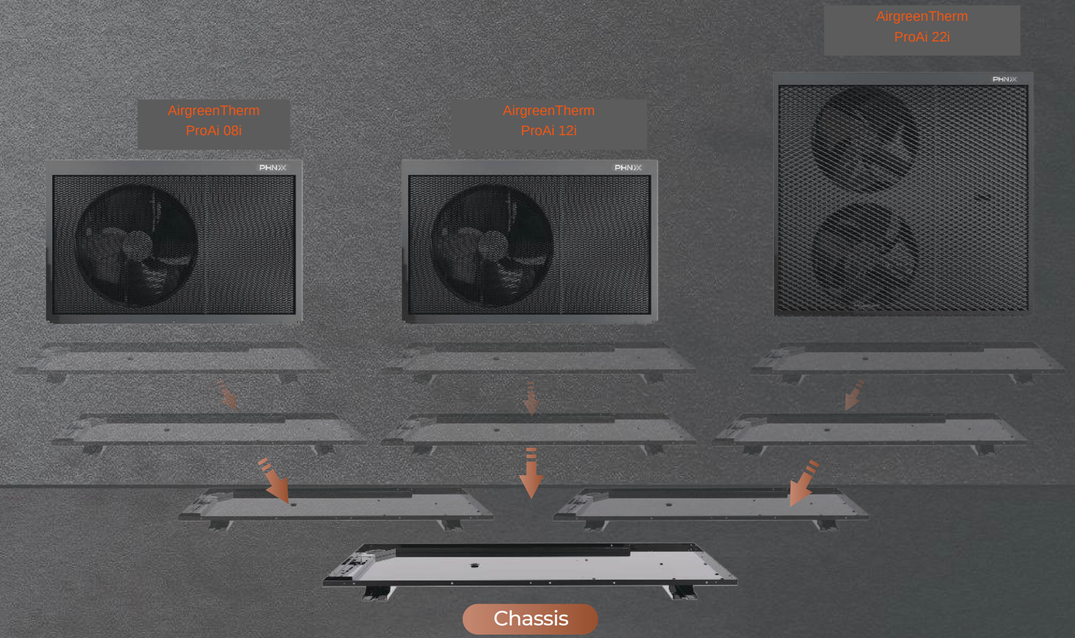


- Exhaust Protection
- Over Current Protection
- Over Voltage Protection
- Low Pressure Protection
- High Pressure Protection
- High Water Temperature Protection
- Low Voltage Protection
- Low Water Flow Protection
- Low Ambient Temperature Protection

Friendly Installation

60% Key Components Commonality

With 60% components sharing across different models, GreenTherm Pro significantly reduces spare part varieties and inventory pressure. This design lowers procurement, warehousing, and after-sales management costs, improving overall service efficiency for B2B partners.

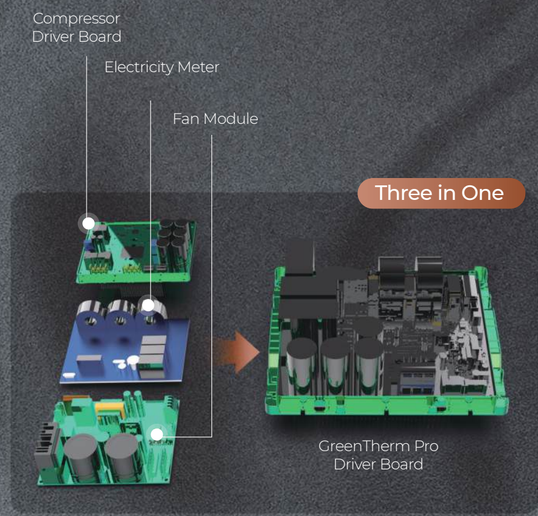


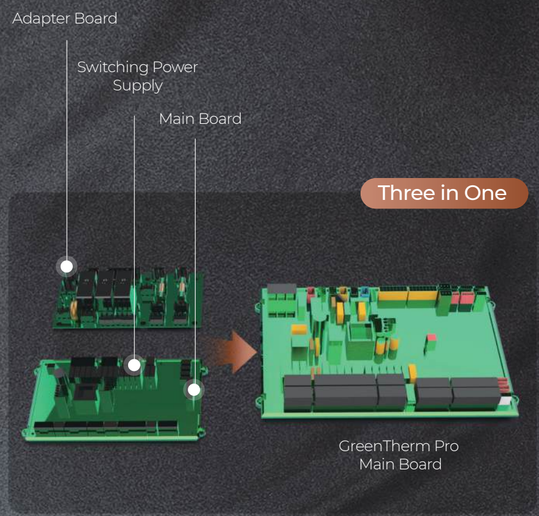
Highly Integrated PCB Board

● **Enhanced Production Efficiency**
The dual-board architecture eliminates complex wiring, minimizing assembly errors and ensuring faster delivery for your orders.

