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Aklimat Aura

Industry First AI Heat Pump

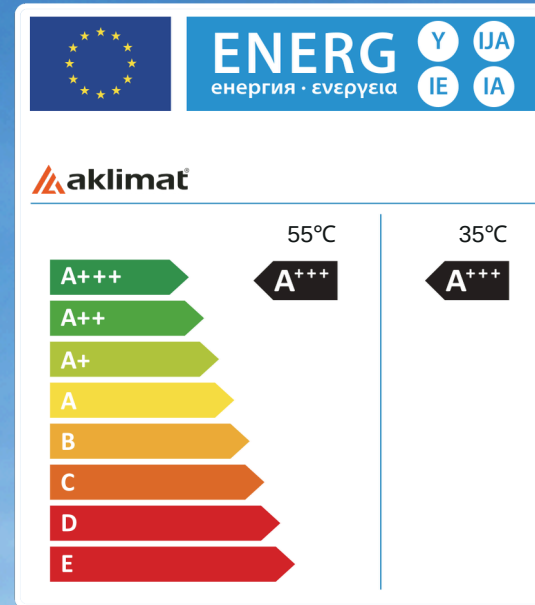


EVI Technology

30% Increase in COP

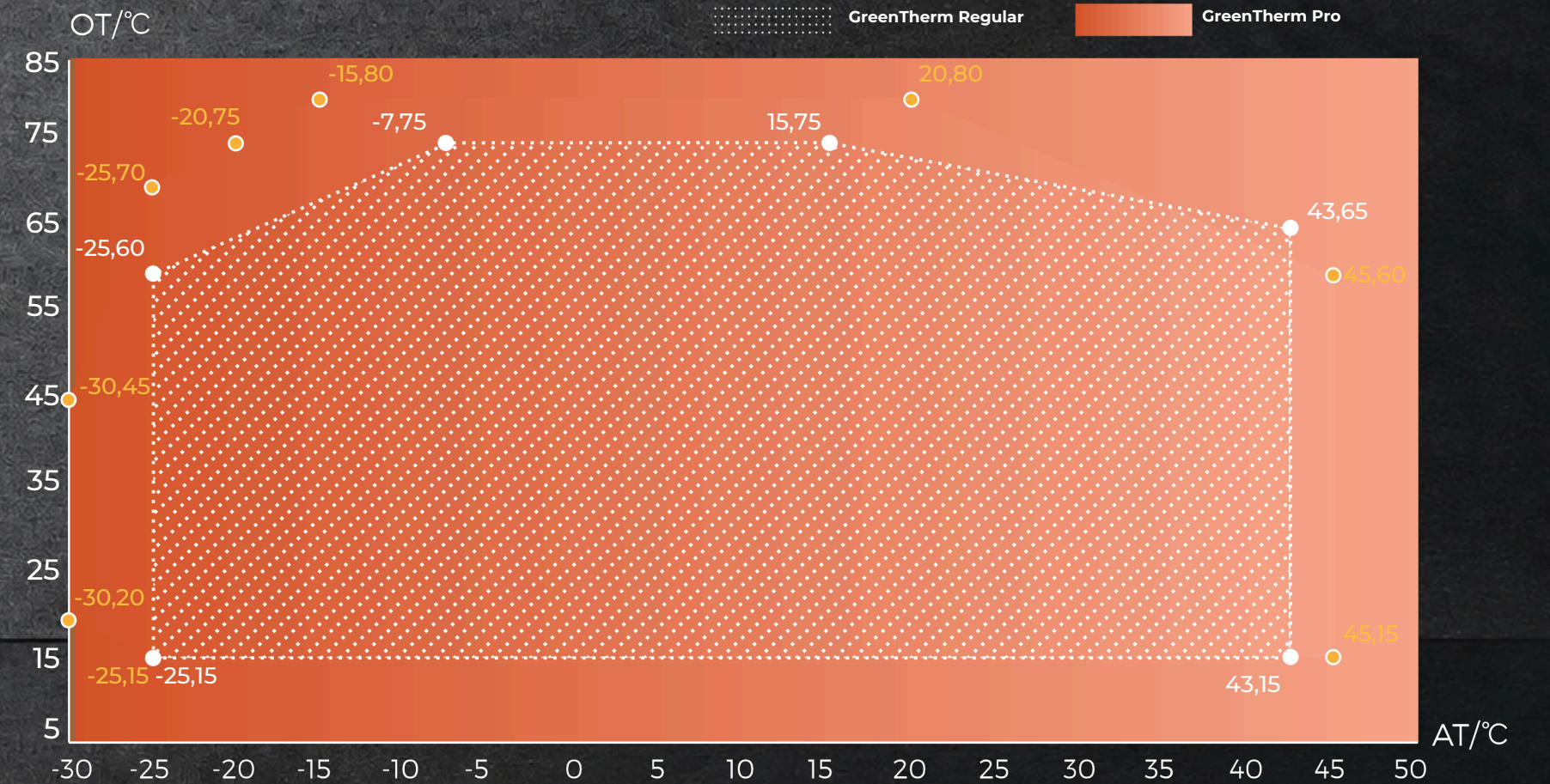
Equipped with the latest EVI compressor, Aklimat Aura delivers high energy efficiency and stable performance even under extreme cold conditions.

