



AMITIME ELECTRIC CO., LTD.

Zhongshan Factory:

Add: Yandong 5th Road, Dayan Industrial Zone, Huangpu Town, Zhongshan, Guangdong, China

Email: info@amitime.com

Foshan Factory:

Add: No. 6, Shilong West Road, Shilong Intensive Industrial Zone, Xintang Village, Lunjiao Subdistrict, Foshan, Guangdong, China

EuroHP Thermal Technologies Industry and Trade, Inc.

Turkey Factory:

Add: Ferhatpaşa Sb, Ortanca Sk No:20, 34540 Çatalca/İstanbul, Türkiye

Spanish Representative Office

Add: No. 35, La Hacienda, Calle Bajamar, Nerja, Spain

Stay Tuned with Us



LinkedIn
AMITIME



YouTube
Amitime Heat Pump



Facebook
Amitime Heat Pump



Instagram
Amitime Heat Pump



X
Amitime Heat Pump

Enterprise Certification

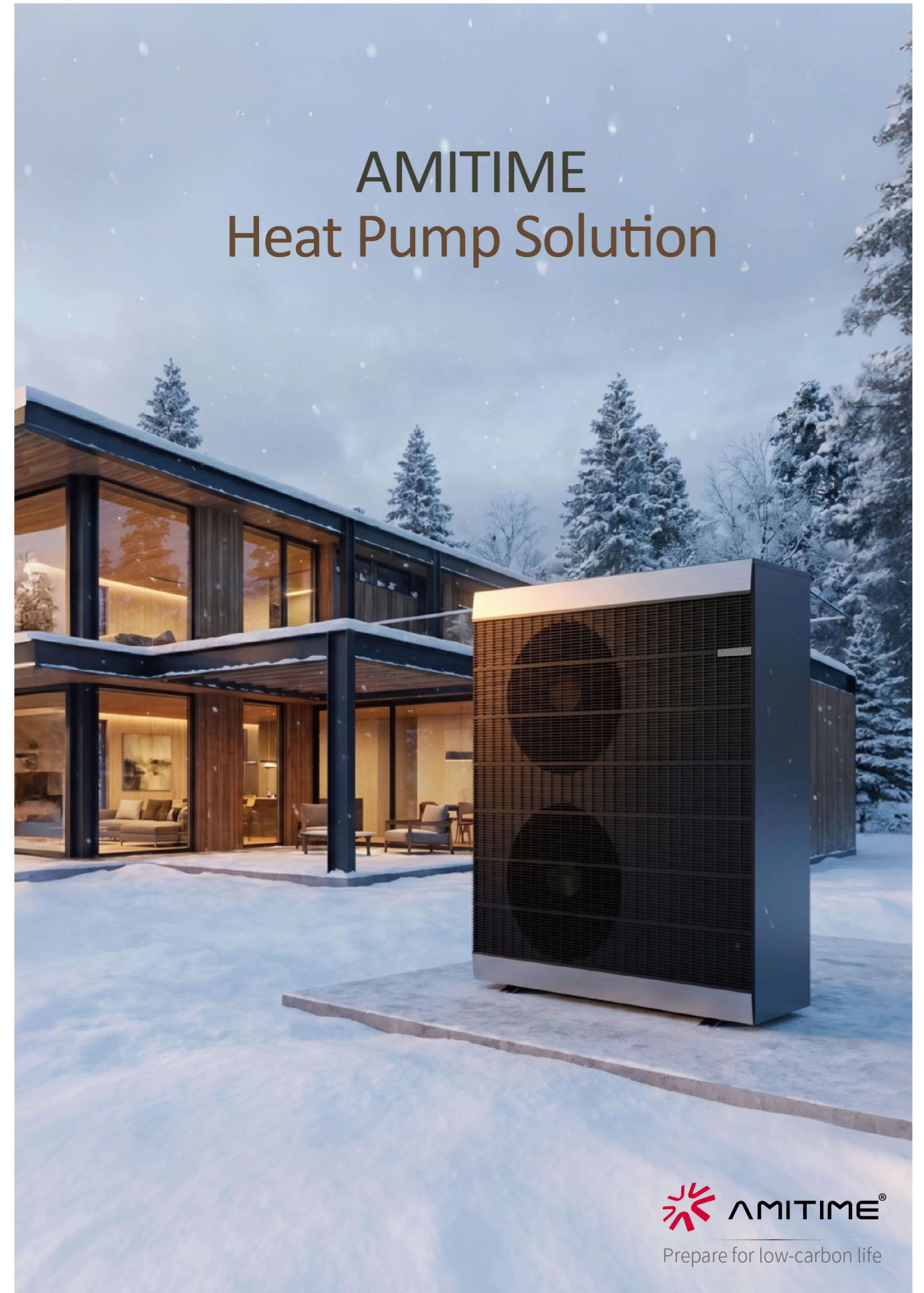


Heat Pump Catalog



Official Website

AMITIME Heat Pump Solution



Company Profile

AMITIME, established in 2003, is a professional Chinese manufacturer and a leading supplier of energy-saving heat pumps and cost-efficient solutions for the global market.

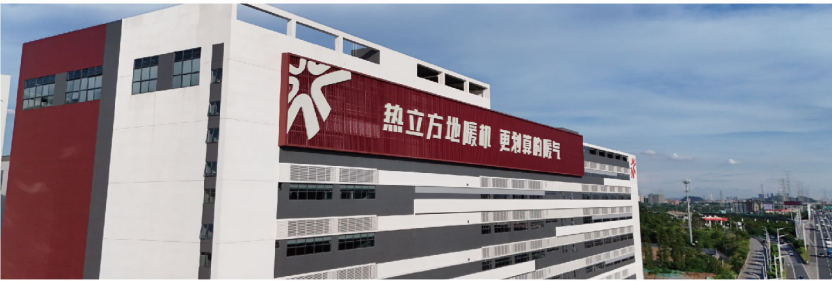
AMITIME has built an efficient and dynamic R&D and manufacturing platform, forming strategic partnerships with ES, Parker Davis, and other international heat pump and HVAC companies. With a global perspective, these collaborations have proven highly competitive and commercially successful, further solidifying our leading position in overseas markets.

With over 20 years of experience in R&D, 3 production bases, and well-equipped laboratories for performance, acoustic, and long-term operation testing, AMITIME has more than 800 employees, of which 20% are engineers and technicians. AMITIME specializes in DC inverter air-to-water heat pump technology. As a pioneer in DC inverter heat pump technology, we have developed four main product ranges, including residential heat pumps, swimming pool heat pumps, heat pump water heaters, and commercial heat pumps.

AMITIME is committed to meeting customer needs, and providing flexible and professional OEM/ODM solutions to global partners. Our mission is to deliver sustainable, efficient and reliable heat pump solutions, contributing to a more sustainable future.



Amitime Manufacturing Center in Zhongshan, Guangdong



Amitime Manufacturing Center in Foshan, Guangdong



Amitime Manufacturing Center in Turkey



MISSION

To contribute to the sustainable development of human society with the world's leading heat pump technology and applications.



VISION

To be an enterprise where all employees are happy both physically and mentally, and to be a world leader in the heat pump industry.



VALUES

Integrity, care, innovation, and striving.



Over 20 Years of Expertise

Established in 2003, Amitime has been at the forefront of the heat pump industry for over two decades.

Over
80
Countries



Uncompromising Quality

We are committed to delivering high-performance products and reliable service that meet stringent international standards.

Over
2,000
Partners



Driving Carbon Neutrality

We are committed to advancing green energy technologies and contributing to a more sustainable future.

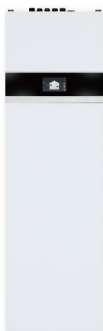
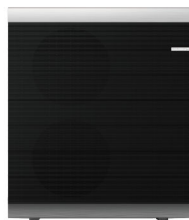
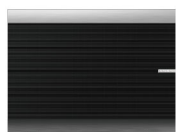
23
Years of Experience

Contents >>

Residential Heat Pump

EcoSTAR Pro Series Page 07





75°C
High water outlet temperature 75°C

-7°C
Full power till -7°C

A+++
With full inverter technology, it achieves A+++ energy efficiency with SCOP up to 5.62


14 layers of noise reduction for a whisper-quiet experience

Residential Heat Pump

EcoLITE Series Page 23





75°C
High water outlet temperature 75°C

A+++
With full inverter technology, it achieves A+++ energy efficiency with SCOP up to 5.19


Monoblock design for easier installation

Residential Heat Pump

HeatSTAR Series Page 29





58°C
Water temperature up to 58°C

-25°C
Minimum operating ambient temperature

Commercial Heat Pump

PowerSTAR+ Series Page 31



75°C

High water outlet temperature 75°C

-25°C

Minimum operating ambient temperature

Cascade

Up to 15 units in cascade, from 30 kW to 1200 kW

Heat Pump Water Heater

AquaSTAR Series Page 35



70°C

High water outlet temperature 70°

A+

A+ energy efficiency with COP up to 3.68 for lower operating costs

Water Source Space Cooler

Space Cooler Series Page 39



Engineered for seamless integration with heat pump systems



Ultimate comfort with windless airflow technology for draft-free cooling



Precision climate control for accurate temperature and humidity regulation

Fan Coil Unit

BM Series Page 45



130 mm

Compact design (~130 mm depth)



Low-noise operation

Swimming Pool Heat Pump

Libra Air FI Series Page 49



DC inverter

Enhanced energy efficiency

-20°C

Low ambient operation down to -7°C (default) / -20°C (optional)

Side-discharge

Flexible installation with compact design

Swimming Pool Heat Pump

Leo FI Series Page 50



DC inverter

Enhanced energy efficiency

-15°C

Low ambient operation down to -15°C

Top-discharge

High-capacity commercial design

Residential Heat Pump

EcoSTAR Pro Series

The EcoSTAR Pro series is a highly efficient air source heat pump that uses the eco-friendly R290 refrigerant. It provides reliable heating, cooling, and domestic hot water. The series offers flexible system configurations, supporting both standalone outdoor units and combinations with various indoor units to suit different installation needs. For those seeking an environmentally friendly, cost-effective, and complete home comfort solution, the EcoSTAR Pro is the answer.

R290
R290 ECO
refrigerant

A+++
A+++ energy
label

75°C
High water outlet
temperature 75°C

-7°C
Full power
till -7°C

Monoblock
Easier installation,
no refrigerant piping
connections required

Uncompromising Safety for Your Home

Your family's safety is our highest priority. The EcoStar Pro series is engineered to meet and exceed stringent EU regulations. Even in the unlikely event of a refrigerant-to-water heat exchanger leak, the multi-layered mechanical safety system helps prevent R290 refrigerant from entering the indoor environment, enhancing overall operational safety.

All safety components are purely mechanical, ensuring reliable protection even during power outages or electronic control system failures.



Pressure Relief Valve

A leak of refrigerant into the water loop can cause a rapid increase in pressure. Our high-precision pressure relief valve automatically opens at 2.5 bar to release this excess pressure, preventing a hazardous situation.



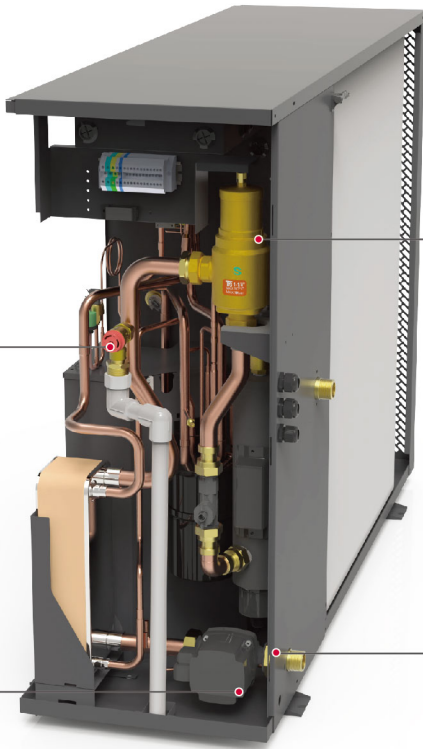
Gas Separator

This device is designed to automatically remove air and gas from the water system, including refrigerant gas in the unlikely event of a leak, helping prevent it from entering the indoor environment.



Check Valve

Strategically positioned on the return line of the outdoor unit, the check valve acts as a reliable physical barrier to help prevent reverse flow and keep refrigerant safely contained within the outdoor system.



Built-in Pump for Flexible and Efficient Operation

The EcoSTAR Pro outdoor unit features a built-in primary circulation pump for enhanced system flexibility and efficiency.

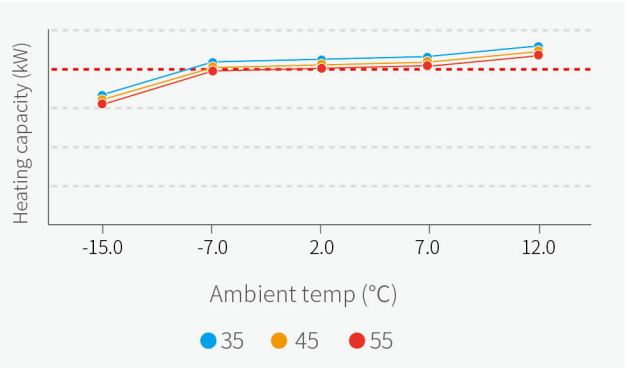


Primary Circulation Pump

This design simplifies installation and allows for cascade connection of up to 15 units.