● **Simplified Service & Maintenance**
A clean internal layout makes component access and troubleshooting effortless, drastically reducing service time and after-sales costs.

● **Superior Reliability**
Reduced wiring means fewer connection failures and less signal interference, ensuring long-term stable operation.

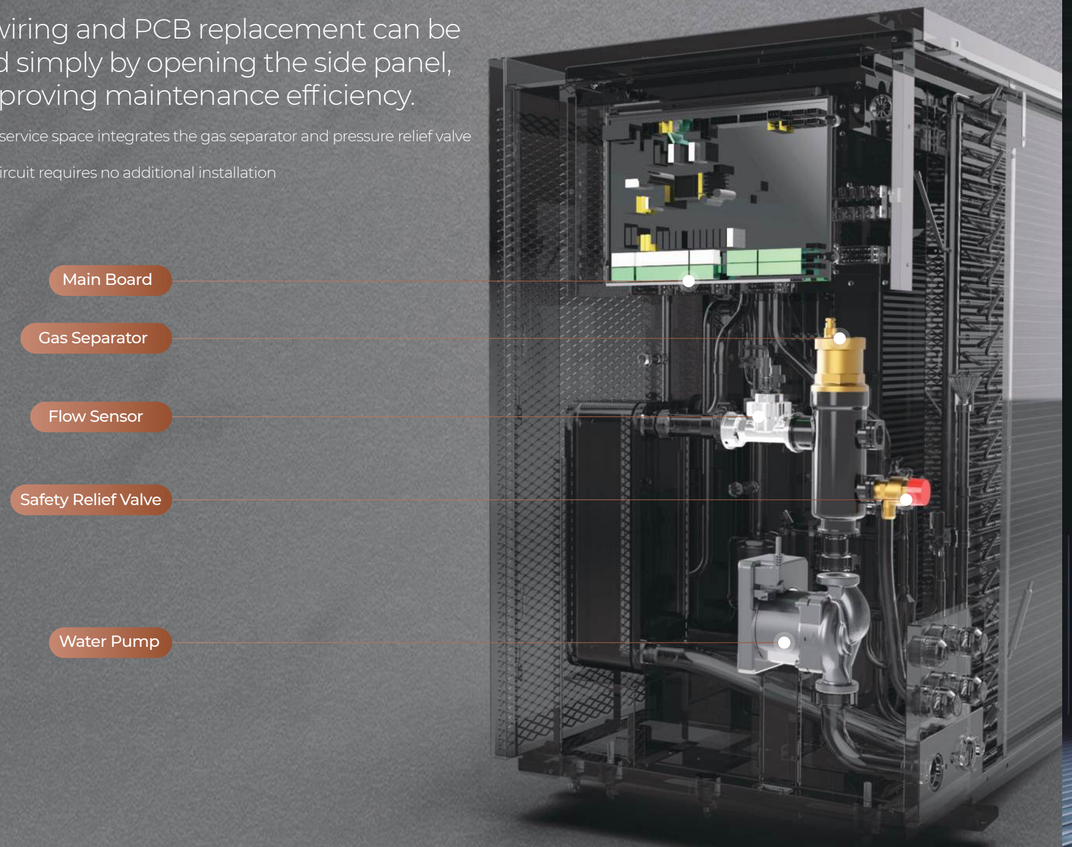




Service-Friendly Design

Terminal wiring and PCB replacement can be completed simply by opening the side panel, greatly improving maintenance efficiency.

