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Website



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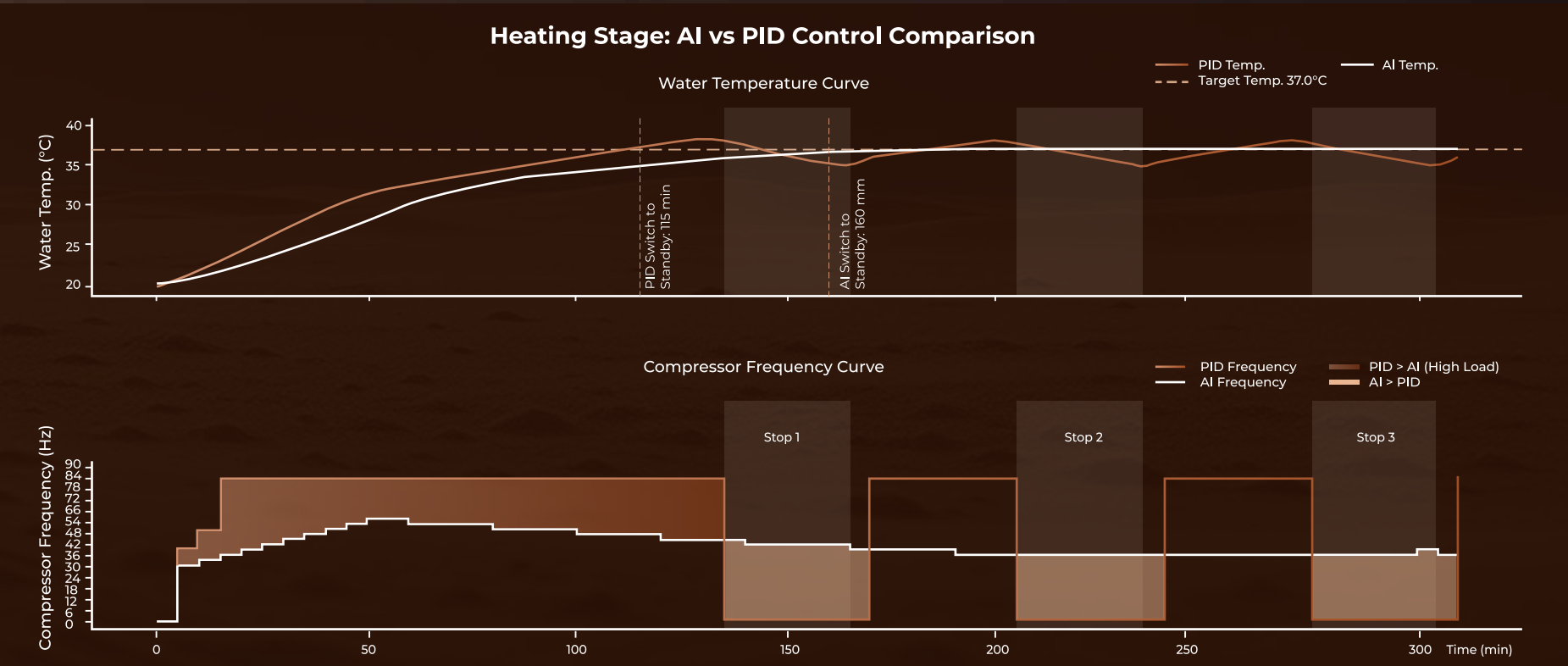
AI Intelligent Control System

**30%+
Energy Savings**

AI Energy Management

Built on millions of operating data points collected from more than 25,000 installed heat pumps, PHNIX AI continuously learns and optimizes system performance to deliver greater efficiency, enhanced comfort and lower operating costs.