- **High Outlet water temperature:** Up to 80°C
- **Ultra-Low Ambient Operation:** Stable performance down to -30°C
- **Superior Performance:** Aura Series 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:** Aklimat 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



5kPa Lower on Water Resistance

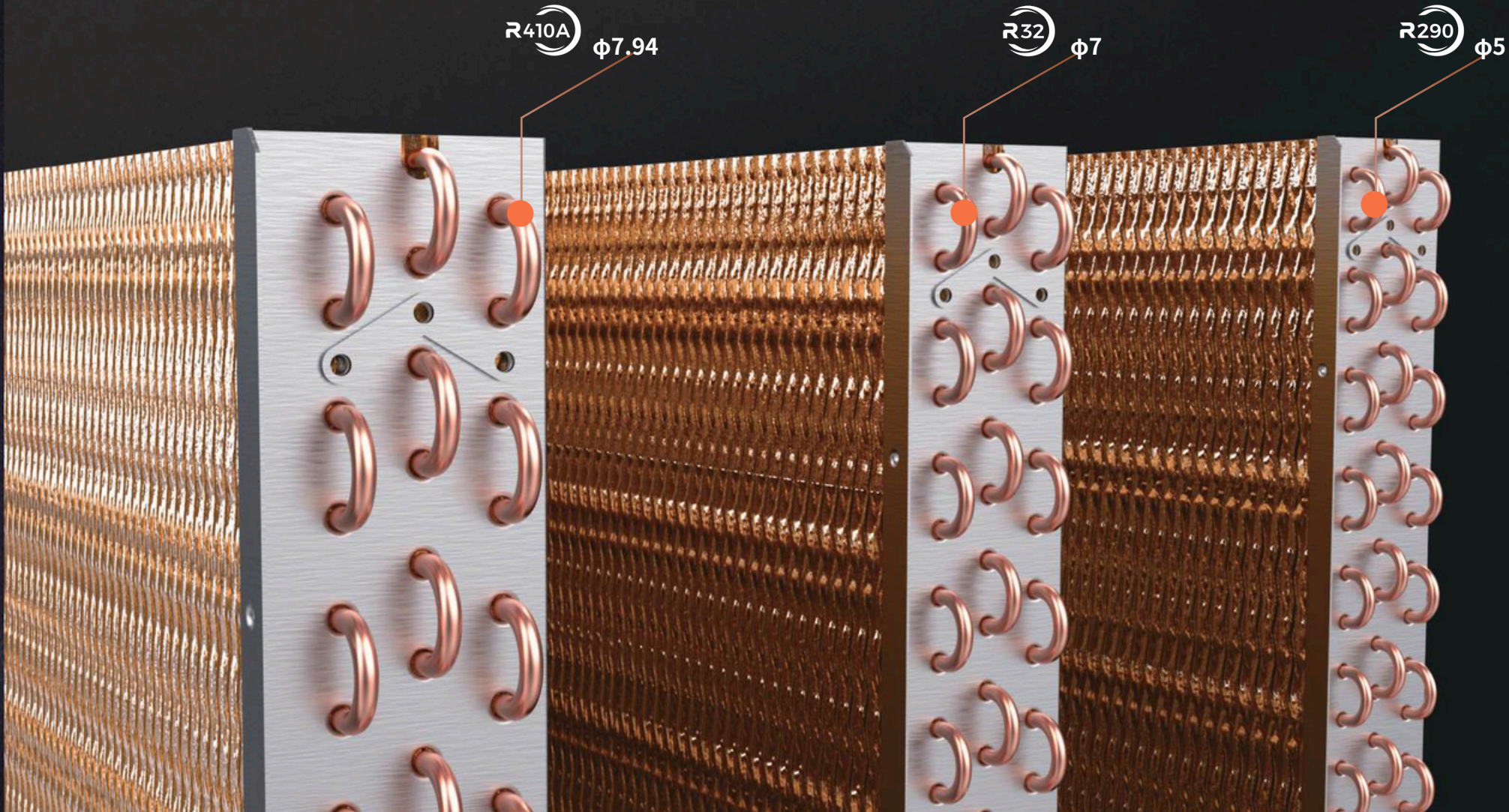
By retaining only one 90° elbow in the water circulation loop, Aklimat Aura reduces water resistance by up to 5 kPa, enhancing water-side heat exchange efficiency and overall heating performance.



Optimized Heat Exchanging System Design

φ5 Fin Tube Design | 20% Increase in COP

Aklimat Aura is the first residential heat pump to apply φ 5 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.