Exceptional Performance in Extreme Conditions

Designed and tested for rigorous real-world scenarios and extreme conditions, EcoSTAR Pro ensures outstanding performance even at very low temperatures.



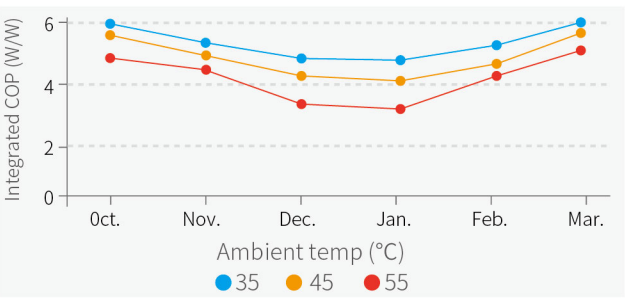
Integrated Solution for Total Home Comfort

EcoSTAR Pro offers an integrated solution capable of supporting dual-zone systems with multiple terminal units requiring different water temperatures, all while providing domestic hot water for complex application scenarios.



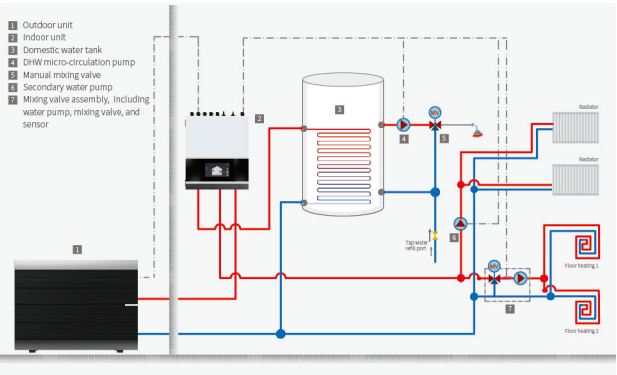
Industry-Leading Energy Efficiency

With a market-leading SCOP of up to 5.62, EcoSTAR Pro aligns with green energy trends, delivering significant cost savings for users.



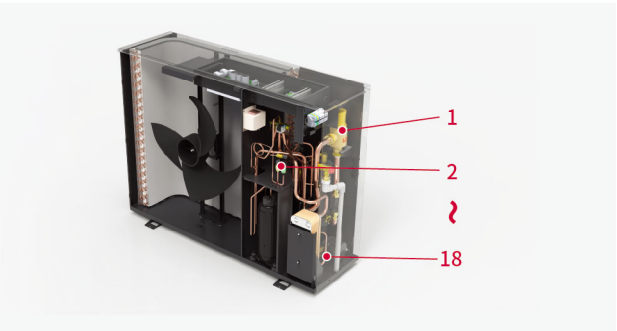
Intelligent Control for Cost Savings

Leveraging Amitime's unique real-time inverter control technology and steady-state operation design, EcoSTAR Pro dynamically adjusts its output based on system parameters and water temperature trends. Some installations can even eliminate the need for a buffer tank, significantly reducing initial investment costs.



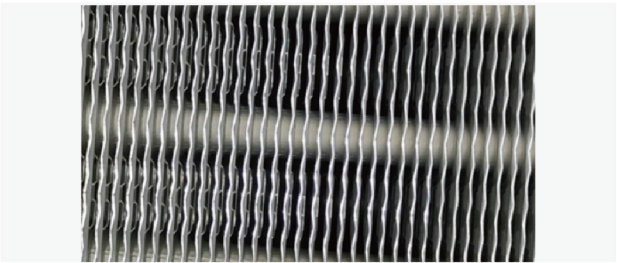
Precise Sensing for Stability and Reliability

Equipped with up to 18 high-precision sensors, EcoSTAR Pro continuously monitors the unit's operating status. Accurate sensing not only ensures real-time, on-demand adjustments but also forms a solid foundation for safe, stable, and reliable operation.



Innovative Fin Design for Enhanced Heat Exchange

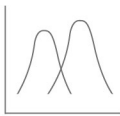
Amitime's pioneering evaporator fin ripple design optimizes airflow contact, increasing heat exchange efficiency by 30% within the same footprint for superior thermal performance.



Smart Control, Seamless Integration

The advanced 7" touchscreen controller is designed for intuitive operation and maximum flexibility. The high-definition display ensures a smooth user experience with vertical and horizontal installation support.

With a multilingual interface and intuitive functions, it enables easy system control. Built-in 4G and Wi-Fi connectivity provides cloud-based remote monitoring and extended functionality. It is compatible with common control systems and supports cascade control for larger installations.



Multi-circuit control

Support two mixing circuits with different water temperatures plus hot water control, adapting to various heating terminals



DHW storage

Timer and priority management for sanitary hot water, with anti-legionella function



ECO use for electric heater

Two-stage control and special logic to activate/stop electric heater, balancing comfort and energy saving



Real-time COP

Monitor power consumption, output, and COP in real time with clear energy efficiency data



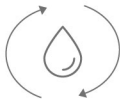
SG-Ready

Intelligently select the most cost-effective solution based on the signals provided by the power grid in peak and off-peak time



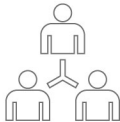
Unified interface: Effortless control

Both the touch control panel and the mobile app share the same interactive UI design, ensuring a minimal learning curve, fast response, and a seamless user experience



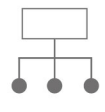
Smart defrosting

Sophisticated algorithms take into account ambient temperature, coil temperature and defrosting time



Cascade

One controller manages up to 15 units for flexible capacity expansion



Modbus

Easy integration with BMS for smart building systems

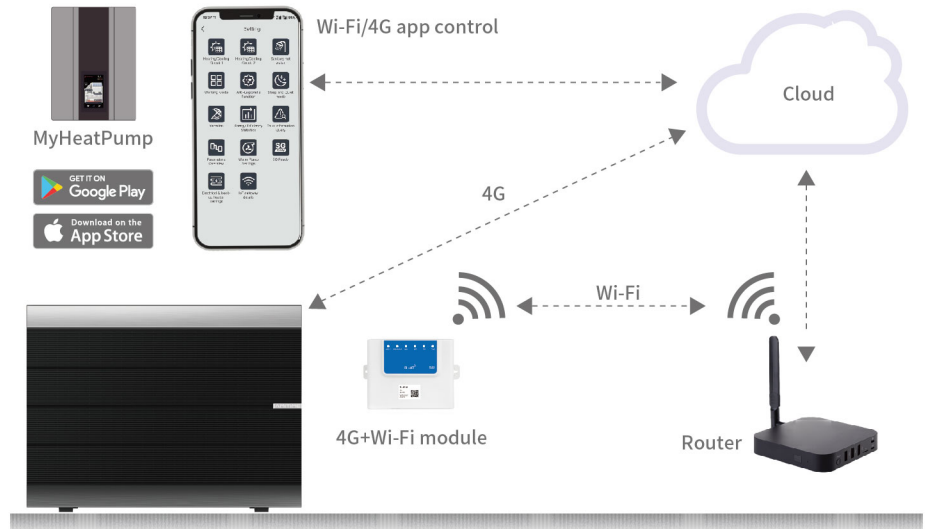
Flexible Connectivity: 4G & Wi-Fi Solutions

Our device offers dual connectivity with both 4G and Wi-Fi, allowing flexible connection options for different scenarios. The simple setup ensures quick and seamless pairing.

Regardless of location, the remote control function keeps you connected at all times. You can effortlessly monitor device operation in real time and ensure efficient performance wherever you are.

Simple operation for various functions

- On/Off control
- Operation mode selection
- Current temperature display
- Set temperature adjustment
- Energy monitoring



Connected Service, Elevated Support

Leverage advanced connectivity for smarter, more convenient after-sales service.

Save time and costs

- One-time visit with right parts
- No need for pre-visit for diagnosis

Quality service

- Better service to end-users with accurate diagnosis and fast repair

Increased business opportunities

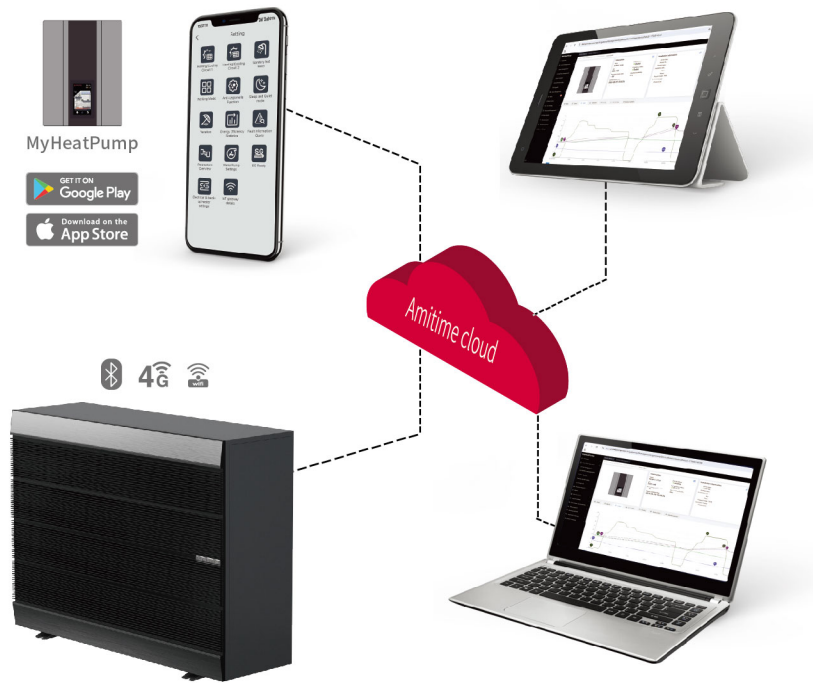
- Combine product and service offerings
- Strengthen the connection with users

Enjoy peace of mind

- Be serviced at once or faster
- Be confident that immediacy and quality service will be provided in case of an error

Less constraints

- No need to be at home for first diagnosis
- Monitor the operation status and control the system remotely



Amitime meticulously researches every noise source and pays close attention to every critical detail in our design process. We are committed to achieving ultimate quietness, providing you with a serene and enjoyable user environment.

Multi-layer noise reduction technology ensures outstanding quiet operation.

The Art of Silent Airflow

Low-Resistance, Wide-Fin Heat Exchanger

Reduces airflow resistance, thereby lowering fan noise.

Simulated Optimization

Eliminates internal air chamber vortices, reducing airflow noise.

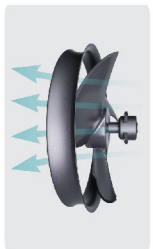


Anti-Resonance Motor Bracket (Reverse C-Type Design)

Follows airflow direction to minimize resonance.

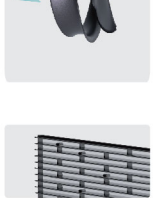
High-Efficiency Low-Noise DC Motor

Specifically tuned to suppress low-frequency noise for smooth operation.



Large-Diameter, Sharp-Edged Silent Fan Blades

These blades are designed with sharp edges to cut high-speed airflow efficiently. This action effectively reduces air resistance and creates smoother, more orderly airflow, thereby significantly lowering noise.



Streamlined Airflow Path Design

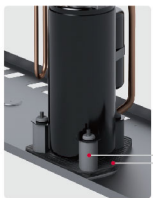
Precisely matches the guide ring bell mouth with fan blades for smooth air guidance.



Biomimetic Grille Design

Further optimizes airflow and reduces noise.

Low-Noise Compressor Operation



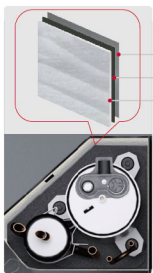
Vibration-Damping Rubber Feet

Further isolate vibration transmission and reduce structural noise.



Buffer Vibration-Damping Base

Effectively absorbs vibration generated during compressor startup and operation.



Soundproof Enclosure

A multi-layer noise reduction structure provides protection from external noise:
- High-Density Sheet Metal: Robust structure that suppresses noise leakage.
- Damping Adhesive (High-Density Butyl Rubber): Effectively absorbs and dissipates vibration energy.
- Polyester Fiber + PVC Composite Sound-Absorbing Material: Multi-layered sound absorption to block mid- to high-frequency noise.

EcoSTAR Pro Sound Pressure Level		at 1m	at 3m	at 5m
EcoSTAR Pro 06M	dB(A)	37	28	24
EcoSTAR Pro 08M	dB(A)	35	27	23
EcoSTAR Pro 12(T)M	dB(A)	36	28	24
EcoSTAR Pro 15(T)M	dB(A)	41	34	29
EcoSTAR Pro 20TM	dB(A)	49	43	39

Notes:

1. Noise values in the table are evaluated per EN 12102 (nominal A7/W55).
2. The picture below is an example for Model EcoSTAR Pro 08M.