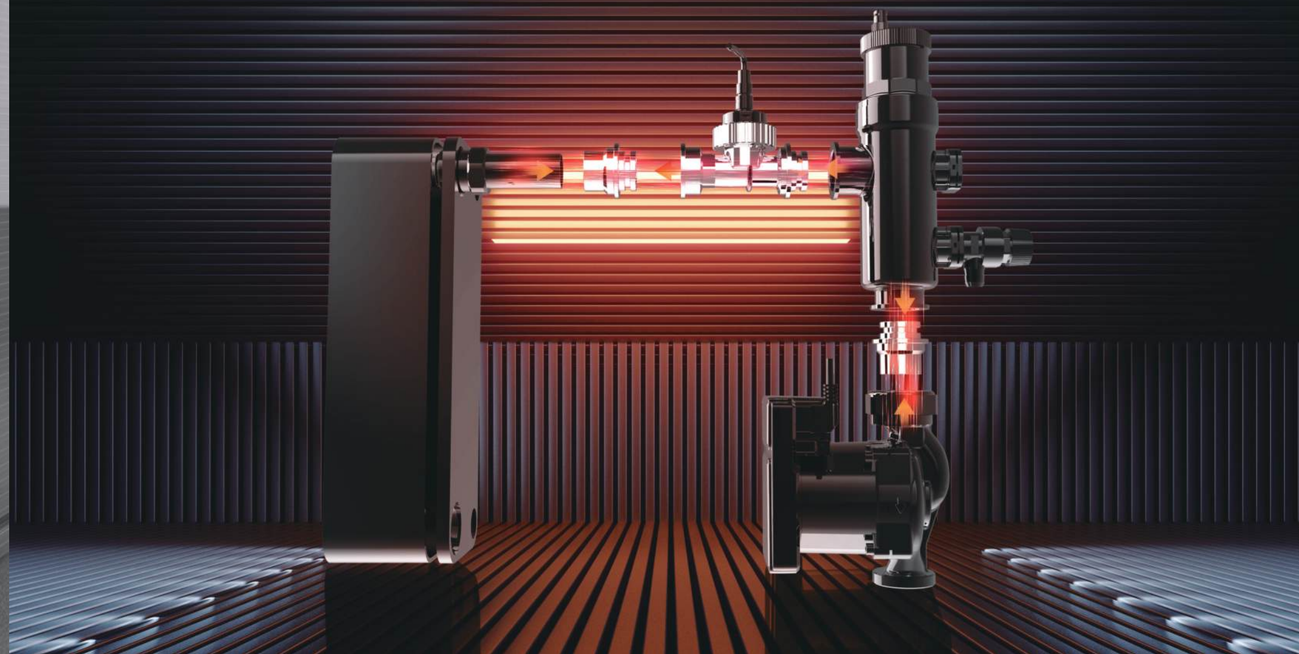
- Extra-large side service space integrates the gas separator and pressure relief valve
- External water circuit requires no additional installation



Snap-Fit Assembly Design

Minimizes traditional threaded connections, enabling quick disassembly and reassembly.

- Reduce assembly time
- Improve service convenience
- Lower after-sales service costs

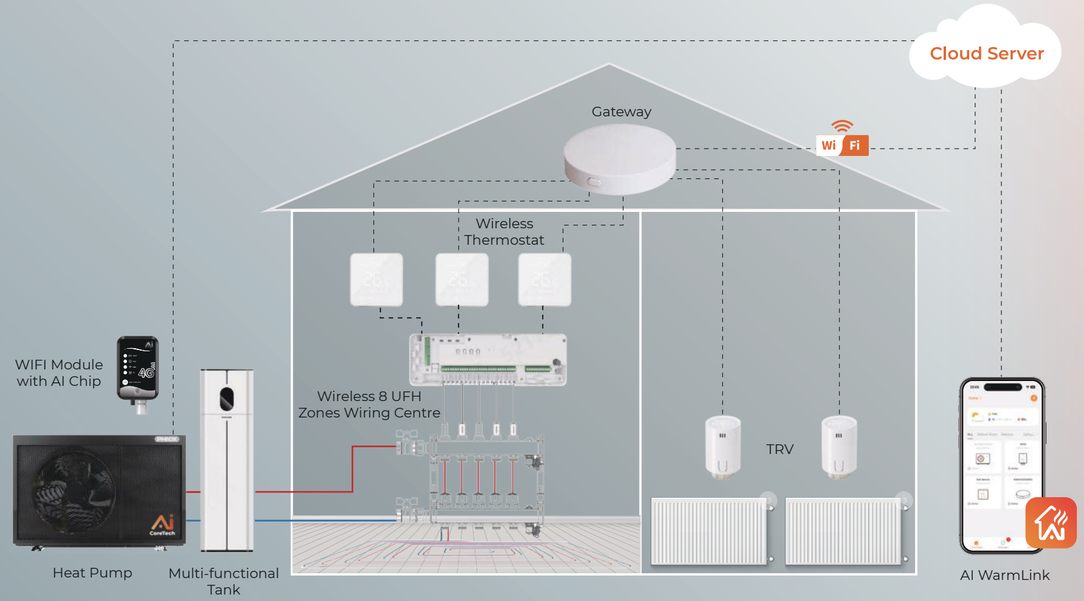


Universal Design-Modbus

The modbus protocols and displays are compatible for all the three generations of heat pumps.