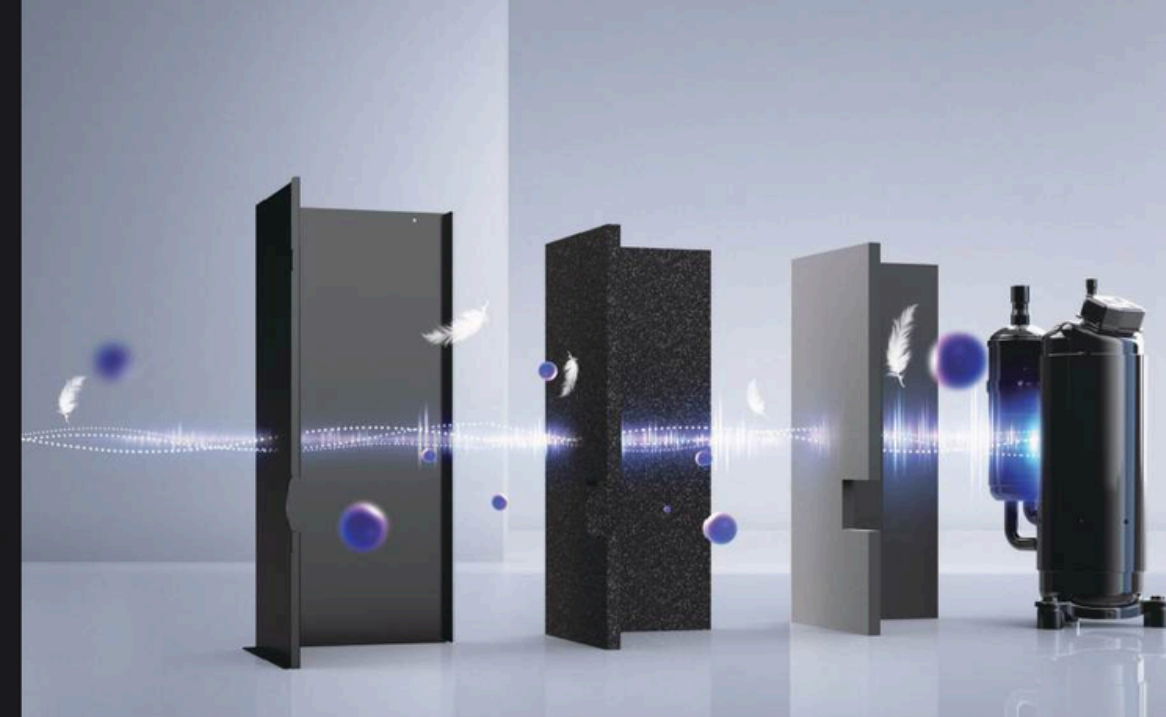


Full Suspension Technology for Compressor and Assembly Compartment

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



10dB(A)
Flowers Blooming



20dB(A)
Rustle of Leaves



31dB(A)
Aklimat Aura
Heat Pump

40dB(A)
Refrigerator



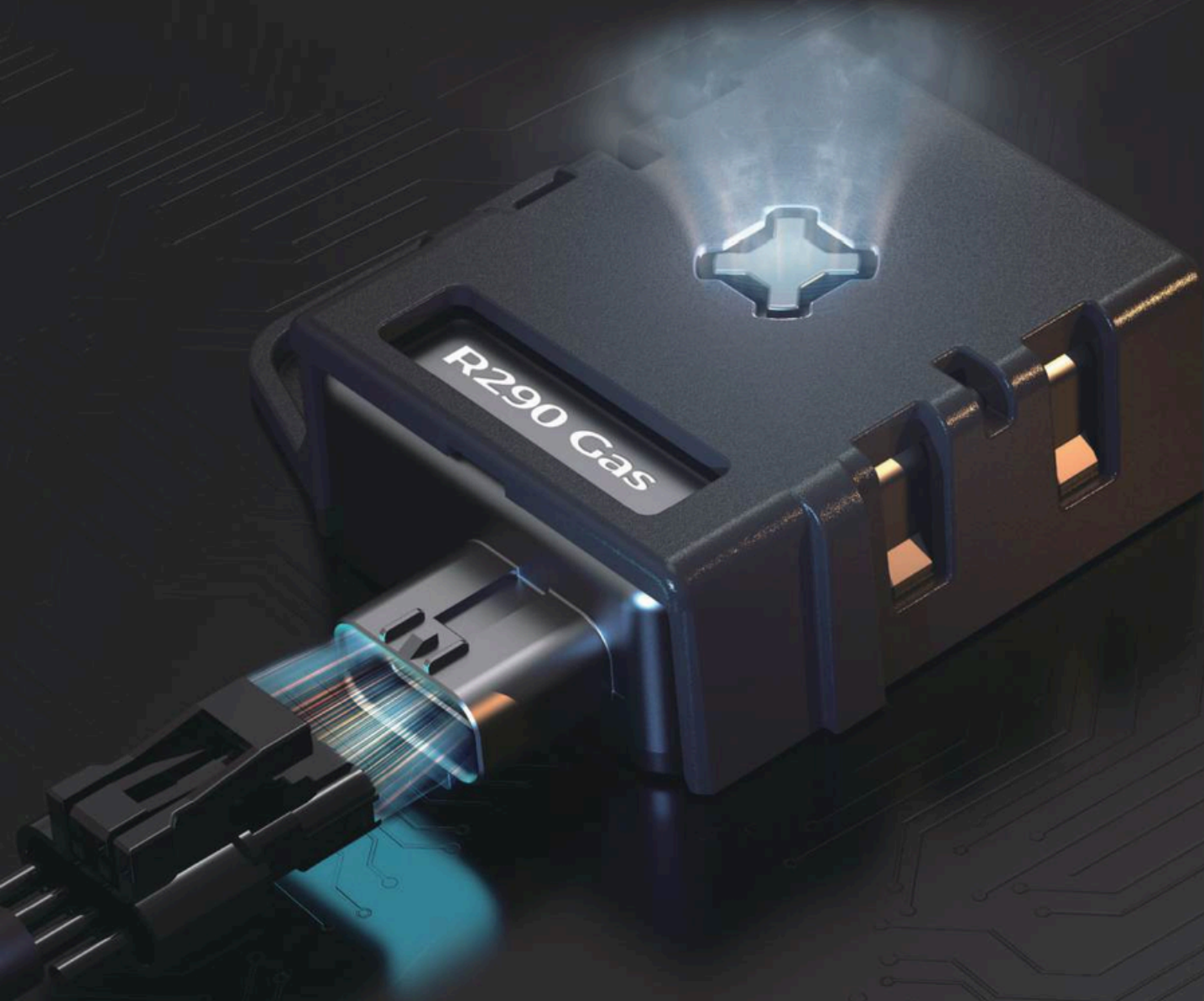
70dB(A)
Car



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.