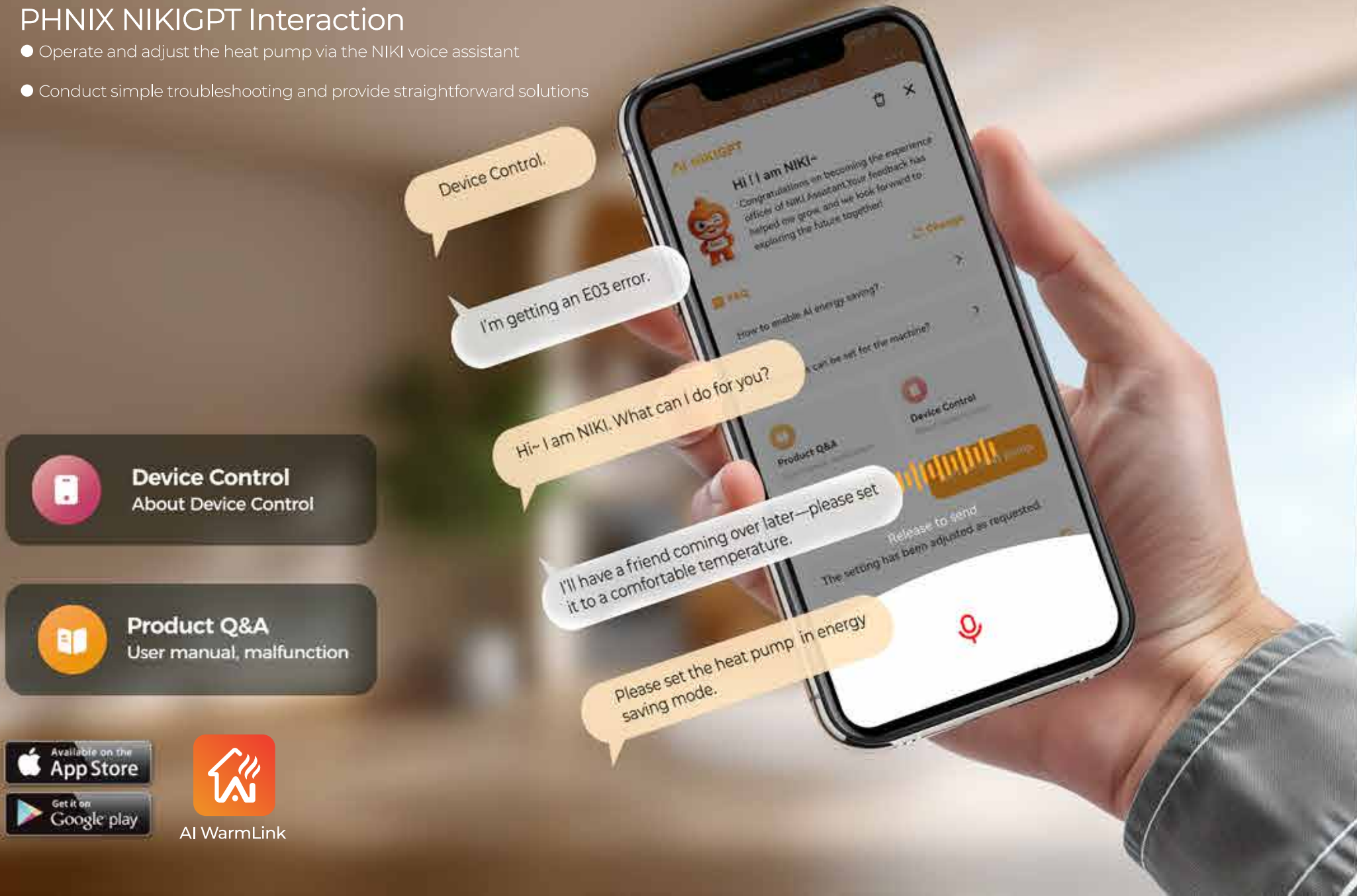
- **AI Adaptive Frequency Control:** Continuously adjusts compressor frequency according to heating demand, reducing unnecessary energy consumption while maintaining stable indoor comfort.
- **AI Predictive Valve Control:** Predicts the optimal electronic expansion valve position before operation begins, minimizing start-up losses and enabling faster high-efficiency operation.
- **Dynamic Grid Adaptation:** Automatically adapts operation according to dynamic electricity tariffs and renewable energy availability, reducing running costs while maintaining comfort.
- **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**
About Device Control

**Product Q&A**
User manual, malfunction

**AI WarmLink**

AI-driven Service Ecosystem

PHNIX AIOT Platform

- **AI Early Intervention for Failures:** Trained on massive operational datasets, the AI identifies potential system failures before they occur.
- **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.



**GoHeating Pro**

AI Smart Defrosting

PHNIX advanced AI algorithm monitors ambient temperature, humidity, and real-time system pressure to initiate defrosting only when absolutely required. By making the unit run much more smoothly, the AI algorithm eliminates unnecessary defrost cycles, reduces energy waste, and ensures stable operation even in freezing cold weather.



End-to-End Smart Ecosystem

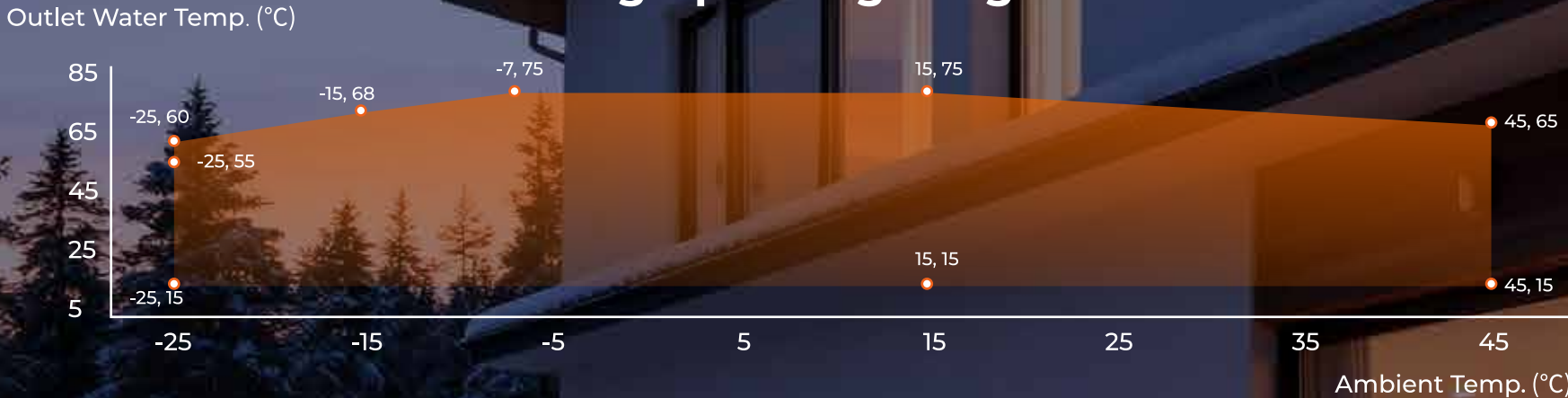


Eco-Friendly

Powered by R290 natural refrigerant (GWP=3, ODP=0), it fully complies with the strictest EU F-Gas regulations and the Kigali Amendment, ensuring zero phase-out risk and protecting our planet.