Noise Sources: Fan and airflow

Noise in air chamber area: 52 dB(A)

Noise Source: Compressor

Noise inside the chamber: 70 dB(A)

Noise outside the chamber: 46 dB(A)



43 dB(A)

38 dB(A)

35 dB(A)
at 1m distance

27 dB(A)
at 3m distance

23 dB(A)
at 5m distance

Comprehensive Quiet Operation

Optimized Expansion Valve

Eliminates abnormal "whistling" sounds caused by refrigerant flow.

Pipework Vibration Damping Design

Optimizes pipe layout to reduce vibration transmission.

360° All-Round Vibration & Sound Absorption

The unit's interior is lined with polyester fiber + PVC material, providing comprehensive absorption and suppression of noise.



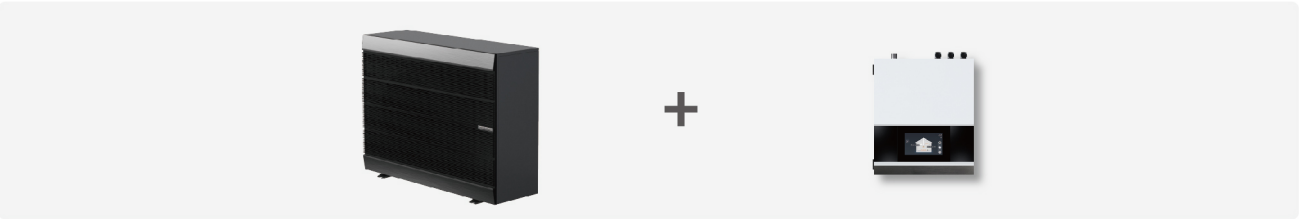
Smart Noise Reduction Mode

Users can select and activate an active noise reduction function via the controller for a more personalized quiet experience.

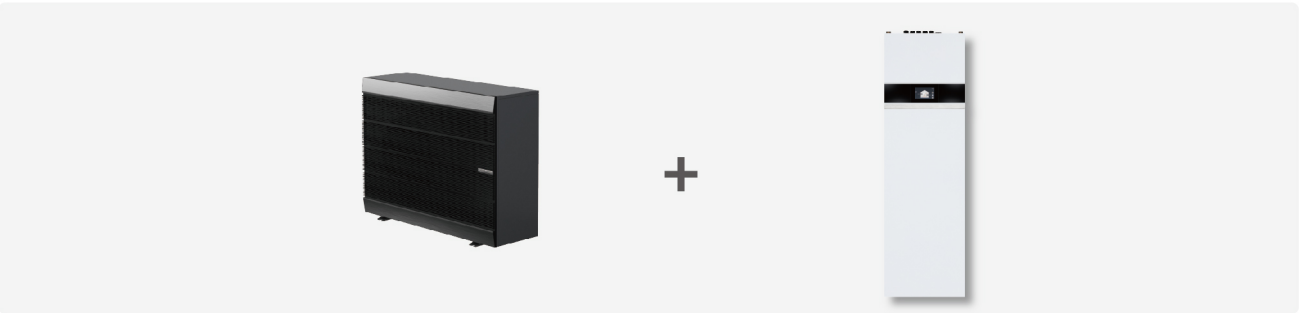
Flexible Configurations for Any Installation

The EcoSTAR Pro offers several configurations to meet the specific needs of any installation scenario.

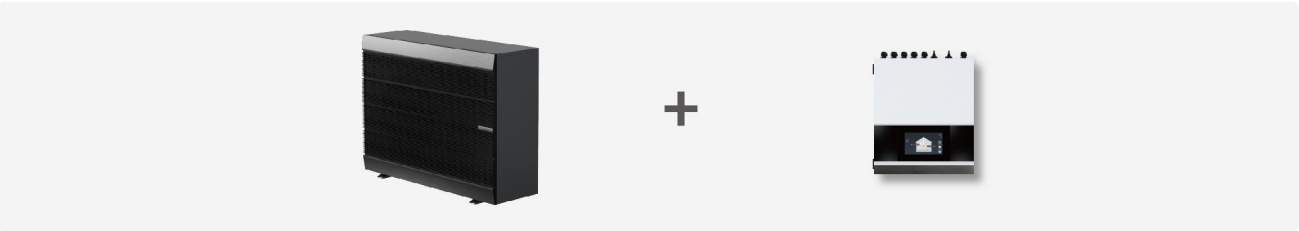
Installation with Hydro Box



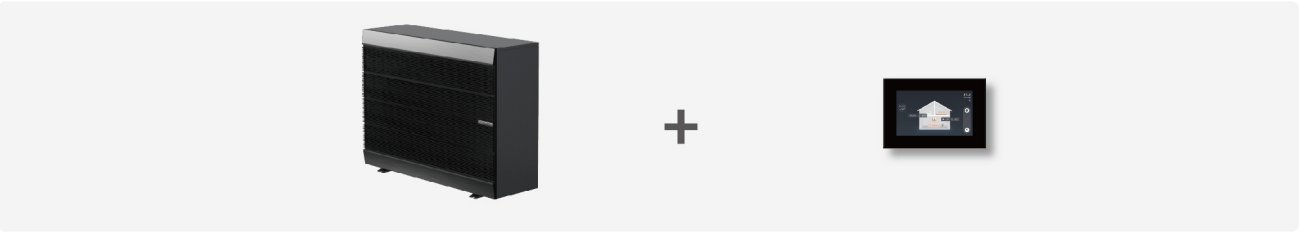
Installation with Indoor Unit with Tank



Installation with Control Box



Installation with Touch Control Panel



EcoSTAR Pro Series



Technical Data

Model				EcoSTAR Pro 06M(-FM)-O	EcoSTAR Pro 08M(-FM)-O	EcoSTAR Pro 12M(-FM)-O	EcoSTAR Pro 12TM(-FM)-O	EcoSTAR Pro 15M(-FM)-O	EcoSTAR Pro 15TM(-FM)-O	EcoSTAR Pro 20TM(-FM)-O	
Seasonal Energy (According to EN14825)											
ErP Data	Energy Class-Heating (35°C/55°C)		-	A+++/A+++							
	SCOP (35°C/55°C)		W/W	5.18/3.91	5.44/4.09	5.48/4.12	5.62/4.14	5.51/4.04	5.35/4.03	5.29/4.1	
	Rated Heat Output (Prated) (35°C/55°C)		kW	5.7/5.64	7.63/7.5	9.83/9.6	9.74/9.72	13.3/12	13.1/12.4	15.7/14.4	
	Seasonal Space Heating Efficiency (ηs) (35°C/55°C)		%	204/153	215/161	216/162	222/163	217/159	211/158	209/161	
	Annual Energy Consumption (35°C/55°C)		kWh	2275/2979	2896/3789	3706/4812	3579/4852	4974/6153	5082/6360	6111/7270	
	Sound Power Level		dB(A)	49	49	50	50	55	55	59	
Nominal Capacity and Nominal Input											
Nominal Heating	Heating Capacity Min./Max.		A7/W35	kW	2.17/6.43	2.9/9.6	3.7/12.2	3.7/12.2	5.3/15.9	5.3/15.9	5.9/19
	Heating Power Input Min./Max.			kW	0.44/1.22	0.55/1.9	0.67/2.46	0.67/2.46	0.97/3.24	0.97/3.24	1.19/4.35
	COP			W/W	4.99/5.28	5.21/5.05	5.63/4.95	5.63/4.95	5.49/4.9	5.49/4.9	4.94/4.37
	Heating Capacity Min./Max.		A7/W45	kW	1.91/6.1	2.7/9.2	3.5/11.6	3.5/11.6	4.9/15.2	4.9/15.2	5.5/18.3
	Heating Power Input Min./Max.			kW	0.59/1.46	0.69/2.38	0.83/2.94	0.83/2.94	1.22/3.8	1.22/3.8	1.44/5.15
	COP			W/W	3.25/4.18	3.86/3.87	4.04/3.94	4.04/3.94	4.02/4	4.02/4	3.84/3.54
Nominal Cooling	Cooling Capacity Min./Max.		A35/W18	kW	3.66/7.44	3.4/9	6.3/12.2	6.3/12.2	7.8/15.3	7.8/15.3	9.1/19.3
	Cooling Power Input Min./Max.			kW	0.66/1.83	0.81/2.46	1.16/2.95	1.16/2.95	1.57/4.12	1.57/4.12	1.8/5.32
	EER			W/W	5.54/4.07	4.17/3.67	5.38/4.12	5.38/4.12	4.97/3.7	4.97/3.7	5.04/3.63
	Cooling Capacity Min./Max.		A35/W7	kW	2.47/5.94	2.3/7	3.3/9.2	3.3/9.2	5.2/12.1	5.2/12.1	6.2/12.4
	Cooling Power Input Min./Max.			kW	0.68/1.75	0.88/2.34	1.19/2.78	1.19/2.78	1.65/3.79	1.65/3.79	1.85/4.06
	EER			W/W	3.65/3.39	2.59/2.99	2.8/3.32	2.8/3.32	3.18/3.19	3.18/3.19	3.33/3.05
General Information											
Electrical Data	Power Supply		V/Hz/Ph	220-240/50/1			380-415/50/3	220-240/50/1		380-415/50/3	
Operation Limits	Max. Current		A	13	17	22	9	32	13	16	
	Ambient Temperature Range		°C	-25~43							
	Water Temperature Range (Heating)		°C	75/20							
	Water Temperature Range (Cooling)		°C	25/7							
Components	Refrigerant	Type/Amount	-/kg	R290/0.85	R290/1.05	R290/1.2	R290/1.2	R290/1.75	R290/1.75	R290/1.9	
	Compressor	Type		Twin-Rotary							
	Fan	Quantity		1	1	1	1	2	2	2	
		Airflow	m³/h	2850	4200	5700	5700	6300	6300	6300	
		Rated Power	W	62	116	172	172	62*2	62*2	62*2	
Water Side	Heat Exchanger	Type		Plate Heat Exchanger							
	Piping Connection			G1"	G1"	G1"	G1"	G1-1/4"	G1-1/4"	G1-1/4"	
	Allowable Water Flow-Min./Rated/Max.		L/s	0.17/0.24/0.31	0.27/0.38/0.5	0.4/0.57/0.75		0.5/0.72/0.93		0.67/0.96/1.24	
Physical Specifications	Net Dimensions (L*D*H)	Outdoor Unit	mm	1165*400*740			1260*395*1030		1260*420*1525		1347*442*1458
	Net Weight	Outdoor Unit	kg	100	128	140	155	200	215	230	

Specifications are subject to change without prior notice. For the actual specifications, please refer to the label on the unit.



Installation with Hydro Box

The hydro box integrates the control panel, main electronics, hydraulic parts, and electric heater, greatly simplifying on-site installation.

Indoor Unit Structure

Front panel swings open like a door, fully exposing the hydraulic system, which provides sufficient space to work on any internal component and allows easy access to the control system. All connections from the controller are made via terminal blocks, simplifying wiring and troubleshooting.