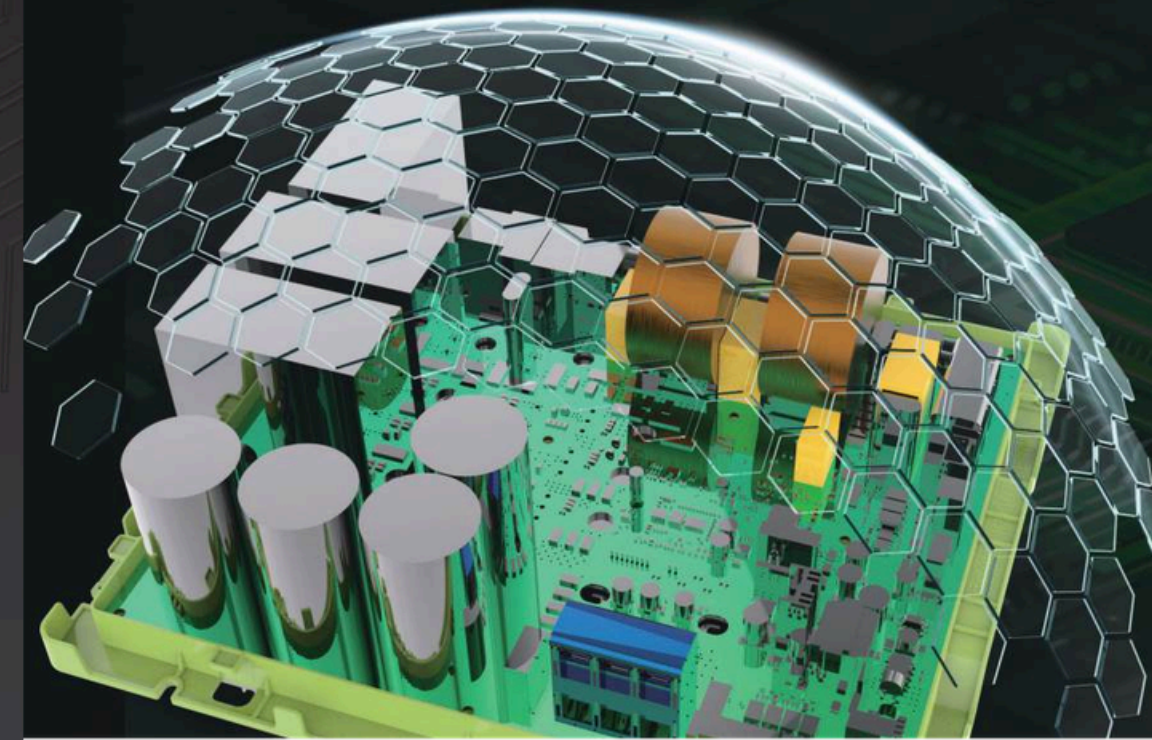
Gas Separator

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

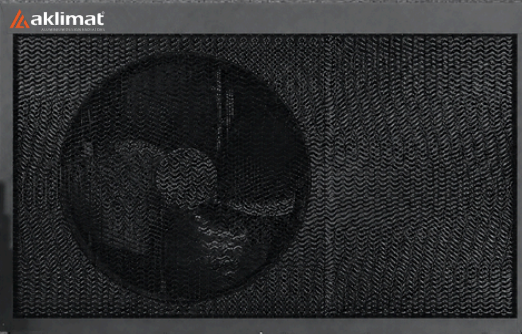


Low Ambient
Temperature Protection

Friendly Installation

60% Key Components Commonality

With 60% components sharing across different models, Aura 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.



AURA 6

AURA 8

AURA 10

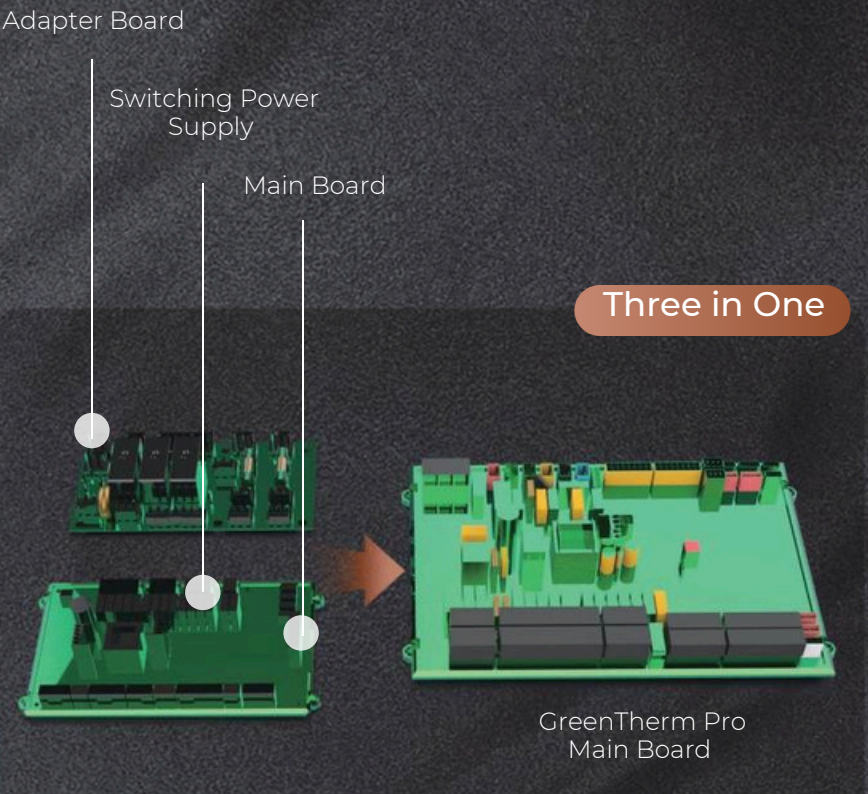
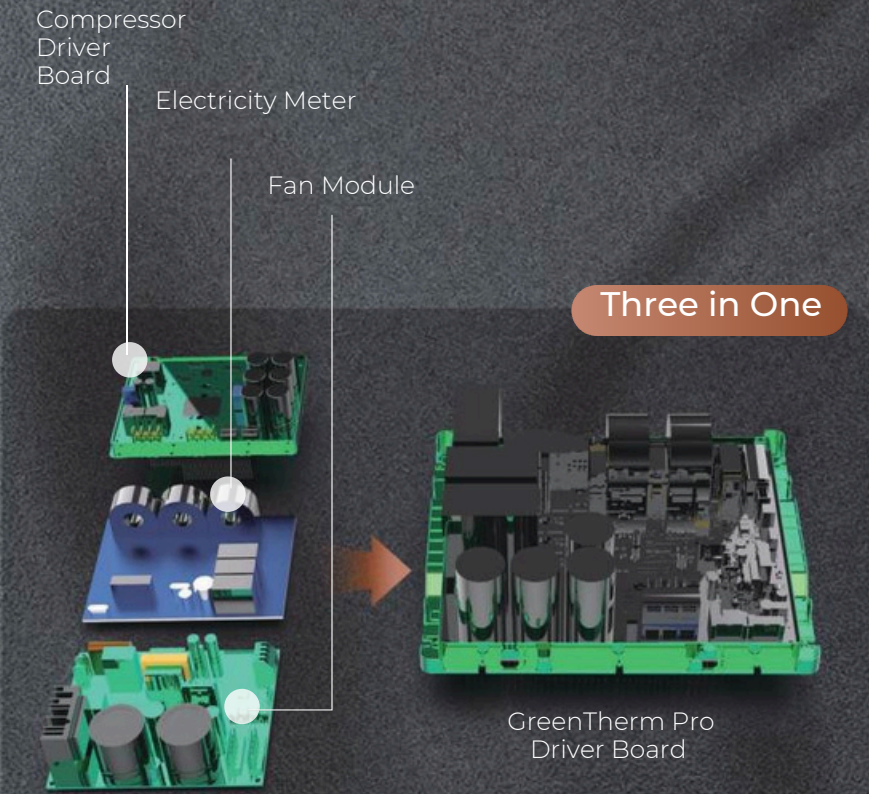
AURA 12