Heating Operating Range



75°C Max. Outlet Water Temp.

With the max. outlet water temperature up to 75°C, it maintains a constant 70°C outlet even at -15°C ambient temperature. It's a perfect 3-in-1 solution (Heating, Cooling, DHW) for house retrofits and outdated gas boilers replacement.

ErP A+++

With an ErP A+++ energy rating (35°C & 55°C) and a SCOP of up to 5.1, it boosts efficiency by 5%–15% compared to traditional inverter heat pumps. Cutting the carbon footprint and energy bills simultaneously.

SCOP 5.1

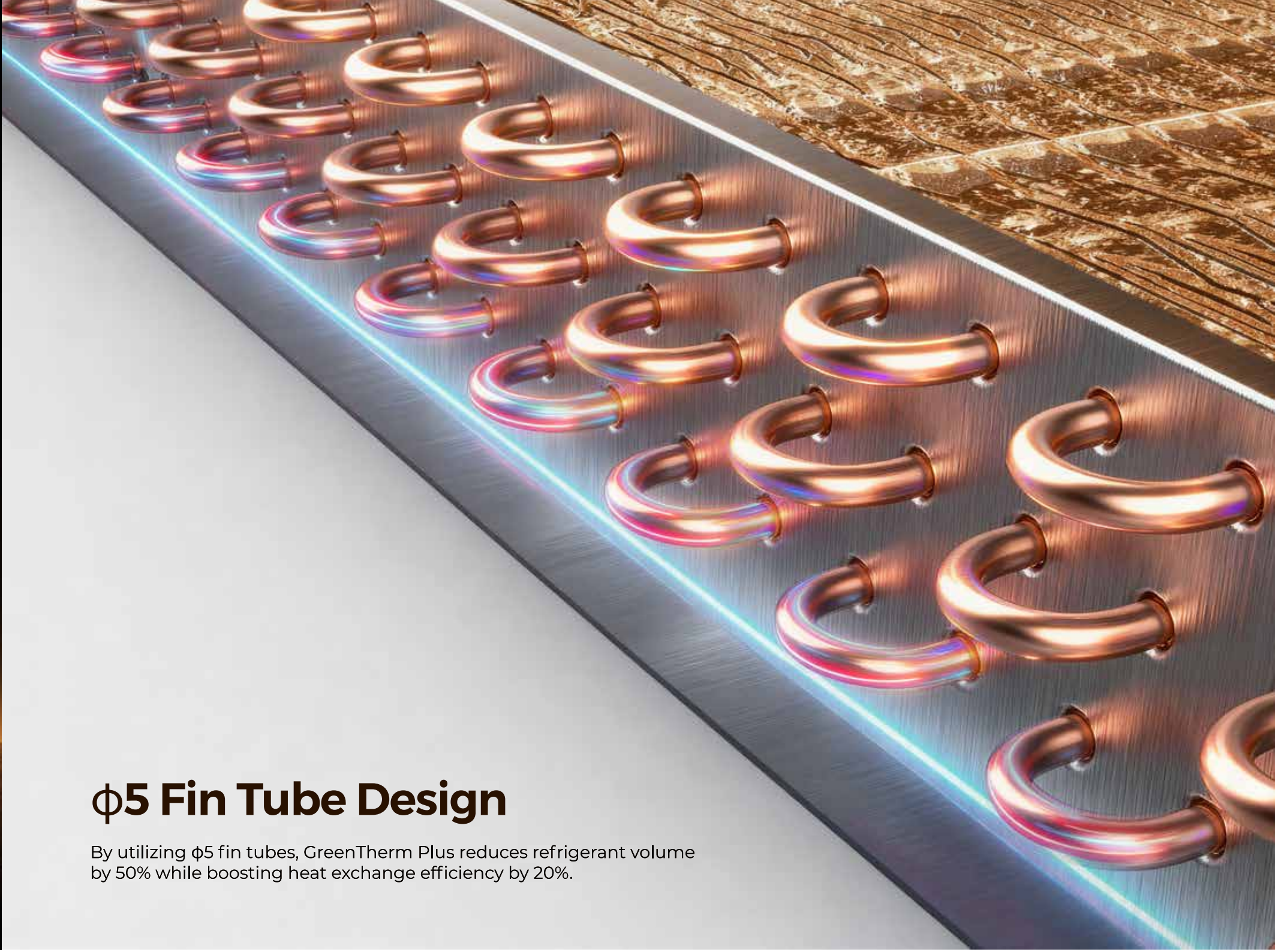
A+++@35°C



A+++@55°C

φ5 Fin Tube Design

By utilizing φ5 fin tubes, GreenTherm Plus reduces refrigerant volume by 50% while boosting heat exchange efficiency by 20%.