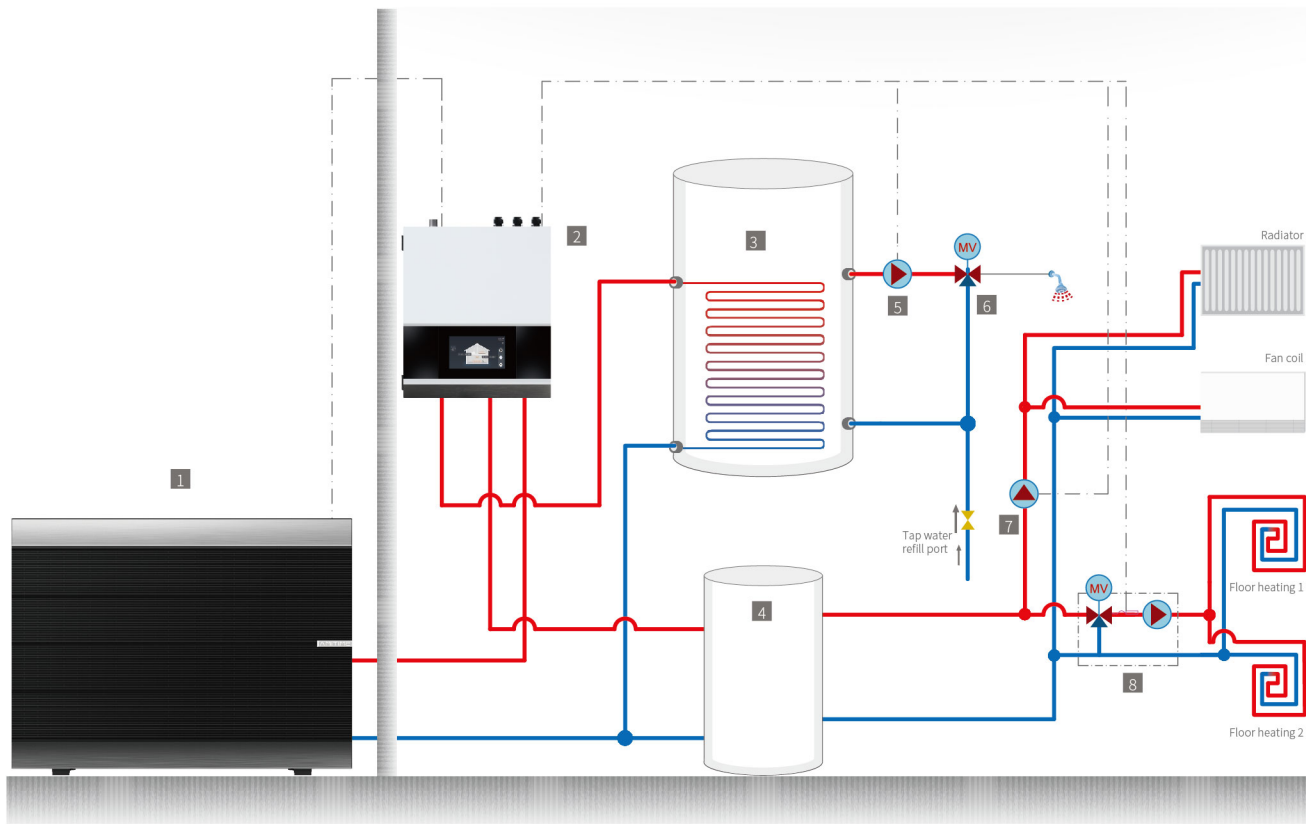


Technical Data

Hydro Box		EcoSTAR Pro 01-HB-I	EcoSTAR Pro 02-HB-I
Power Supply	/	220-240V, 50Hz	380-415V, 3N~, 50Hz
Water Temperature Range	°C	7-75	
Heat Pump Inlet Connection	inch	1	
Heat Pump Outlet Connection	inch	1	
Heating Outlet Connection	inch	1	
Safety Valve Connection	inch	1	
Max. Water Pressure	bar	3	
Water Pressure Drop*	kPa	22	
Electric Heater	kW	3	9
Sound Pressure at 1m	dB(A)	25	
Dual-Zone Control	/	Yes	
Net Weight	kg	32	
Gross Weight	kg	37	
Net Dimensions (L*D*H)	mm	550*260*650	
Package Dimensions (L*D*H)	mm	640*330*740	

* The test flow rate is 2 m³/h.

Application



- 1 Outdoor unit
- 2 Indoor unit
- 3 Domestic water tank
- 4 Buffer water tank
- 5 DHW micro-circulation pump
- 6 Manual mixing valve
- 7 Secondary water pump
- 8 Mixing valve assembly, including water pump, mixing valve, and sensor

Models

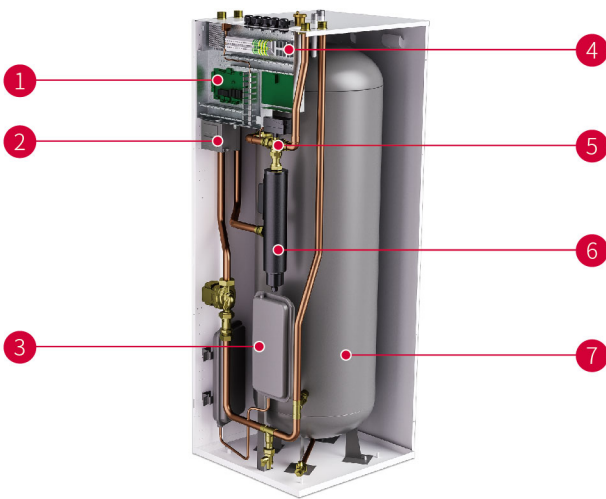
Capacity (kW)	Indoor Unit		Outdoor Unit	
6	EcoSTAR Pro 01-HB-I		EcoSTAR Pro 06M-O	
8			EcoSTAR Pro 08M-O	
12			EcoSTAR Pro 12(T)M-O	
15	EcoSTAR Pro 02-HB-I		EcoSTAR Pro 15(T)M-O	
20			EcoSTAR Pro 20TM-O	



Installation with Indoor Unit with Tank

An all-in-one solution that integrates all components and a domestic hot water tank for the easiest installation.

Components

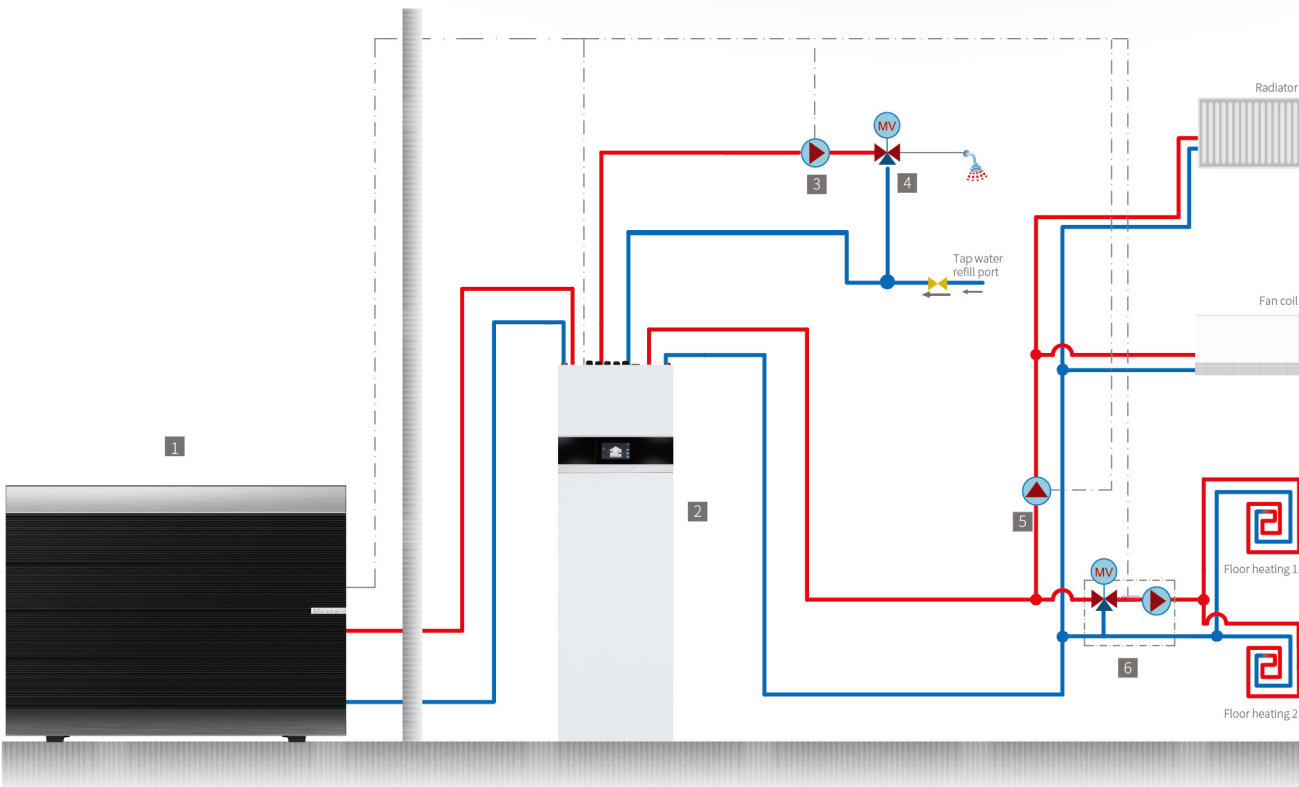


- 1 Electrical box
2 AC contactor
3 10L expansion tank
4 Digital thermostat
5 Three-way valve
6 Electric heater
7 250L DHW tank

Technical Data

All-in-One Indoor Unit		EcoSTAR Pro 01-AIO-I	EcoSTAR Pro 02-AIO-I
Power Supply	/	220-240V, 50Hz	380-415V, 3N~, 50Hz
Water Temperature Range	°C	7-75	
Heat Pump Inlet Connection	inch	1	
Heat Pump Outlet Connection	inch	1	
Heating Inlet Connection	inch	1	
Heating Outlet Connection	inch	1	
Domestic Hot Water Inlet Connection	inch	3/4	
Domestic Hot Water Outlet Connection	inch	1	
Drain Outlet Connection	inch	1/2	
Expansion Tank	L	10	
Hot Water Tank Capacity	L	250	
Max. Water Tank Pressure	bar	7	
Electric Heater	kW	3	9
Dual-Zone Control	/	Yes	
Net Weight	kg	111	
Gross Weight	kg	131	
Net Dimensions (L*D*H)	mm	600*710*1720	
Package Dimensions (L*D*H)	mm	640*755*1945	

Application



- 1 Outdoor unit
2 All-in-one indoor unit
3 DHW micro-circulation pump
4 Manual mixing valve
5 Secondary water pump
6 Mixing valve assembly, including water pump, mixing valve, and sensor

Models

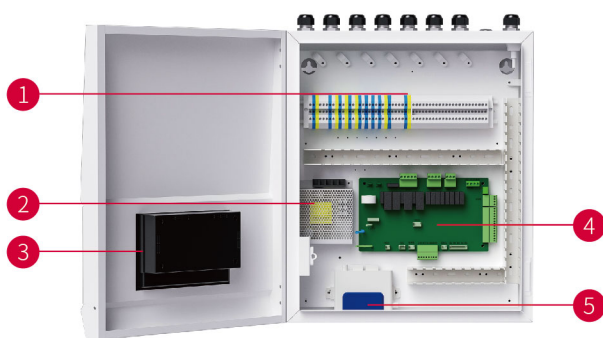
Capacity (kW)	Indoor Unit	Outdoor Unit
6	EcoSTAR Pro 01-AIO-I	EcoSTAR Pro 06M-O
8		EcoSTAR Pro 08M-O
12		EcoSTAR Pro 12(T)M-O
15	EcoSTAR Pro 02-AIO-I	EcoSTAR Pro 15(T)M-O
20		EcoSTAR Pro 20TM-O



Installation with Control Box

The control box includes the control panel and main electronics, making wiring simpler and faster.

Components



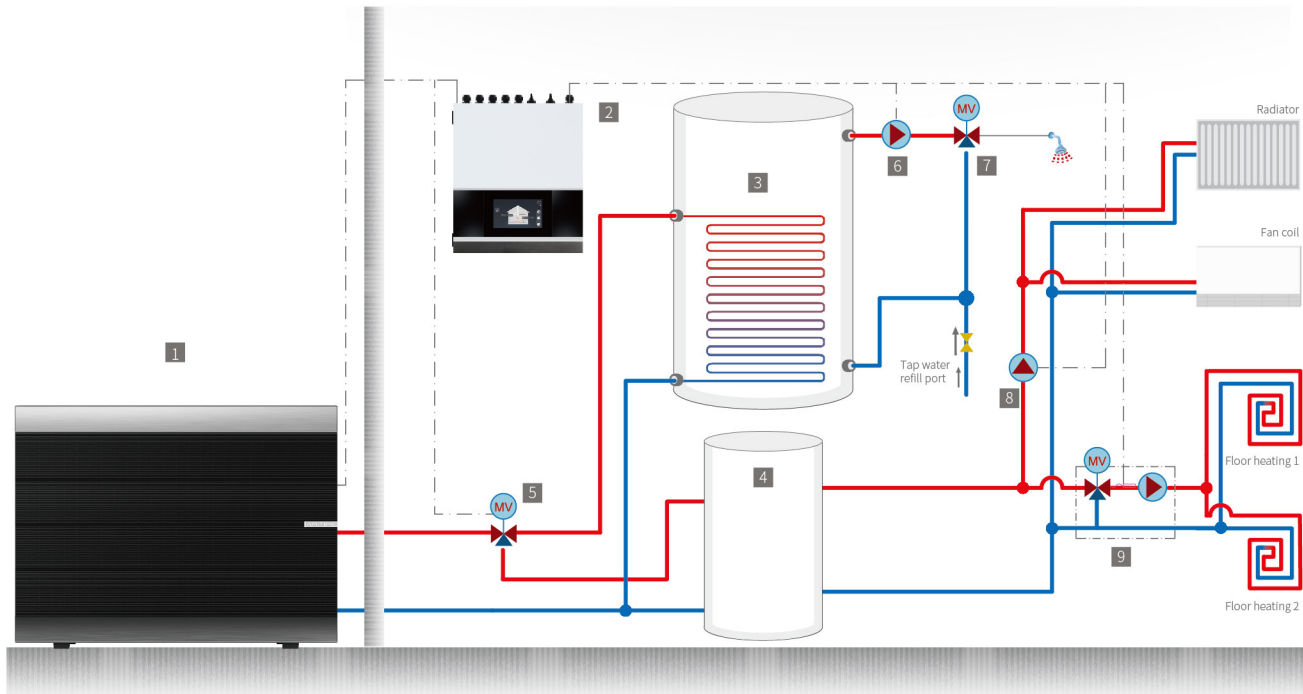
- 1 Wiring terminal
- 2 Switching power supply
- 3 Touch control panel
- 4 Main control board
- 5 4G & Wi-Fi module