AURA 17

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

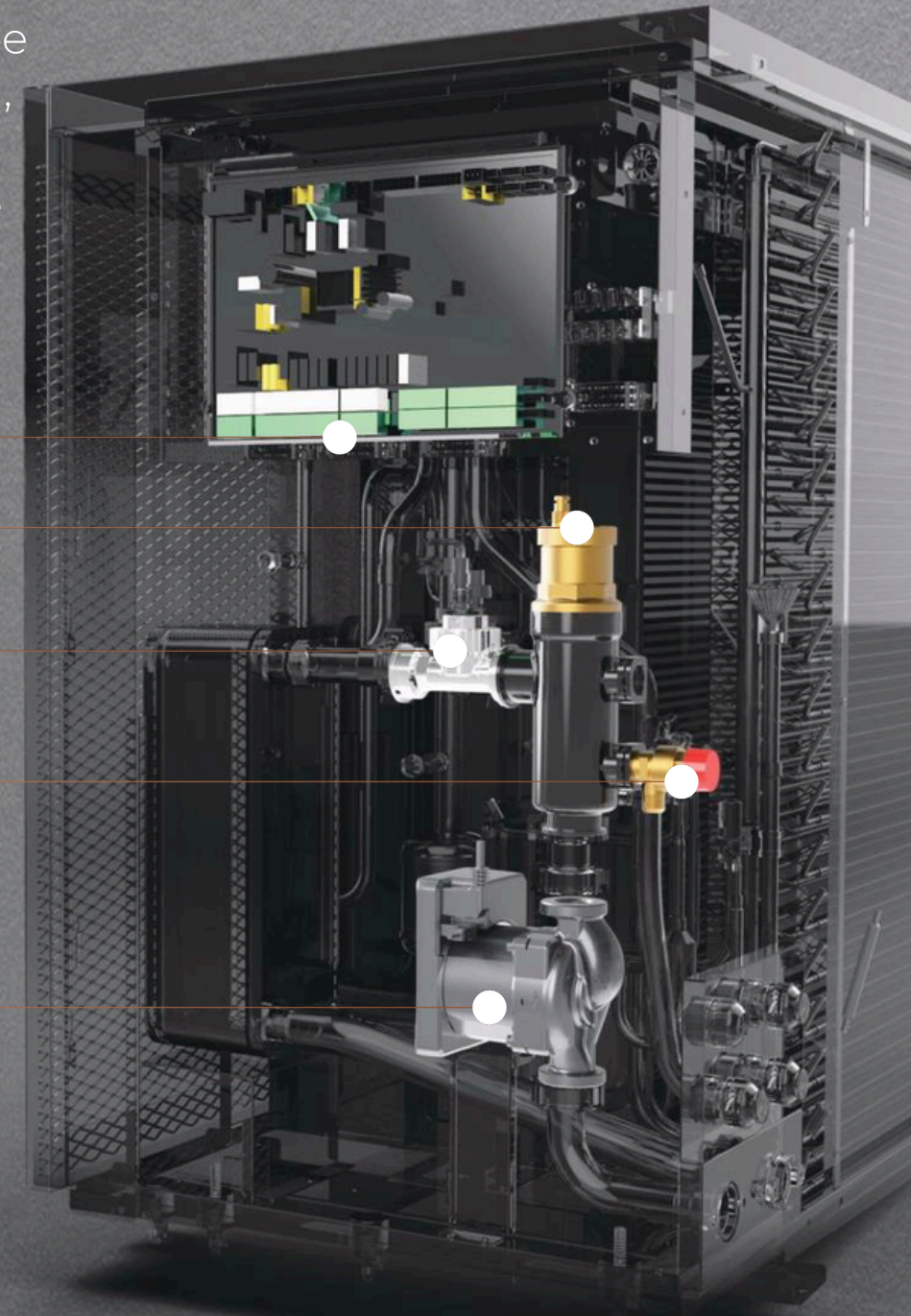
Main Board

Gas Separator

Flow Sensor

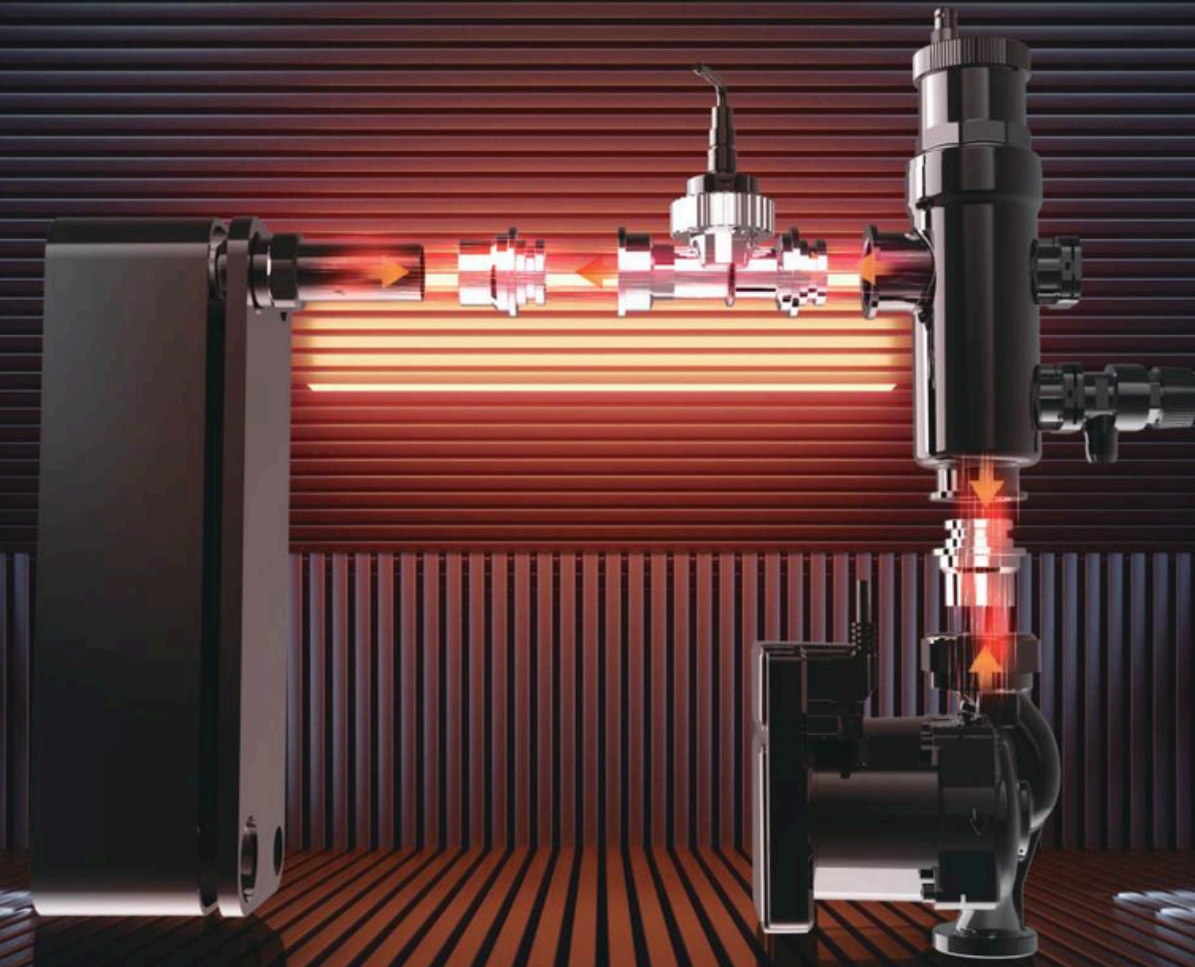
Safety Relief Valve

Water Pump