35dB(A) Silent Operation

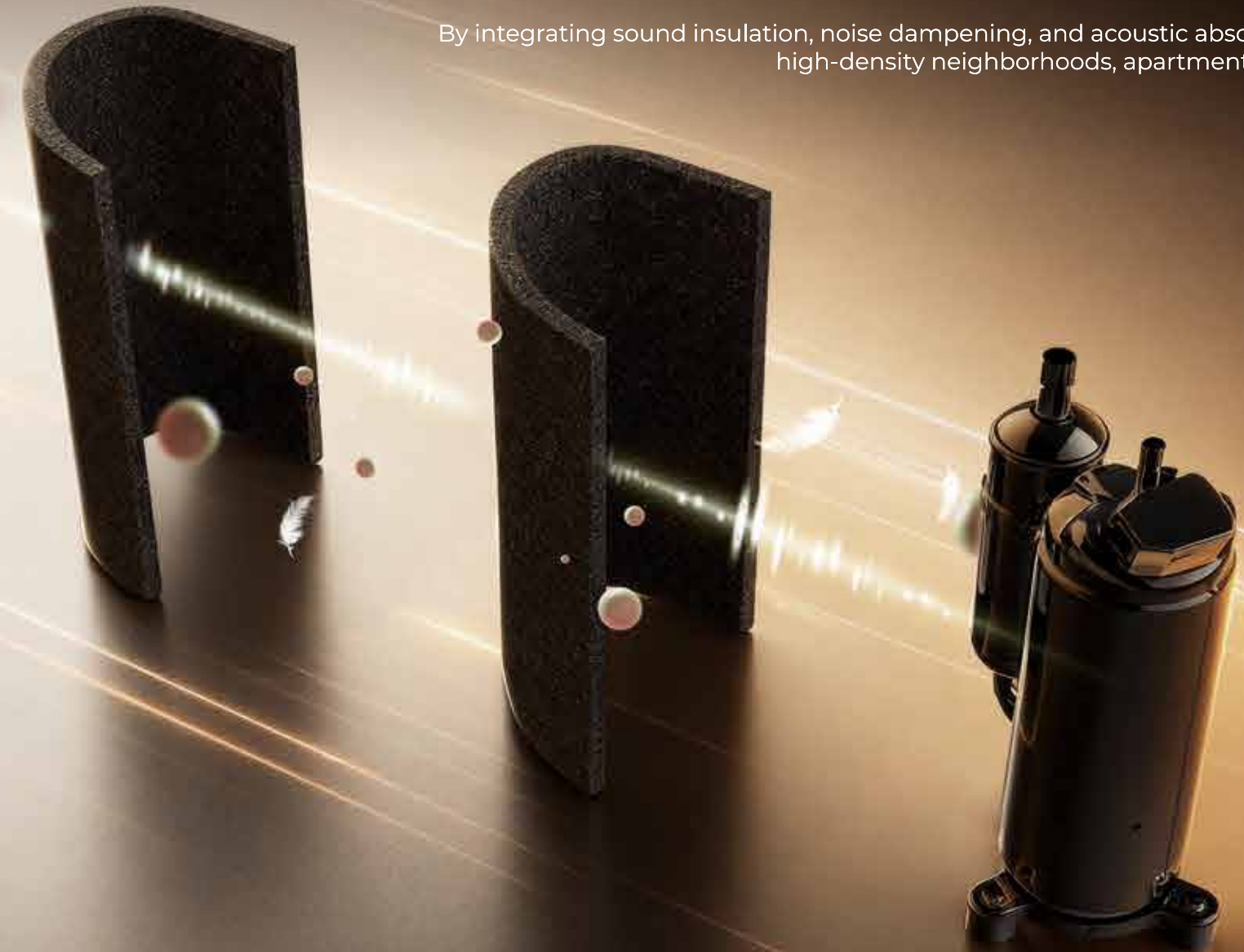
Engineered with advanced 6-layer noise reduction technology, the unit achieves a sound pressure level as low as 35dB(A) at 1 meter. Fully complying with the stringent German noise standards, it ensures ultimate tranquility for modern living.



Noise Reduction Technology

- Source Optimization: Equipped with a low-noise compressor to minimize operational sound right from the source.
- Vibration Isolation: Specially designed structured piping eliminates resonance and dampens compressor micro-vibrations.
- Acoustic Absorption: Utilizes high-density, multi-layer composite silencer cotton for maximum sound-proofing.

By integrating sound insulation, noise dampening, and acoustic absorption, it's ideal for high-density neighborhoods, apartments, and luxury villas.



Optimized Water Circuit Design

5kPa Lower on Water Resistance

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



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
- Water Pump



Built-in Safety

Equipped with a high-precision refrigerant leak detector (optional), potted PCB, micro-bubble air vent, and explosion-proof components, its all-dimensional safety shield fully complies with the most stringent European safety standards.