Wireless Temperature Controller Solution



Specification

Model	Product Type	Photo	Technical Data	Net/Gross Weight	Unit/Package Size (L x W x H)
TH01	Wireless Thermostat		Heating Mode & Cooling Mode Operating Voltage: 4*aaa Battery Power Supply Or 5V/1A Type C Frequency: 868 Mhz Temperature Settings: 5°C~ 35°C Accuracy: ±0.5°C Color: White With A Wall-fixing Frame, Base And A Very Compact Receiver (Surface-mounted).	140g/250g	100.6mm x 100.6mm x 22mm 130mm x 110mm x 65mm
RF01	Smart Gateway RF		Operating Voltage: 5VDC Operating Current: 1A Operating Connector: Type C USB Frequency: 868mhz Environment Temperature : 5°C ~50°C Color: White	30g/80g	Φ65mm x 15mm 110mm x 75mm x 50mm
TR01	Wireless Thermostatic Radiator Valve（TRV）		Thermostat Operating Voltage: 2 X AA1.5V, Alkaline Batteries Frequency: 868 Mhz Temperature Settings: 5°C ~ 35°C Accuracy: ± 1°C Control: PID Color: White	125g/210g	Φ50mm x 69mm 140mm x 80mm x 60mm
WH01	Wireless 8 UFH Zones Wiring Centre		Power Supply: 230VAC, 50/60 Hz Heat Pump Output: 230VAC Output Frequency: 868 Mhz Max. Current: 5A For Each Output Up To 8 Room Thermostats Up To 16 Thermal Actuators	540g/635g	353.5mm x 85mm x 45mm 370mm x 95mm x 50mm

Wiring Center Box

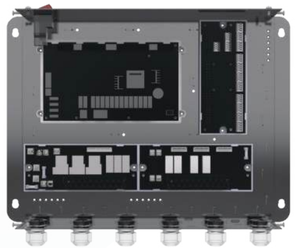
Integrate the main control board and other PCBs in an optimal layout, streamlining on-site installation while eliminating separate outdoor unit wiring, significantly reducing installation time, labor costs, and wiring errors.