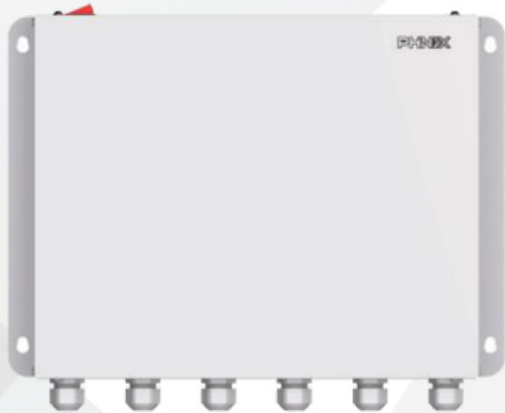


Minimizes traditional threaded connections, enabling quick disassembly and reassembly.

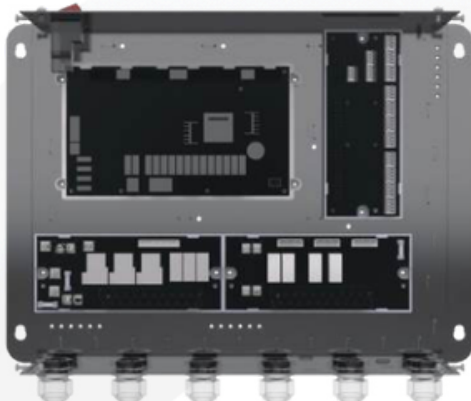
- Reduce assembly time
- Improve service convenience
- Lower after-sales service costs