Exhaust Protection



Over Current Protection



Over Voltage Protection



Low Pressure Protection



High Pressure Protection



Low Ambient Temperature Protection



Low Water Flow Protection



Antifreeze Protection



High Water Temperature Protection

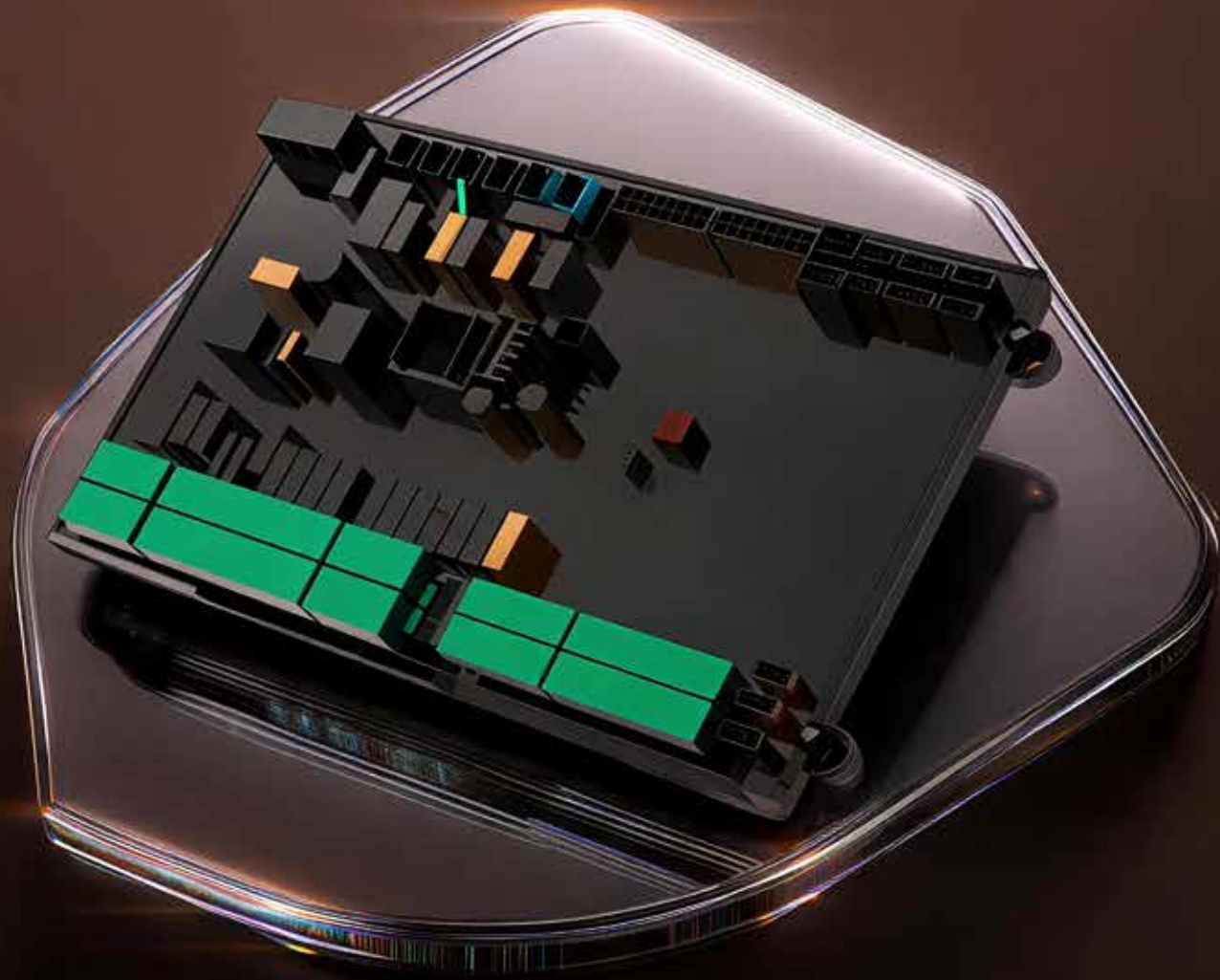
Gas Separator

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-Language Displays

Standard Display: Available in 13 languages.

English

Polish

German

Italian

Dutch

Spanish



Optional Display :
16-language support with integrated room temperature
& humidity sensors.