Technical Data

Control Box		EcoSTAR Pro-CB-I
Power Supply	/	220-240V, 50Hz
Net Weight	kg	10
Gross Weight	kg	13
Net Dimensions (L*D*H)	mm	390*132*450
Package Dimensions (L*D*H)	mm	420*220*500



Application



- 1 Outdoor unit
- 2 Indoor unit
- 3 Domestic water tank
- 4 Buffer water tank
- 5 Three-way valve
- 6 DHW micro-circulation pump
- 7 Manual mixing valve
- 8 Secondary water pump
- 9 Mixing valve assembly, including water pump, mixing valve, and sensor

Models

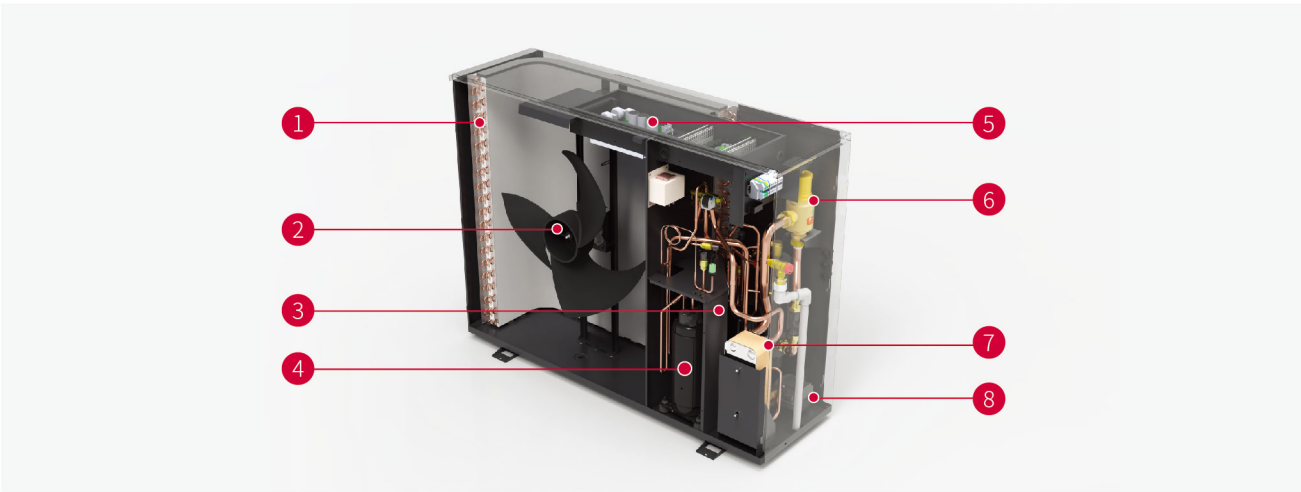
Capacity (kW)	Indoor Unit		Outdoor Unit	
6	EcoSTAR Pro-CB-I		EcoSTAR Pro 06M-O	
8			EcoSTAR Pro 08M-O	
12			EcoSTAR Pro 12(T)M-O	
15			EcoSTAR Pro 15(T)M-O	
20			EcoSTAR Pro 20TM-O	



Installation with Touch Control Panel

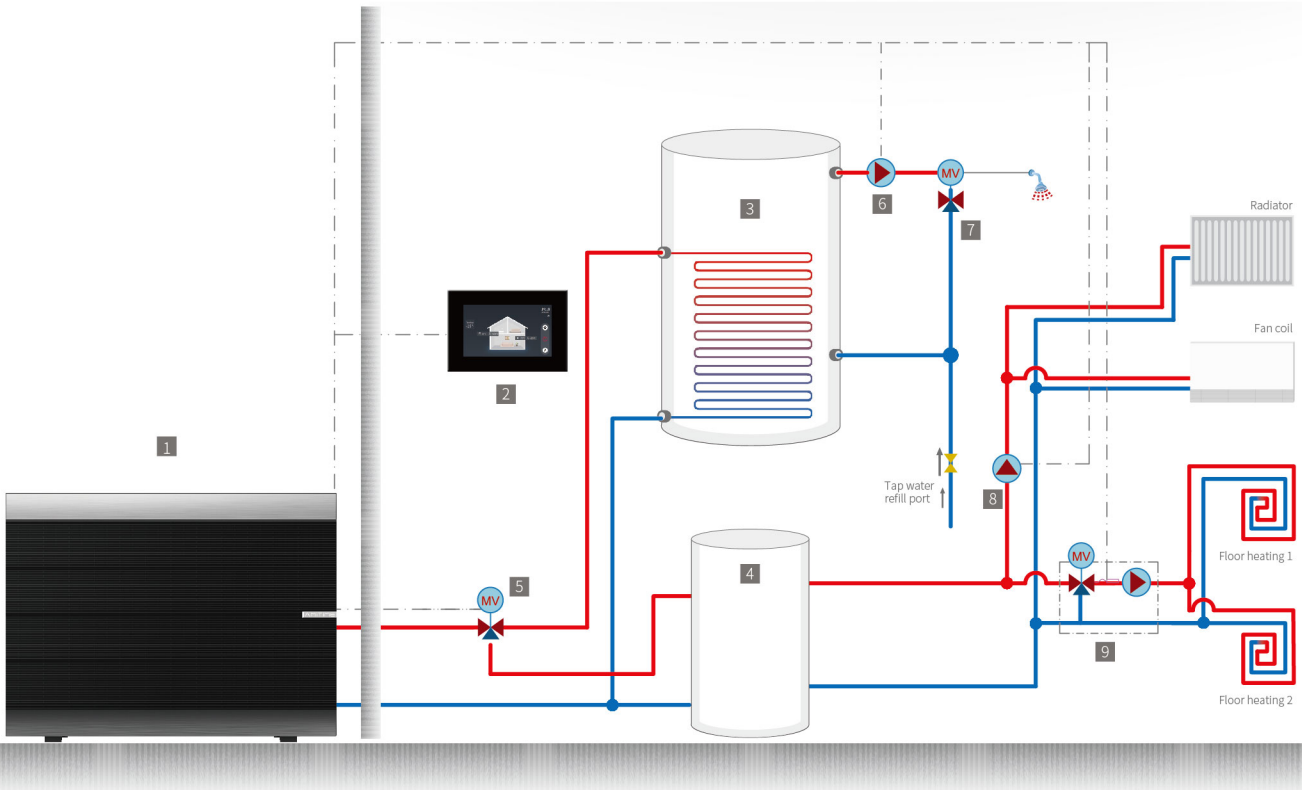
For maximum flexibility, you can purchase the outdoor unit and touch control panel, allowing installers to source other components based on the site's specific requirements.

Components



- 1 Evaporator
2 DC fan motor
3 Compressor sound shield
- 4 R290 twin-rotary compressor
5 Electrical box
6 Gas separator
- 7 Plate heat exchanger
8 Water pump

Application



- 1 Outdoor unit
2 Touch control panel
3 Domestic water tank
- 4 Buffer water tank
5 Three-way valve
6 DHW micro-circulation pump
- 7 Manual mixing valve
8 Secondary water pump
9 Mixing valve assembly, including water pump, mixing valve, and sensor

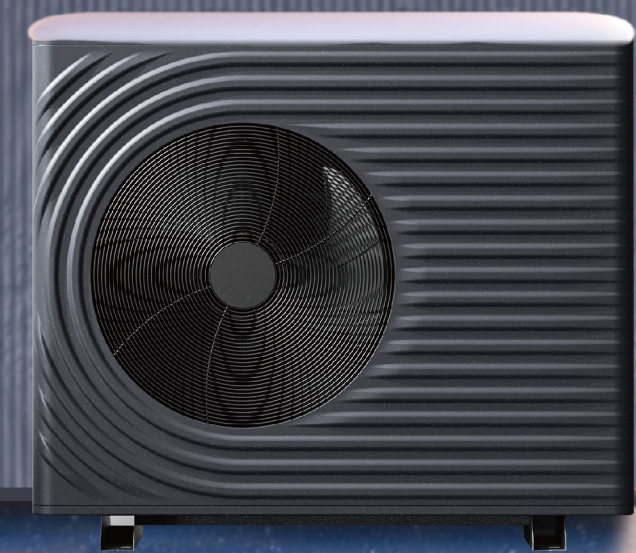
Models

Capacity (kW)	Outdoor Unit	Touch Control Panel
6	EcoSTAR Pro 06M-FM-O	
8	EcoSTAR Pro 08M-FM-O	
12	EcoSTAR Pro 12(T)M-FM-O	
15	EcoSTAR Pro 15(T)M-FM-O	
20	EcoSTAR Pro 20TM-FM-O	

Residential Heat Pump

EcoLITE Series

The EcoLITE is a highly cost-effective air-to-water heat pump with an outstanding A+++ energy efficiency rating at both 35°C and 55°C. It delivers energy savings, comfort, and easy installation, while providing comprehensive solutions for heating, cooling, and domestic hot water. With intuitive smart app features, users can connect remotely for device control and intelligent after-sales support, bringing exceptional convenience to everyday life.



R290 ECO
refrigerant



A+++ energy
label



High water outlet
temperature 75°C



Easier installation, no
refrigerant piping
connections required

Installation with Touch Control Panel



High-Quality Components, Exceptional Performance

The EcoLITE is built with premium components to ensure an efficient, reliable, and quiet heating experience.

High-Efficiency, Low-Resistance Evaporator

Our unique design maximizes heat exchange for superior energy efficiency.

Reliable Electronic Control

We use stable and durable electronic components to guarantee long-term, reliable operation.

Side-Mounted Terminal Block

A convenient design that allows for quick and easy wiring.



Large-Diameter, Low-Noise Fan

Optimized using CFD simulation to reduce air resistance and noise, providing you with a quieter home.

Smart Anti-Freeze Drip Tray

The built-in smart heating function prevents ice buildup, ensuring smooth drainage even in harsh winter conditions.

High-Quality Plate Heat Exchanger

Its compact size and high efficiency ensure stable and robust system performance.

Full DC Inverter Technology

Key system components are fully DC inverter-driven for high-efficiency performance throughout the year.

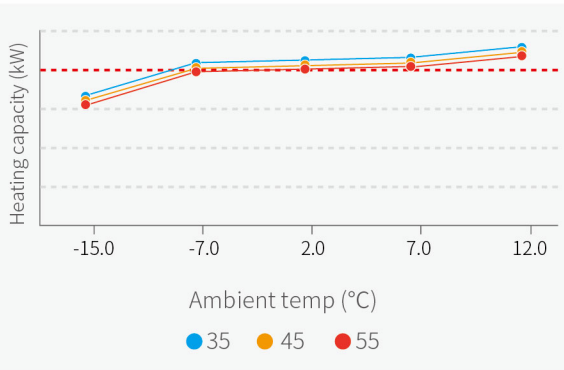
DC Inverter Compressor: Precisely adjusts heating output for maximum energy savings.

DC Inverter Fan Motor: Automatically adjusts speed based on operating conditions for quiet and efficient performance.

Built-in DC Inverter Pump: Simplifies installation and makes parallel unit connection easier.

Exceptional Performance in Extreme Conditions

Designed and tested for rigorous real-world scenarios and extreme conditions, EcoLITE ensures outstanding performance even at very low temperatures.



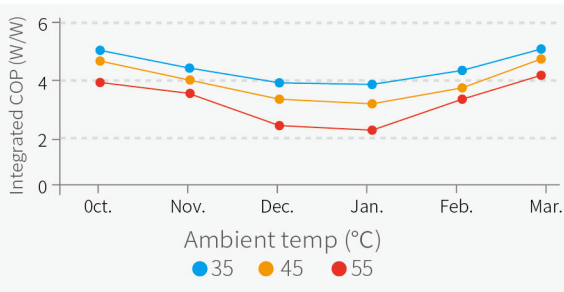
Integrated Solution for Total Home Comfort

EcoLITE offers an integrated solution capable of supporting dual-zone systems with multiple terminal units requiring different water temperatures, all while providing domestic hot water for complex application scenarios.



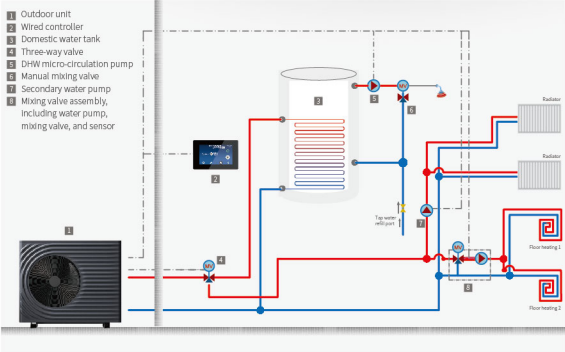
Industry-Leading Energy Efficiency

With a market-leading SCOP of up to 5.19, EcoLITE aligns with green energy trends, delivering significant cost savings for users.