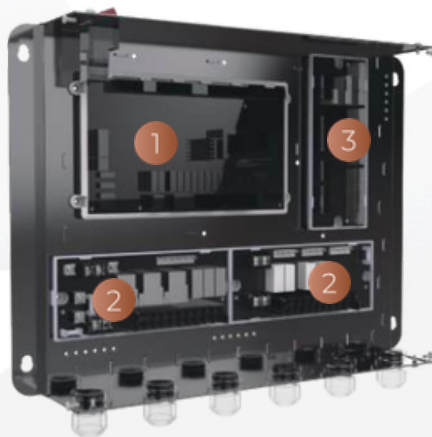
Structure Display



External View



Internal View

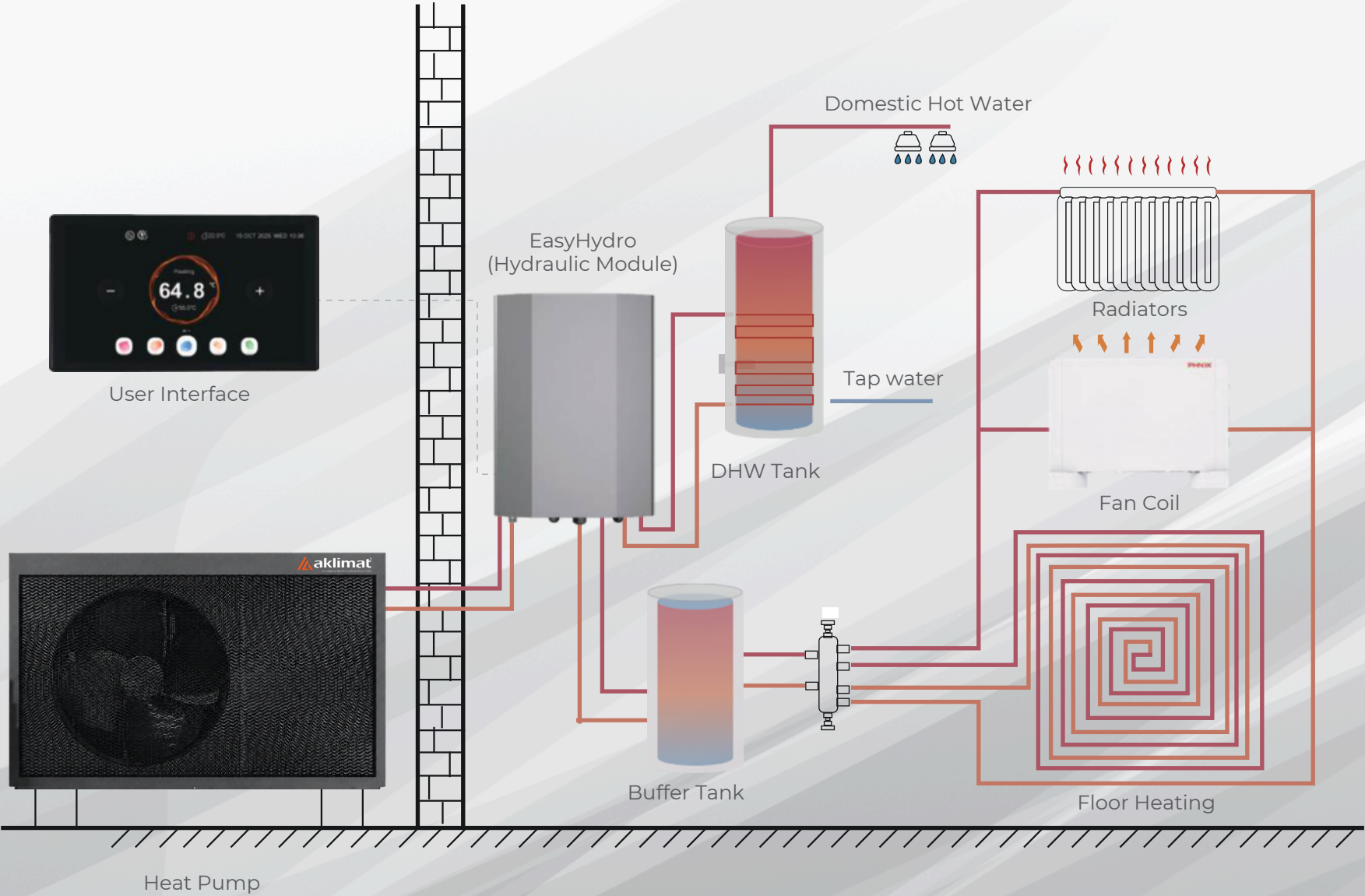


- 1 Main Board
- 2 Adapter Board for Terminal Block (Strong Current)
- 3 Adapter Board for Terminal Block (Weak Current)

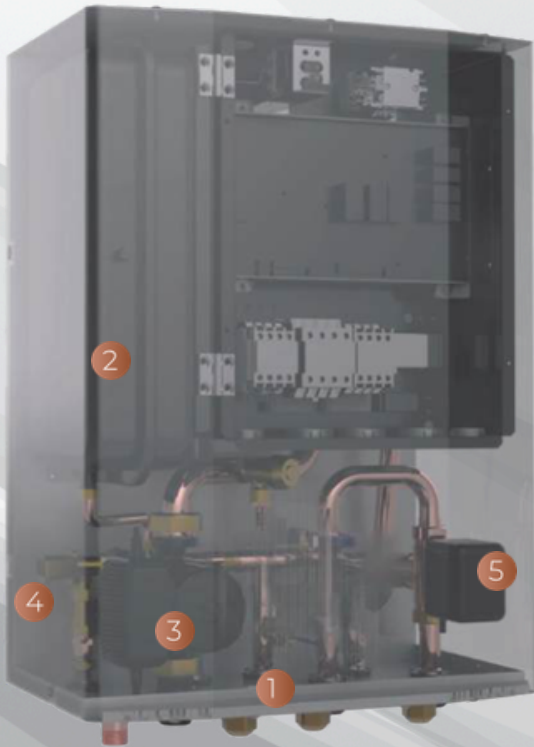
Specification

Model	
Rated Voltage / Frequency	220-240V~/50Hz
Moisture Resisance	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