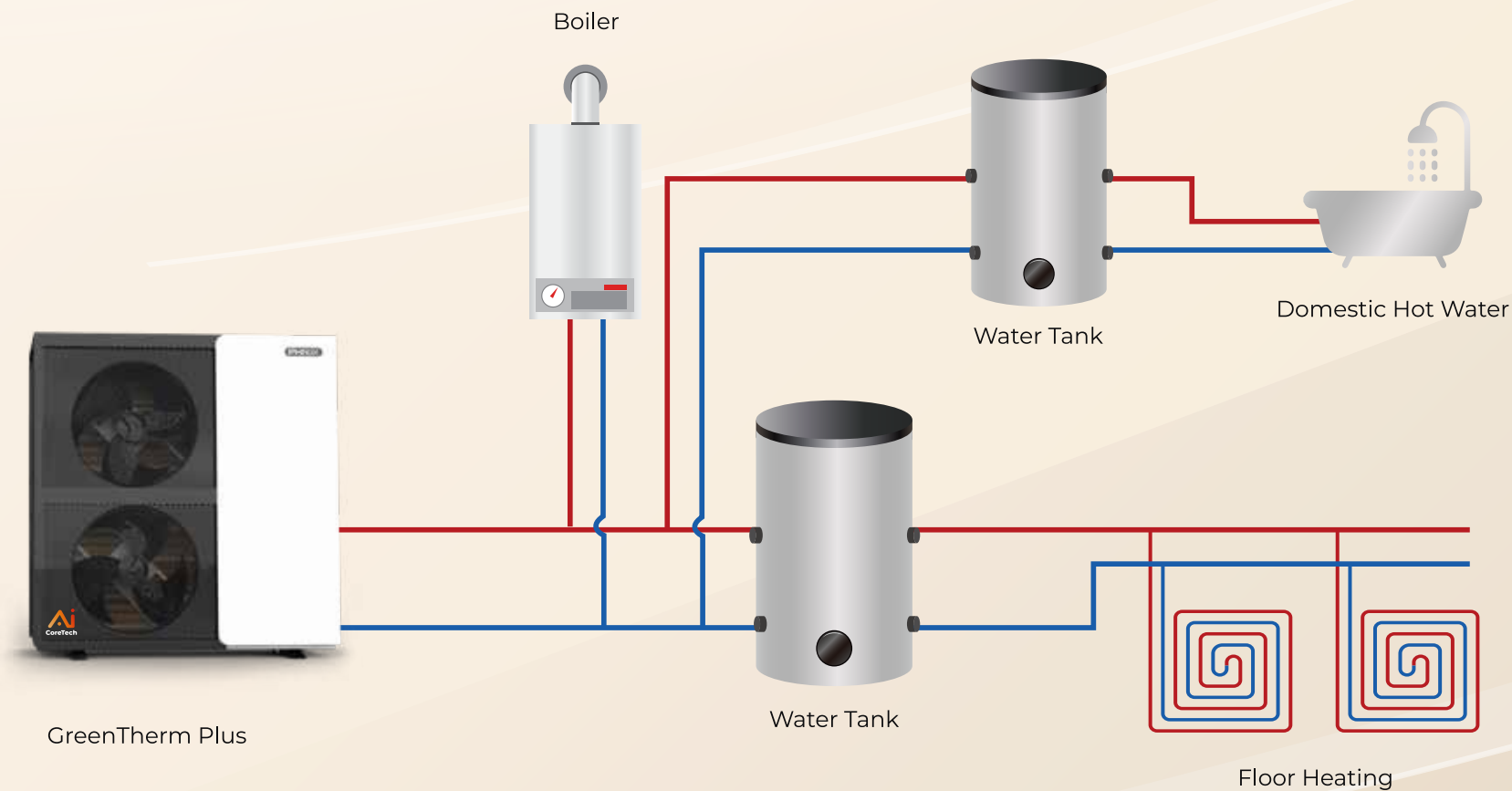
24°C

50%RH



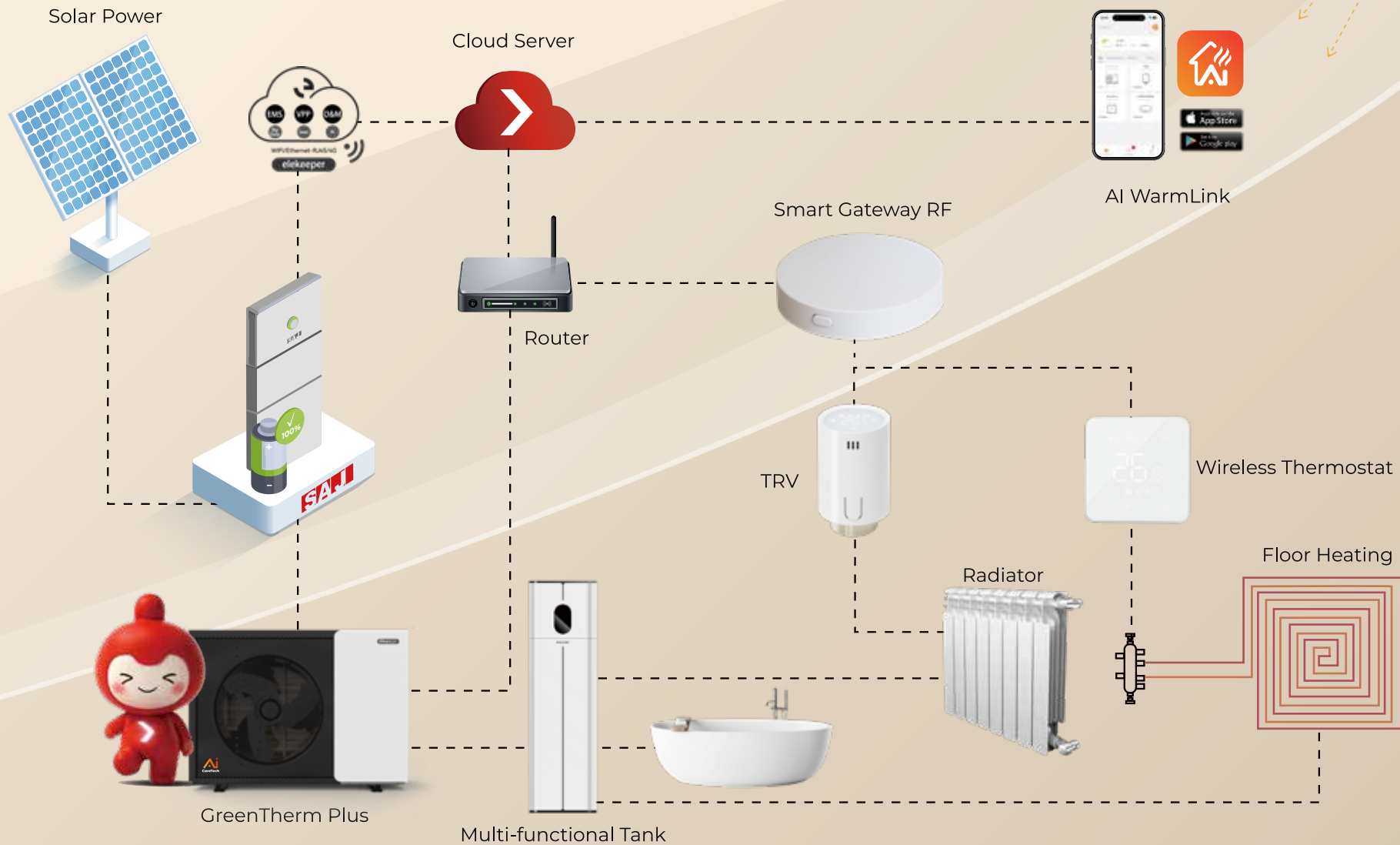
Hybrid Energy Synergy

Seamlessly integrating with solar PV and existing boilers, this hybrid solution intelligently balances the grid, solar energy, and fossil fuels. It maximizes efficiency and ensures uninterrupted warmth, while drastically cutting energy bills and carbon emissions.