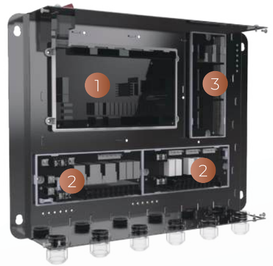
Structure Display



External View



Internal View

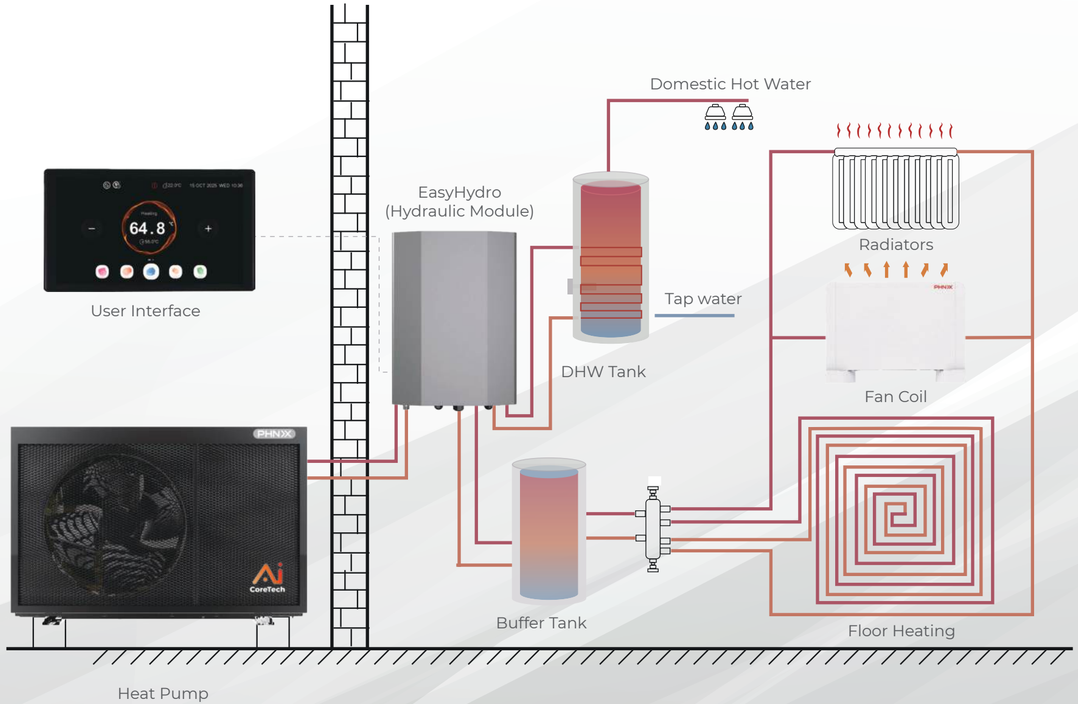


1. Main Board
2. Adapter Board for Terminal Block (Strong Current)
3. Adapter Board for Terminal Block (Weak Current)

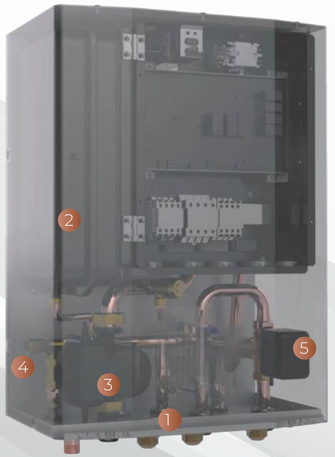
Specification

Model	
Rated Voltage / Frequency	220-240V~/50Hz
Moisture Resisitance	IP20
Electrical Shockproof	I
Net Weight	7 kg
W/H/D	493/392/95mm
Rated Current	5A

Installation with EasyHydro



Integrated Design



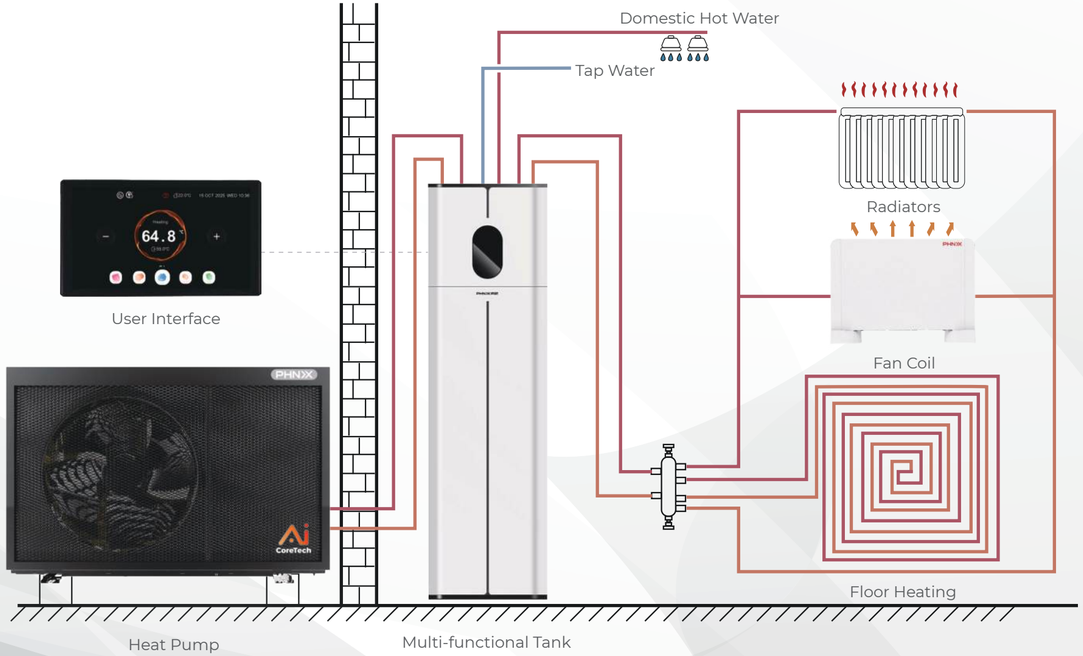
1. Color Screen Controller
2. 10L Expansion Tank
3. Water Pump(Optional)
4. 3-way Valve
5. Electric Heater