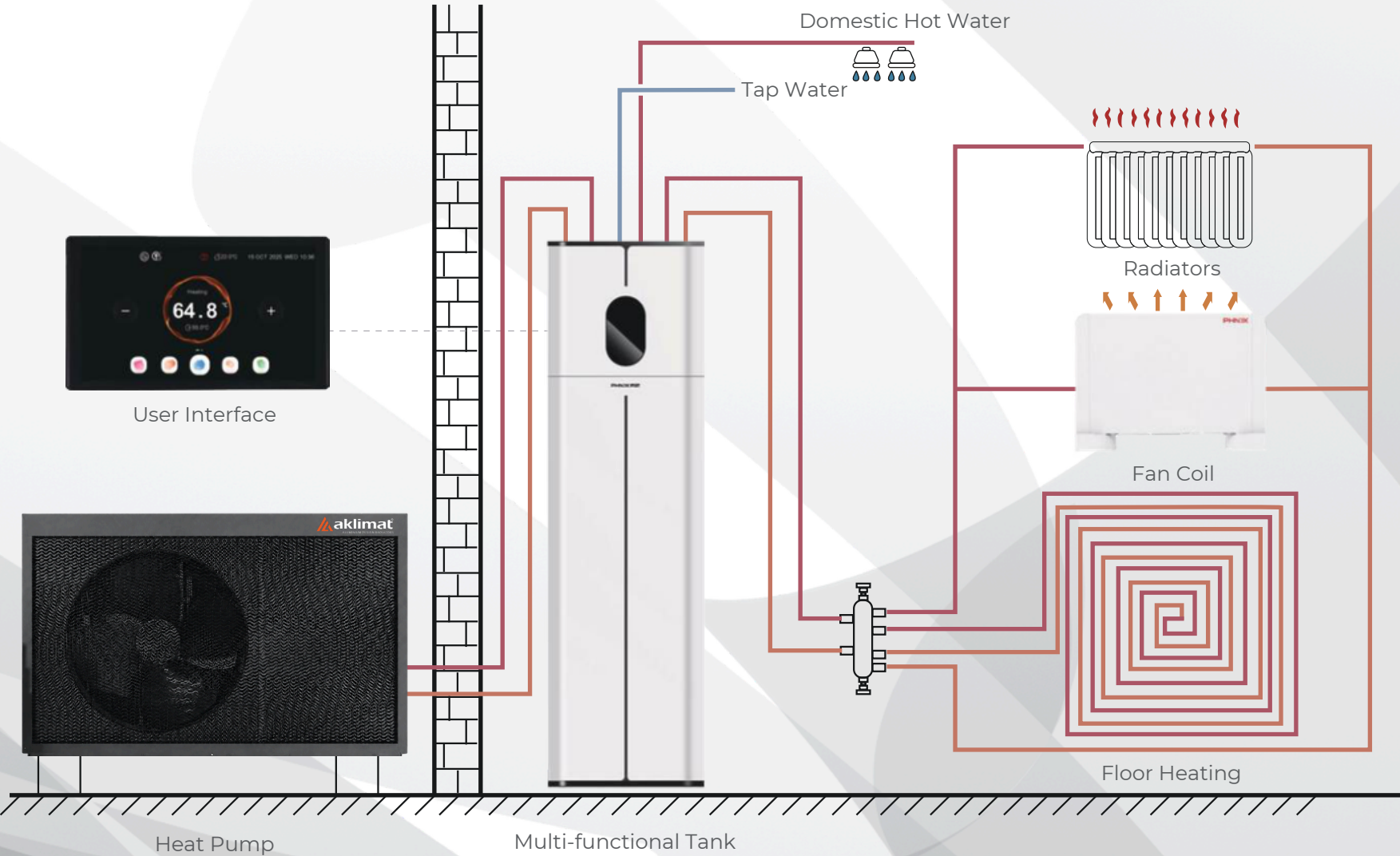
Electric Heater

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



Specification

Parameter	Unit	AKLIMAT AURA 6	AKLIMAT AURA 8	AKLIMAT AURA 10	AKLIMAT AURA 12	AKLIMAT AURA 17
Type of unit	–	Monobloc	Monobloc	Monobloc	Monobloc	Monobloc
Refrigerant	–	R290	R290	R290	R290	R290
Seasonal space heating efficiency (EN14825)	kW	5	8	10	12	17
SCOP, heating (55/30°C), standard/climate	–	5.00 / 10.60	5.00 / 10.60	5.00 / 10.01	5.00 / 10.01	5.00 / 24.05
SCOP, heating (55/45°C), standard/climate	–	3.81 / 8.10	3.81 / 8.10	3.81 / 6.55	3.81 / 6.55	3.72 / 6.30
Seasonal space heating efficiency (EN14825)	kW	6	8	10	12	17
SCOP, heating (35/30°C), standard/climate	–	5.00 / 9.57	5.00 / 9.57	5.00 / 15.87	5.00 / 15.87	5.00 / 22.69
SCOP, heating (35/45°C), standard/climate	–	3.89 / 3.37	3.89 / 3.37	3.18 / 6.55	3.82 / 6.55	5.43 / 8.06
Seasonal space cooling efficiency (EN14825)	kW	6.0	7.8	10	12	17
SEER	–	2.85~10.17	2.85~10.17	4.62~9.28	4.62~9.28	3.80~9.00
Seasonal space cooling efficiency (EN14825)	kW	5.52~8.51	5.52~8.51	4.91~8.38	4.91~8.38	4.80~7.80
SEER	–	7	7	7	7	7
Heating capacity (A35°C / ΔT=5°C)	kW	1.12~7.58	1.12~7.58	1.39~8.14	1.39~8.14	1.40~8.00
Heating capacity (A35°C / ΔT=8°C)	kW	1.67~8.85	1.67~8.85	2.01~9.14	2.01~9.14	1.70~7.80
Power input at nominal conditions	kW	2.70	2.90	3.20	3.20	3.50
Rated current	A	10.50	10.50	11.30	11.30	15.00
Power supply	–	220-240 V ~ / 50 Hz	220-240 V ~ / 50 Hz	220-240 V ~ / 50 Hz	220-240 V ~ / 50 Hz	220-240 V ~ / 50 Hz
Rated input power	kW	1.50	2.10	2.30	2.70	4.20
Compressor type	–	Rotary	Rotary	Rotary	Rotary	Rotary
Compressor quantity	–	1	1	1	1	1
Fan motor type	–	DC motor	DC motor	DC motor	DC motor	DC motor
Fan quantity	pcs.	2	2	2	2	4
Sound pressure level (at 1 m)	dB	48	48	51	51	51
Sound power level (EN 12102)	dB	58	58	61	61	61
Max. running current	A	19.0	19.0	26.00	26.00	26.90
Maximum water outlet temperature	°C	X4	X4	X4	X4	X4
Water side pressure drop	kPa	7	7	7	7	10
Water connection size	inch	1"	1"	1"	1"	1"
Operating ambient temperature range	°C	-30 to 45	-30 to 45	-30 to 45	-30 to 45	-30 to 45
Dimensions (L × W × H)	mm	1300 × 555 × 915	1300 × 555 × 915	1300 × 555 × 915	1300 × 555 × 915	1300 × 555 × 1335
Recommended clearance from wall (air side)	mm	300	300	300	300	300