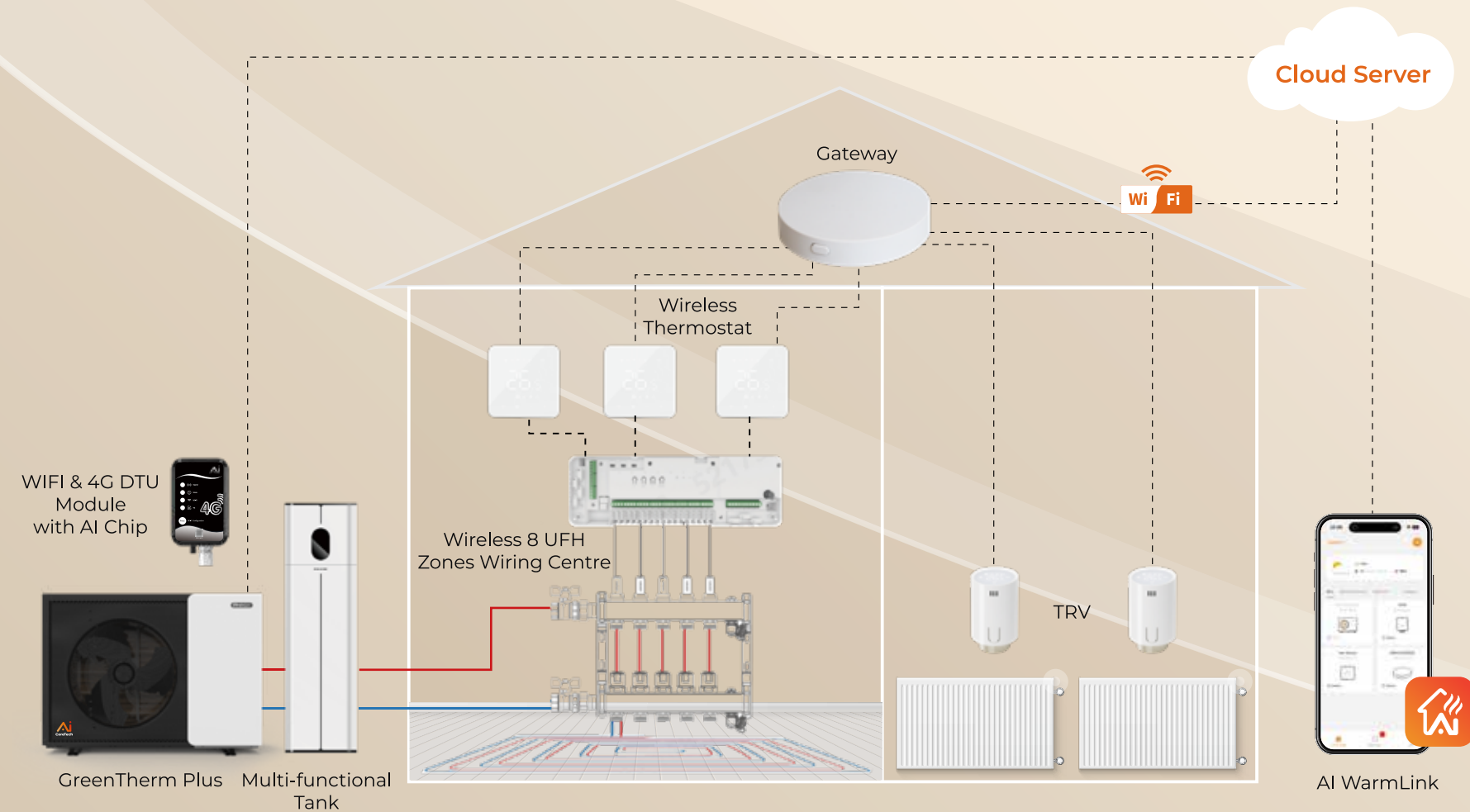


Comprehensive Smart Home Energy Solution

AI-driven Heat Pump + PV + Energy Storage



Wireless Temperature Controller Solution



Specification

Model		L15	L20	L30	L30S	L40	L40S	L50	L50S	L60	L60S	L80S
Power Supply	/	220-240V~/50Hz 220-240V~/50Hz 220-240V~/50Hz 380~415V/3N~/50Hz 220-240V~/50Hz 380~415V/3N~/50Hz 220-240V~/50Hz 380~415V/3N~/50Hz 220-240V~/50Hz 380~415V/3N~/50Hz 220-240V~/50Hz 380~415V/3N~/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	4	6	9	9	12	12	14	14	17	17	20
Heating Capacity Range	kW	1.40-6.00	1.40-7.07	4.5-12.0	4.5-12.0	4.5-16.0	4.5-16.0	4.5-17.5	4.5-17.5	4.6-20.0	4.6-20.0	6.7-23.6
Heating Power Input Range	kW	0.25-1.33	0.25-1.60	0.78-2.70	0.78-2.70	0.78-3.76	0.78-3.76	0.78-4.85	0.78-4.85	1.02-5.1	1.02-5.10	1.02-5.97
Heating Condition - Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 47/55°C												
Nominal Capacity	kW	4	5	9	9	10	10	12	12	15	15	18
Heating Capacity Range	kW	1.30-5.50	1.30-6.50	4.3-12.0	4.3-12.0	4.3-15.0	4.3-15.0	4.3-16.5	4.3-16.5	6.3-19.2	6.3-19.2	6.3-21.6
Heating Power Input Range	kW	0.36-1.72	0.36-2.13	1.2-3.93	1.2-3.93	1.2-5.26	1.2-5.26	1.2-6.00	1.2-6.00	2.1-6.37	2.1-6.37	2.1-7.63
Cooling Condition - Ambient Temp. (DB/WB): 35/24°C, Water Temp. (In/Out): 23/18°C												
Cooling Capacity Range	kW	1.34-6.40	1.34-6.80	3.2-12.0	3.2-12.0	3.2-13.0	3.2-13.0	3.2-14.0	3.2-14.0	4.96-15.0	4.96-15.0	4.96-16.0
Cooling Power Input Range	kW	0.33-2.06	0.33-2.19	0.8-3.90	0.8-3.90	0.8-4.46	0.8-4.46	0.8-5.6	0.8-5.6	1.24-5.01	1.24-5.01	1.24-6.28