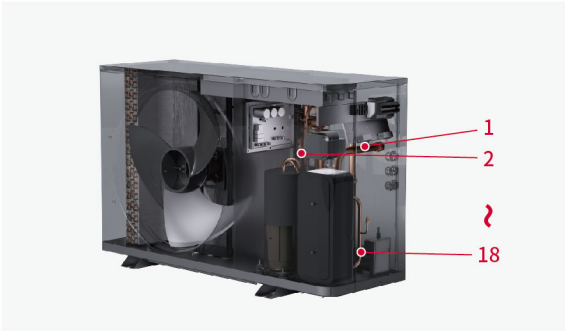
Intelligent Control for Cost Savings

Leveraging Amitime's unique real-time inverter control technology and steady-state operation design, EcoLITE dynamically adjusts its output based on system parameters and water temperature trends. Some installations can even eliminate the need for a buffer tank, significantly reducing initial investment costs.



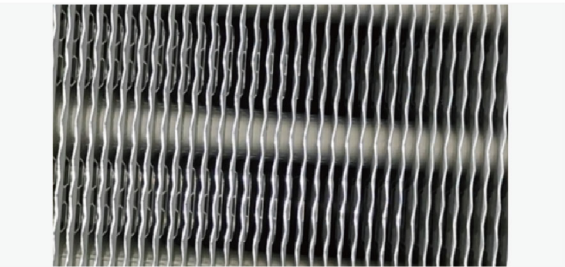
Precise Sensing for Stability and Reliability

Equipped with up to 18 high-precision sensors, EcoLITE continuously monitors the unit's operating status. Accurate sensing not only ensures real-time, on-demand adjustments but also forms a solid foundation for safe, stable, and reliable operation.



Innovative Fin Design for Enhanced Heat Exchange

Amitime's pioneering evaporator fin ripple design optimizes airflow contact, increasing heat exchange efficiency by 30% within the same footprint for superior thermal performance.



Amitime meticulously researches every noise source and pays close attention to every critical detail in our design process. We are committed to achieving ultimate quietness, providing you with a serene and enjoyable user environment.

Multi-layer noise reduction technology ensures outstanding quiet operation.

The Art of Silent Airflow

Low-Resistance, Wide-Fin Heat Exchanger

Reduces airflow resistance, thereby lowering fan noise.

Simulated Optimization

Eliminates internal air chamber vortices, reducing airflow noise.

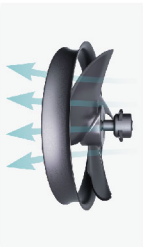


Anti-Resonance Motor Bracket (Reverse C-Type Design)

Follows airflow direction to minimize resonance.

High-Efficiency Low-Noise DC Motor

Specifically tuned to suppress low-frequency noise for smooth operation.



Large-Diameter, Sharp-Edged Silent Fan Blades

These blades are designed with sharp edges to cut high-speed airflow efficiently. This action effectively reduces air resistance and creates smoother, more orderly airflow, thereby significantly lowering noise.

Streamlined Airflow Path Design

Precisely matches the guide ring bell mouth with fan blades for smooth air guidance.



Biomimetic Grille Design

Further optimizes airflow and reduces noise.

Low-Noise Compressor Operation



Composite Acoustic Enclosure

Polyester fiber and butyl rubber composite material completely wraps the compressor, absorbing sound and damping vibration to effectively block full-spectrum noise from low to mid-high frequencies.

Vibration-Damping Rubber Feet

Further isolate vibration transmission and reduce structural noise.

EcoLITE Sound Pressure Level		at 1m	at 3m	at 5m
EcoLITE 08M	dB(A)	39	31	26
EcoLITE 12M	dB(A)	41	34	29
EcoLITE 15TM	dB(A)	42	35	30

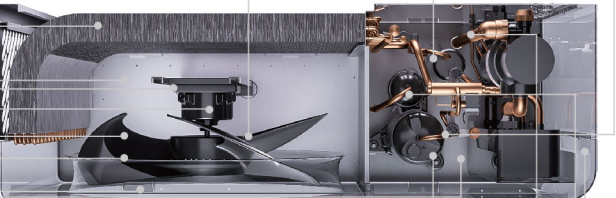
Notes:

- Noise values in the table are evaluated per EN 12102 (nominal A7/W55).
- The picture below is an example for Model EcoLITE 08M.

Noise Sources: **Fan and airflow**
Noise in air chamber area: 55 dB(A)

Noise Source: **Compressor**
Noise inside the chamber: 69 dB(A)

Noise near compressor: 51 dB(A)



Comprehensive Quiet Operation

Optimized Expansion Valve

Eliminates abnormal "whistling" sounds caused by refrigerant flow.

Pipework Vibration Damping Design

Optimizes pipe layout to reduce vibration transmission.

360° All-Round Vibration & Sound Absorption

The unit's interior is lined with polyester fiber + PVC material, providing comprehensive absorption and suppression of noise.



Smart Noise Reduction Mode

Users can select and activate an active noise reduction function via the controller for a more personalized quiet experience.

Smart Cloud Connectivity & Remote Monitoring

Leveraging its built-in Wi-Fi module, the EcoLITE's touchscreen controller easily connects to the cloud server. This enables users to remotely monitor the device via a dedicated app anytime, anywhere, offering unparalleled convenience and control.



Connected Service, Elevated Support

Leverage advanced connectivity for smarter, more convenient after-sales service.



EcoLITE Series



Technical Data

Model				EcoLITE 06M-FM	EcoLITE 08M-FM	EcoLITE 12M-FM	EcoLITE 15TM-FM
Seasonal Energy (According to EN14825)							
ErP Data	Energy Class-Heating (35°C/55°C)		-	A+++/A+++			
	SCOP (35°C/55°C)		W/W	4.81/3.85	5/3.93	5.19/4.05	5.05/3.93
	Rated Heat Output (Prated) (35°C/55°C)		kW	5/4	7/6	10/9	14/13
	Seasonal Space Heating Efficiency (ηs) (35°C/55°C)		%	189/150	197/154	205/159	199/154
	Annual Energy Consumption (35°C/55°C)		kWh	2120/2301	2892/3155	4030/4405	5560/6671
	Sound Power Level		dB(A)	50	52	52	56
Nominal Capacity and Nominal Input							
Nominal Heating	Heating Capacity Min./Max.	A7/W35	kW	2.1/6.2	2.6/9.39	2.7/11.7	4.5/15.5
	Heating Power Input Min./Max.		kW	0.43/1.37	0.5/1.97	0.56/2.85	0.84/3.35
	COP		W/W	4.97/4.57	5.05/4.76	4.72/4.1	5.36/4.62
	Heating Capacity Min./Max.	A7/W45	kW	1.8/5.8	1.7/9.06	2.5/11.2	3/14.8
	Heating Power Input Min./Max.		kW	0.53/1.59	0.65/2.33	0.69/3.34	1.12/3.93
	COP		W/W	3.49/3.68	2.57/3.88	3.62/3.36	2.66/3.77
Nominal Cooling	Cooling Capacity Min./Max.	A35/W18	kW	2.8/5.5	3.8/7.7	4.6/13.5	9.7/16.5
	Cooling Power Input Min./Max.		kW	0.53/1.33	0.67/1.84	0.8/3.13	1.75/3.95
	EER		W/W	5.39/4.11	5.66/4.16	5.68/4.3	5.54/4.18
	Cooling Capacity Min./Max.	A35/W7	kW	0.8/3.58	2.6/6.1	3/9.7	5.3/12.1
	Cooling Power Input Min./Max.		kW	0.53/1.24	0.68/1.76	0.98/3.04	1.42/3.83
	EER		W/W	1.54/2.89	3.73/3.47	3.05/3.2	3.75/3.17
General Information							
Electrical Data	Power Supply		V/Hz/Ph	220-240/50/1			380-415/50/3
Operation Limits	Ambient Temperature Range		°C	-25~43			
	Water Temperature Range (Heating)		°C	75/20			
	Water Temperature Range (Cooling)		°C	25/7			
Components	Refrigerant	Type/Amount	-/kg	R290/0.45	R290/0.85	R290/1	R290/1.4
	Compressor	Type		Twin-Rotary			
	Fan	Quantity		1			
		Airflow	m³/h	2850	3280	5000	6500
		Rated Power	W	62	85	200	350
Water Side	Heat Exchanger	Type		Plate Heat Exchanger			
	Piping Connection			G1"	G1"	G1"	G1-1/4"
	Allowable Water Flow-Min./Rated/Max.		L/s	0.2/0.27/0.37	0.26/0.39/0.46	0.34/0.57/0.68	0.5/0.72/0.86
Physical Specifications	Net Dimensions (L*D*H)	Outdoor Unit	mm	1010*370*700	1151*397*727	1204*480*971	1295*465*1035
	Net Weight	Outdoor Unit	kg	73	95	120	143

Specifications are subject to change without prior notice. For the actual specifications, please refer to the label on the unit.

Residential Heat Pump

HeatSTAR Series

Designed to meet different installation requirements, the HeatSTAR series is a proven heat pump platform offering flexible system configurations for heating, cooling, and domestic hot water applications. With various indoor unit options available, it provides a practical choice for a wide range of residential projects.



High energy efficiency

Water temperature up to 58°C

Flexible configurations to suit various installation needs

HeatSTAR Series



Technical Data

Model			HeatSTAR 06-O		HeatSTAR 09-O	HeatSTAR 12-O	HeatSTAR 15-O	HeatSTAR 19-O
Seasonal Energy (According to EN14825)								
ErP Data	Energy Class-Heating (35°C/55°C)		-	A+++/A++				
	SCOP (35°C/55°C)		W/W	4.58/3.4	4.61/3.32	4.6/3.36	4.7/3.24	4.7/3.28
	Rated Heat Output (Prated) (35°C/55°C)		kW	4/5	6/6	9/7	12/11	16/12
	Seasonal Space Heating Efficiency (ηs) (35°C/55°C)		%	180/133	181/130	181/132	185/127	185/128
	Annual Energy Consumption (35°C/55°C)		kWh	1865/2770	2864/3720	3944/4345	5096/7039	7117/7746
	Sound Power Level		dB(A)	54	54	54	61	62
Nominal Capacity and Nominal Input								
Nominal Heating	Heating Capacity Min./Max.	A7/W35	kW	2.86/7.45	3.52/9.22	4.49/11.67	6.02/15.35	9.19/18.5
	Heating Power Input Min./Max.		kW	0.62/1.65	0.73/2.06	0.9/2.68	1.42/3.38	1.92/4.23
	COP		W/W	4.62/4.51	4.84/4.48	4.98/4.35	4.23/4.59	4.79/4.38
	Heating Capacity Min./Max.	A7/W45	kW	2.64/6.8	3.16/8.68	3.85/11.25	5.32/14.26	8.51/18.22
	Heating Power Input Min./Max.		kW	0.77/1.98	0.93/2.51	1.15/3.26	1.58/4.09	2.33/5.08
	COP		W/W	3.41/3.44	3.4/3.46	3.35/3.45	3.37/3.54	3.65/3.58
Nominal Cooling	Cooling Capacity Min./Max.	A35/W18	kW	3.11/7.41	3.98/9.48	5.1/9.85	7.23/18.57	8.52/19.38
	Cooling Power Input Min./Max.		kW	0.63/1.81	0.79/2.2	1.31/2.51	1.42/5	1.85/6.35
	EER		W/W	4.95/4.1	5.02/4.31	3.89/3.92	5.09/3.71	4.6/3.05
	Cooling Capacity Min./Max.	A35/W7	kW	1.99/4.26	2.9/6.95	3.91/8.5	4.46/13	5.84/15.81
	Cooling Power Input Min./Max.		kW	0.61/1.69	0.92/2.32	1.35/3	1.22/4.32	1.33/5.47
	EER		W/W	3.26/2.52	3.15/2.99	2.91/2.83	3.65/3.03	4.4/2.89
General Information								
Electrical Data	Power Supply	V/Hz/Ph	220-240/50/1				380-415/50/3	
Operation Limits	Ambient Temperature Range		°C	-25~43				
	Water Temperature Range (Heating)		°C	58/20				
	Water Temperature Range (Cooling)		°C	20/7				
Components	Compressor	Type	Twin-Rotary					
		Quantity	1	1	1	2	2	
	Fan	Airflow	m³/h	2500	3150	3150	6200	7000
		Rated Power	W	34	45	45	90	120
Water Side	Heat Exchanger	Type	Plate Heat Exchanger					
	Piping Connection		G1"	G1"	G1"	G1-1/4"	G1-1/4"	
	Allowable Water Flow-Min./Rated/Max.		L/s	0.21/0.29/0.35	0.26/0.43/0.52	0.34/0.57/0.68	0.43/0.71/0.85	0.55/0.92/1.1
Refrigerant Split System: Different Parameters								
Refrigerant		Type/Amount	-/kg	R32/1	R32/1.6	R32/1.8	R32/2.6	R32/3
Physical	Net Dimensions (L*D*H)	Outdoor Unit	mm	1010*370*735	1210*455*875		1085*390*1450	
Specifications	Net Weight	Outdoor Unit	kg	63	75	79	110	120
Monoblock System: Different Parameters								
Refrigerant		Type/Amount	-/kg	R32/0.9	R32/1.4	R32/1.8	R32/2.55	R32/2.6
Physical	Net Dimensions (L*D*H)	Outdoor Unit	mm	1010*370*700	1165*370*845		1085*390*1450	
Specifications	Net Weight	Outdoor Unit	kg	65	78	85	120	130

Specifications are subject to change without prior notice. For the actual specifications, please refer to the label on the unit.