Specification

Model		EHB030-C	EHB090S-C
Power Supply	/	220-240V~/50Hz	380-415V/3N~/50Hz
Water Temp. Range	°C	5~75	
Filling Water Connection	inch	3/4	
Drain Connection	inch	3/4	
Heat Pump Side Water Connection	inch	1	
Heating Side Water Connection	inch	1	
Hot Water Side Water Connection	inch	1	
Max. Water Pressure	bar	3	
Main Circulation Water Pump	/	Water Pump(Optional)	
*Water Head	m	9.8	
*Water Pressure Drop	kPa	22	
Expansion Tank	L	10	
Electrical Heater	kW	3	3+6
*Sound Pressure at 1 Meter	dB(A)	35	
Water Return Pipe Design	/	Yes	
Dual Zone Control	/	Yes	
Net Weight	kg	53	
Unit Dimensions (L x W x H)	mm	665×485×295	

*The test flow rate is 1.7m³/h

Installation with Multi-functional Tank



Integrated Design



Specification

Model		HB60-180	HB60S-180
Power Supply	/	220V-240V~/50Hz	380V-415V~/50Hz
Max. Power Input	kW	6	13.2
Max. Current Input	A	26	30
Net Weight	kg	137	137
Electrical Heater for Heating	kW	3	3+6
Electrical Heater for DHW	kW	2	
DHW Tank Volume	L	180	
Buffer Tank Volume	L	60	
Expansion Tank	L	12	
Water Connection (inch)	inch	1	
Cabinet Type	/	Galvanized sheet metal	
Unit Dimension(L/W/H)	mm	695×595×1800	
Shipping Dimension(L/W/H)	mm	780×685×1950	

1. Color Screen Controller
2. 12L Expansion Tank
3. Water Pump
4. 3-way Valve
5. Electric Heater for House Heating
6. Buffer Tank
7. DHW Tank
8. Electrical Heater for DHW

Specification

Model		AirgreenTherm ProAi 08i	AirgreenTherm ProAi 12i (1)	AirgreenTherm ProAi 12i	AirgreenTherm ProAi 22i (1)	AirgreenTherm ProAi 22i
Power Supply	/	220-240V~/50Hz	220-240V~/50Hz	380~415V/3N~/50Hz	220-240V~/50Hz	380~415V/3N~/50Hz
Heating Condition - Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 30/35°C						
Nominal Heating Capacity	kW	6	12	12	17	17
Heating Capacity Range	kW	1.90-6.38	4.29-12.80	4.46-12.80	6-18.5	6-18.5
Heating Power Input Range	kW	0.44-1.27	0.70-2.74	0.74-2.74	1.3-5.58	1.3-5.58
Heating Condition - Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 47/55°C						
Nominal Capacity	kW	6	12	12	17	17
Heating Capacity Range	kW	1.06-6.72	4.35-12.16	4.25-12.16	6-18	6-18
Heating Power Input Range	kW	0.65-2.12	0.94-3.80	0.92-3.80	1.8-5.45	1.8-5.45
Cooling Condition - Ambient Temp. (DB/WB): 35/24°C, Water Temp. (In/Out): 23/18°C						
Cooling Capacity Range	kW	2.05-10.05	4.63-17.99	4.63-17.99	6.0-23.0	6.0-23.0
Cooling Power Input Range	kW	0.53-2.62	0.91-5.38	0.91-5.38	1.3-7.3	1.3-7.3
Cooling Condition - Ambient Temp. (DB/WB): 35/24°C, Water Temp. (In/Out): 12/7°C						
Cooling Capacity Range	kW	1.12-6.82	3.44-14.14	3.44-14.14	4-17	4-18
Cooling Power Input Range	kW	0.57-2.54	1.01-5.14	1.01-5.14	1.7-7.1	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
Refrigerant Type	/			R290		
Refrigerant Volume	kg	0.7	1	1	1.3	1.3
Sound Pressure (1m)	dB(A)	39	42	42	46	45
Sound Power Level (EN12102)	dB(A)	48	51	51	53	51
Net Weight	kg	133	145	148	191	200
Unit Dimension(L/W/H)	mm	1370×590×915	1370×590×915	1370×590×915	1370×590×1335	1370×590×1335
Shipping Dimension(L/W/H)	mm	1490×610×1050	1490×610×1050	1490×610×1050	1490×610×1470	1490×610×1470
Circulation Pump	/			Yes		
Operating Ambient Temperature	C			-30~45		
Fan Motor Type	/			DC motor		
Water Connection	inch			1		
Rated Water Flow	m3/h	1.03	2.06	2.06	2.92	2.92
Water Pressure Drop @Rated Water Flow	kPa	12	23	23	40	40
Circulation Pump Head @Rated Water Flow	m	7	7.8	7.8	10.4	10.4
Cabinet type	/			Alloy		