Cooling Condition - Ambient Temp. (DB/WB): 35/24°C, Water Temp. (In/Out): 12/7°C												
Cooling Capacity Range	kW	1.04-4.98	1.04-5.29	3.0-9.0	3.0-9.0	3.0-10	3.0-10	3.0-11.0	3.0-11.0	3.42-12.0	3.42-12.0	3.42-13
Cooling Power Input Range	kW	0.34-1.73	0.34-1.84	1.0-3.15	1.0-3.15	1.0-3.86	1.0-3.86	1.0-4.78	1.0-4.78	1.14-4.50	1.14-4.50	1.14-5.42
Max. Power Input	kW	2.65	3	5.5	5.5	6.3	6.3	6.3	6.3	8.48	8.57	8.57
Max. Current Input	A	11.5	13	23.7	8.7	27	10	27	10	37	12	12
Refrigerant Type	/	R290										
Refrigerant Volume	kg	0.28	0.28	0.6	0.6	0.6	0.6	0.6	0.6	0.75	0.75	0.75
Sound Pressure (1m)	dB(A)	39	40	44	44	45	45	46	46	48	48	50
Sound Power Level (EN12102)	dB(A)	49	50	54	54	54	54	55	55	56	56	57
Net Weight	kg	66	66	105	107	105	107	105	107	137	139	139
Unit Dimension(L/W/H)	mm	1000×420×700	1000×420×700	1260×490×922	1260×490×922	1260×490×922	1260×490×922	1260×490×922	1260×490×922	1260×490×1335	1260×490×1335	1260×490×1335
Shipping Dimension(L/W/H)	mm	1040×420×845	1040×420×845	1300×495×1065	1300×495×1065	1300×495×1065	1300×495×1065	1300×495×1065	1300×495×1065	1300×495×1480	1300×495×1480	1300×495×1480
Circulation Pump	/	YES										
Operating Ambient Temperature	℃	-25~45										
Fan Motor Type	/	DC Fan Motor										
Water Connection	inch	1										
Rated Water Flow	m³/h	0.69	1.03	1.55	1.55	2.06	2.06	2.41	2.41	2.92	2.92	3.44
Water Pressure Drop @Rated Water Flow	kPa	10	15	25	25	35	35	40	40	53	53	73
Circulation Pump Head @Rated Water Flow	m	5	4.3	6	6	5.5	5.5	5	5	6	6	4
Cabinet Type	/	Sheet Metal										