Commercial Heat Pump

PowerSTAR+ Series



PowerSTAR+ is designed for commercial and industrial applications requiring stable heating, cooling, and hot water supply. With flexible capacity combinations and an optimized cascade control system, the unit can adapt to various project requirements, including hotels, office buildings, factories, and other large-scale applications.

In addition to high performance and user comfort, safety and operational reliability are key considerations throughout the product design process. Equipped with an advanced safety control system, PowerSTAR+ ensures stable, efficient, and reliable operation under different working conditions.



Eco-friendly refrigerant
R290



High energy efficiency
A+++ (35°C/55°C)



Multi-functional
Heating, cooling and hot water in one system



Flexible cascade
Up to 15 units

Models

Phase	Capacity (kW)	Outdoor Unit
Three	30	PowerSTAR+ 30TM 
	40	PowerSTAR+ 40TM 
	80	PowerSTAR+ 80TM 

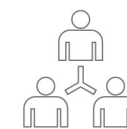
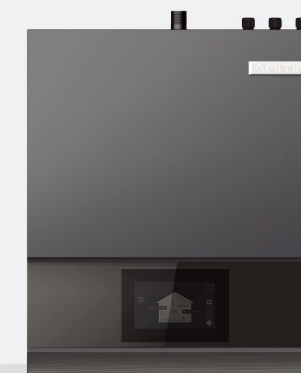
Smart Touch Control Box

The smart touch control box features a responsive color touchscreen with an intuitive interface, allowing both end-users and installers to get started quickly.

Beyond simplifying field wiring, it serves as an intelligent central controller in multi-unit cascade systems. It automatically coordinates the operating status of each unit to ensure optimal system efficiency and energy performance. At the same time, it balances operating time across all units through automatic rotation, extending the overall system service life and improving reliability.



7" touchscreen panel



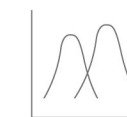
Cascade

Up to 15 units can be connected in parallel and managed by a single controller to meet diverse project capacity requirements



Smart heating curve

Automatically adjust water supply temperature based on ambient temperature to ensure stable heating



Multi-circuit control

Support two mixing circuits with different water temperatures plus hot water control, adapting to various heating terminals



Modbus

Easy integration with BMS for smart building systems



Run in rotation

In parallel systems, units automatically rotate operation to equalize runtime and service life among all units



Emergency backup operation

If any unit fails (including the master) in a parallel system, remaining units continue operation



Remote service

Both Wi-Fi and 4G connectivity enable remote control and maintenance

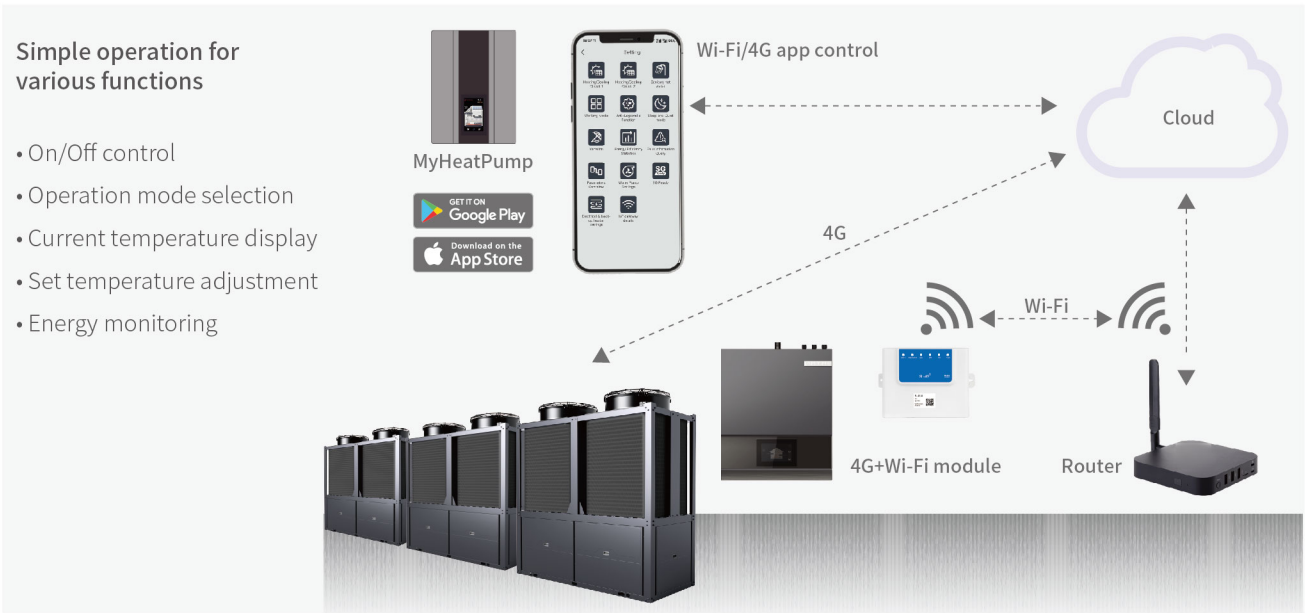


Smart defrosting

Sophisticated algorithms take into account ambient temperature, coil temperature and defrosting time

Smart Cloud Connectivity & Remote Monitoring

Built-in Wi-Fi and 4G connectivity in the control box enables seamless cloud-based remote monitoring and control via a dedicated app.



Connected Service, Elevated Support

Leverage advanced connectivity for smarter, more convenient after-sales service.



PowerSTAR+ Series



Technical Data

Model				PowerSTAR+ 30TM	PowerSTAR+ 40TM	PowerSTAR+ 80TM
Seasonal Energy (According to EN14825)						
ErP Data	Energy Class-Heating (35°C/55°C)		-	A+++/A+++	A+++/A++	A+++/A+++
	SCOP (35°C/55°C)		W/W	5.22/4.04	4.86/3.72	5.03/3.95
	Rated Heat Output (Prated) (35°C/55°C)		kW	29/29	28.6/28.1	59/58
	Seasonal Space Heating Efficiency (ηs) (35°C/55°C)		%	206/159	192/146	198/155
	Annual Energy Consumption (35°C/55°C)		kWh	11470/14923	12166/15641	24232/30496
	Sound Power Level (Indoor/Outdoor)		dB(A)	--/55	--/62	--/69
Nominal Capacity and Nominal Input						
Nominal Heating	Heating Capacity Min./Max.	A7/W35	kW	8.33/30.73	12.7/38.6	20.9/82.8
	Heating Power Input Min./Max.		kW	1.51/6.95	2.8/12.3	4.52/21.6
	COP		W/W	5.5/4.42	4.58/3.15	4.62/3.84
	Heating Capacity Min./Max.	A7/W45	kW	6.36/29.48	12.4/39.9	20.73/82.1
	Heating Power Input Min./Max.		kW	1.9/8.05	3.9/14.7	5.63/25.6
	COP		W/W	3.34/3.66	3.15/2.72	3.68/3.21
Nominal Cooling	Cooling Capacity Min./Max.	A35/W18	kW	11.67/30.36	11.96/34.2	28.46/75.9
	Cooling Power Input Min./Max.		kW	2.46/8.27	2.8/9.1	6.41/20.7
	EER		W/W	4.9/3.67	4.27/3.65	4.44/3.66
	Cooling Capacity Min./Max.	A35/W7	kW	6.36/23.45	4.5/25.1	20.4/54.3
	Cooling Power Input Min./Max.		kW	2.55/8.53	2.9/9.4	5.9/19.6
	EER		W/W	2.49/2.75	1.5/2.59	3.46/2.77
General Information						
Electrical Data	Power Supply		V/Hz/Ph	380-415/50/3		
Operation Limits	Ambient Temperature Range		°C	-25~43		
	Water Temperature Range (Heating)		°C	75/20		
	Water Temperature Range (Cooling)		°C	25/7		
Components	Refrigerant	Type/Amount	-/kg	R290/2.7	R290/4.2	R290/4.2*2
	Compressor	Type		Scroll		
	Fan	Quantity		2	1	1*2
		Airflow	m³/h	5700*2	13500	13500*2
		Rated Power	W	200*2	1100	1100*2
Water Side	Heat Exchanger	Type		Plate Heat Exchanger		
	Piping Connection			G1-1/2"	G2"	DN65
	Allowable Water Flow-Min./Rated/Max.		L/s	0.83/1.43/1.84	0.96/1.9/2.5	1.67/3.82/4.78
Physical Specifications	Net Dimensions (L*D*H)	Control Box	mm	390*132*450		
		Outdoor Unit	mm	1544*600*1795	1170*970*1620	2218*990*2336
	Net Weight	Control Box	kg	10		
		Outdoor Unit	kg	351	348	770

Specifications are subject to change without prior notice. For the actual specifications, please refer to the label on the unit.

Heat Pump Water Heater

AquaSTAR Series

AquaSTAR is an R290 air source heat pump water heater designed for efficient and sustainable domestic hot water production. By utilizing renewable energy from ambient air, it delivers high energy efficiency while reducing energy consumption and environmental impact.

Combining performance, comfort and sustainability, AquaSTAR offers a reliable hot water solution for modern homes.

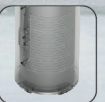
- 

Eco-friendly R290 refrigerant
- 

High water outlet temperature 70°C
- 

Waterproof touch panel
- 

Built-in Wi-Fi for smart control
- 

SG-Ready for intelligent energy optimization
- 

Durable enamel water tank & high-efficiency microchannel heat exchanger

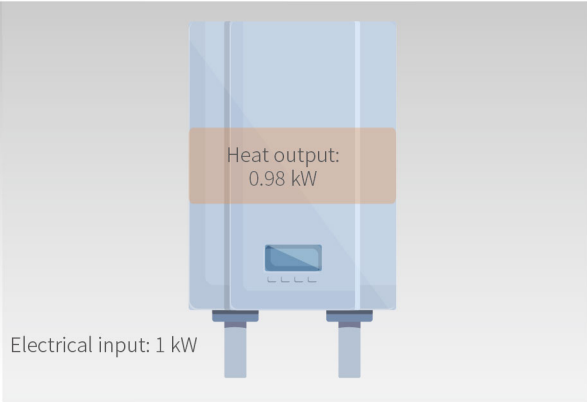


How does an air source water heater save energy for you?

The energy-saving principle of air source water heaters lies in "harnessing extra energy". Unlike ordinary electric water heaters that directly convert electricity into heat, resulting in high energy consumption and limited efficiency, air source heat pump water heaters not only use electricity but also freely extract a large amount of heat from the surrounding air. With the same amount of electricity input, they can generate several times more heat than traditional electric water heaters to heat water.

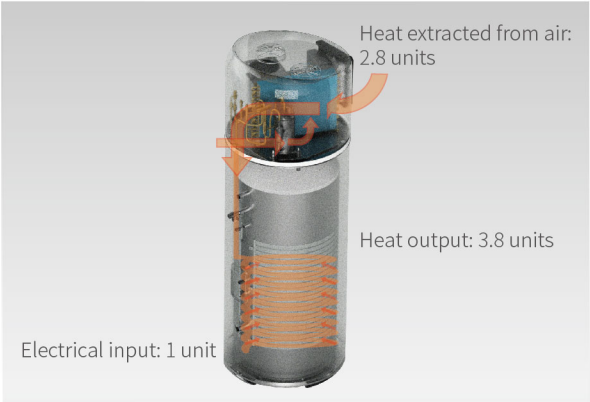
This "more heat with less energy" principle allows every kilowatt-hour of electricity to be used more effectively, reducing energy consumption and saving real costs.

Electric Water Heater: A heating element converts electrical energy into thermal energy



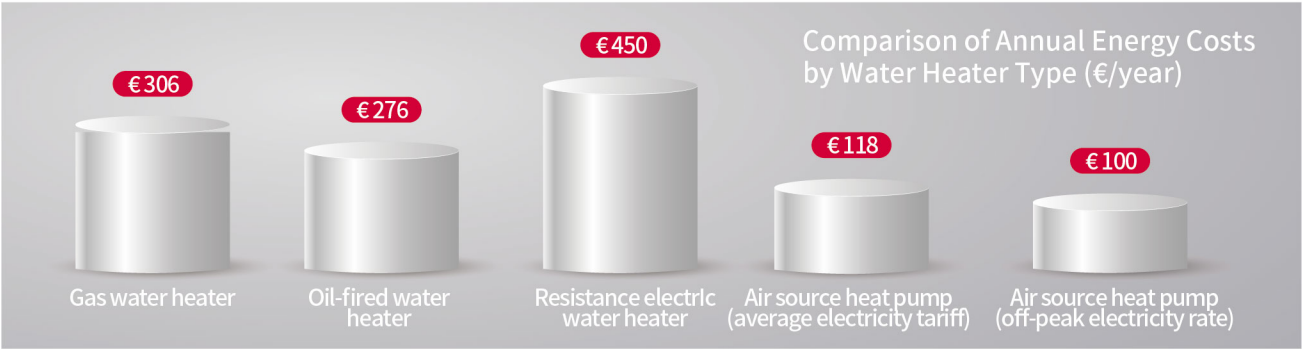
VS

Air Source Heat Pump: A compressor moves existing heat from the air into the water



Save more on hot water with our air source heat pump

Tired of sky-high energy bills? The choice is clear. For a household using 150L of hot water daily, our air source heat pump water heater delivers unmatched savings. We're transparent about the numbers:



Energy Costs: We base our calculations on real-world prices (e.g., average electricity at €0.202/kWh, off-peak electricity at €0.170/kWh, and natural gas at €0.123/kWh).

Efficiency Matters: Our heat pump boasts an impressive annual average COP of 3.8, far surpassing the efficiency of traditional gas, oil, and electric resistance heaters.

Beyond Efficiency: The Off-Peak Advantage

Unlike instant electric water heaters that rely entirely on peak electricity rates, our heat pump uses smart thermal storage technology. It takes advantage of cheaper off-peak electricity to heat and store water in advance, delivering hot water at a lower cost.

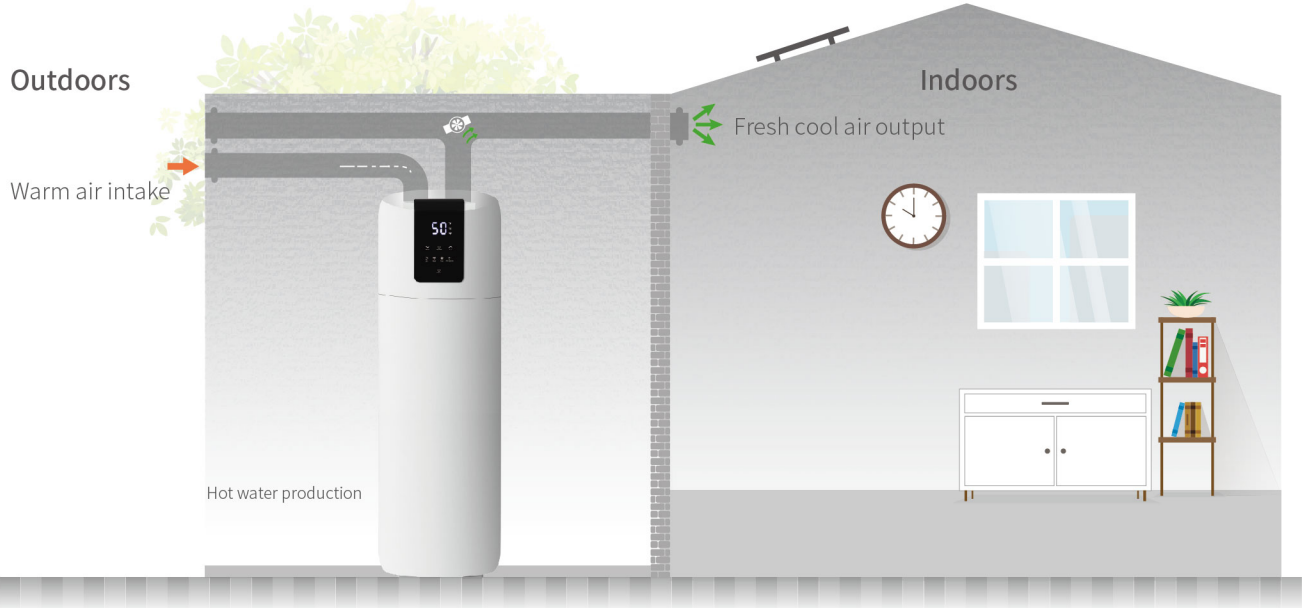
The Bottom Line: Real Savings

Switching to our heat pump can save you a substantial €350 a year compared to a standard electric resistance water heater. Compared to natural gas and oil-fired heaters, you'll see your costs drop by an incredible 60%-70%. Make the smart choice for your wallet and the planet.

Get two-in-one comfort: Domestic hot water and home cooling from a single unit

In summer, the air source water heater does more than heat water. During the water heating process, it also delivers cool air, helping improve indoor comfort.

It produces several times more heat energy than the electricity consumed while providing fresh, cool air at the same time. One efficient system delivers both reliable hot water and indoor cooling.



■ Technical Data

Model		QAMF-1.3HGAAQ/200HX	QAMF-1.3HGAAQ/250HX	QAMF-1.3HGAAQ/300HX
Power Supply	V/Hz/Ph	220-240/50/1		
Water Tank Volume	L	200	250	300
Heating Capacity	kW	1.3		
Rated Input Power	kW	0.45		
Load Profile		L	XL	XL
COP (EN 16147, A7)	W/W	3.43	3.34	3.68
Energy Class		A+		
Energy Efficiency (η _{wh})	%	144	138	154
Mixed Water at 40°C (V ₄₀)	L	189	243	302
Heat-up Time (t _h)	h	7.57	10.57	11.05
Annual Energy Consumption (AEC)	kWh	711	1213	1090
Standby Power Input (P _{es})	kW	0.028	0.033	0.037
Sound Power Level (Indoor)	dB(A)	54	52	56
Sound Power Level (Outdoor)	dB(A)	43	39	44
Electric Heating Element	kW	2		
Refrigerant	-/g	R290/150		
Tank Protection		Magnesium Rod		
Rated Outlet Water Temperature	°C	52		
Max. Outlet Water Temperature	°C	70		
Working Range	°C	-5~43		
Net Dimensions (Ø*H)	mm	Ø640*1620	Ø640*1890	Ø640*2050
Net Weight	kg	95	111	121

Test results are based on test conditions of ambient 7°C/6°C and water temperature range from 10°C to 52°C.

Water Source Space Cooler

Space Cooler, a revolutionary innovation designed for European air source heat pump systems, seamlessly integrates with existing heating setups including heat pump units, underfloor heating pipes, and radiators to deliver efficient cooling at minimal cost. Featuring advanced functions such as draft-free gentle cooling, intelligent temperature and humidity control, and a unique independent dehumidification mode, the Space Cooler redefines comfort and outperforms traditional ACs. It provides a more energy-efficient and comfortable temperature control solution, ensuring ideal indoor climates for European homes and commercial spaces all year round.



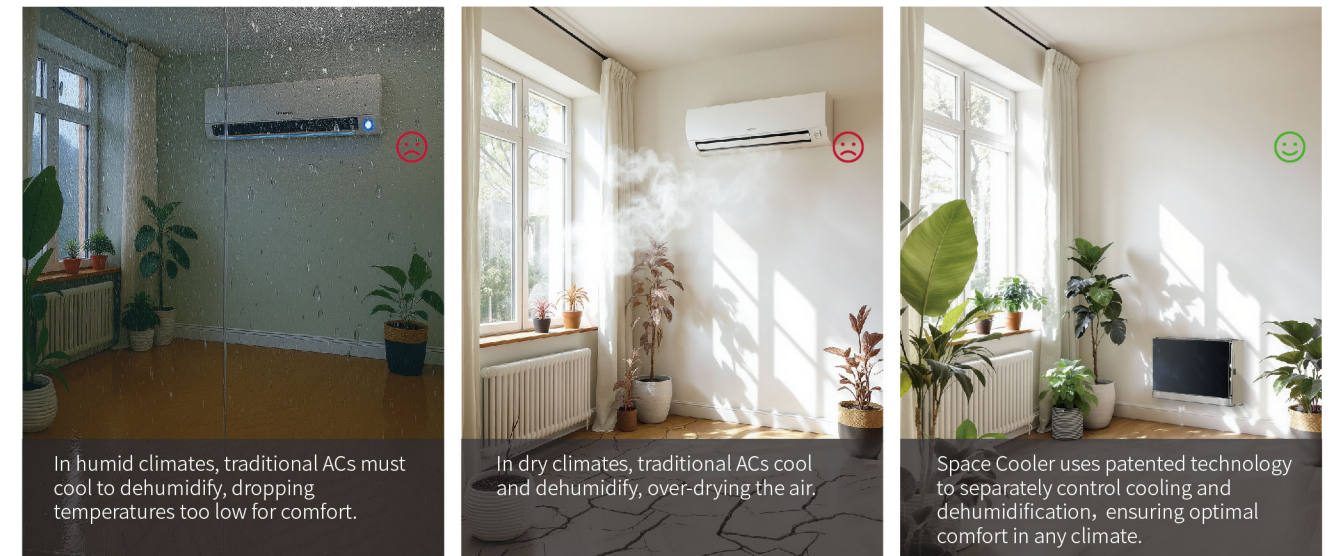
Cost-Effective Dual-Function Upgrade

With a minimal investment, adding a Space Cooler to your existing air source heat pump system instantly unlocks cooling capabilities for the summer. It works seamlessly with heat pump units, underfloor heating pipes, and radiators, transforming your single-purpose heating system into an all-season climate solution that delivers comfortable cooling with cost efficiency in mind.



Radiant Cooling for Serene Comfort

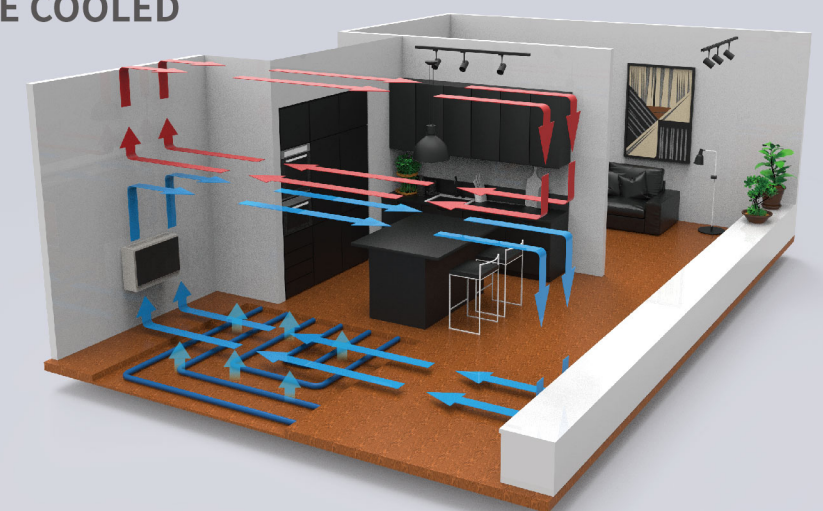
Leveraging the radiant cooling of underfloor pipes or radiators, complemented by the subtle upward airflow from the Space Cooler (designed to avoid direct blowing), it achieves uniform temperature distribution. Say goodbye to the discomfort of cold drafts from traditional ACs and embrace a tranquil, gentle, and perfect cooling experience for summer relaxation.



Intelligent Climate Harmony

Equipped with high-precision sensors, the Space Cooler adapts in real time to environmental changes. In low-humidity conditions, while traditional ACs tend to over-dehumidify and cause dryness, the Space Cooler maintains optimal humidity levels. In high-humidity scenarios, unlike conventional units that lower the temperature to dehumidify, the independent dehumidification mode of the Space Cooler operates without lowering the temperature, or can work with customizable cooling, keeping your space perfectly comfortable while saving energy and promoting well-being. (Space Cooler dehumidification technology Chinese patent: 202110943456.1; PCT international application No.: PCT/CN2022/095413.)

**35-40% OF THE SPACE
DOESN'T NEED TO BE COOLED**



Targeted Cooling, Maximum Efficiency

Thanks to an optimized terminal layout, the Space Cooler focuses on cooling occupied zones, eliminating energy waste from cooling unoccupied areas. Compared to traditional ACs, it significantly reduces energy consumption, aligning with European eco-friendly initiatives and helping cut utility bills.

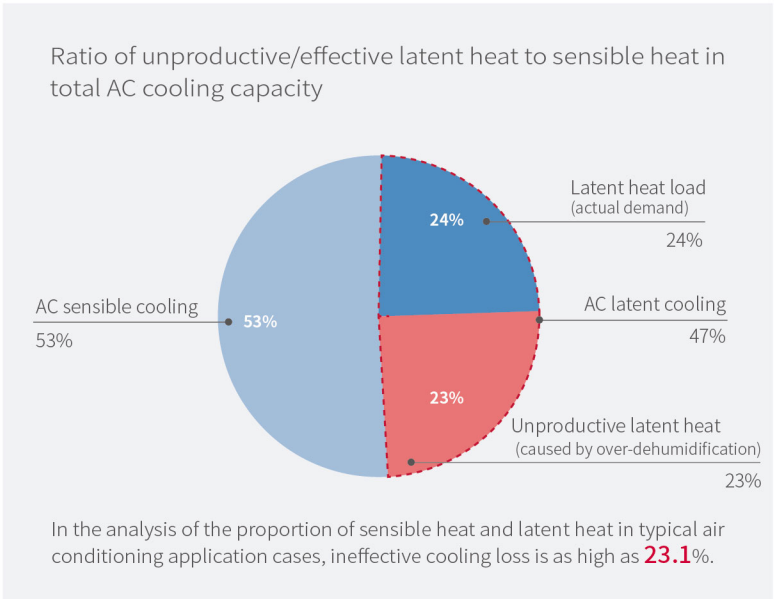


Silent Operation, Unobtrusive Comfort

Advanced noise reduction technology and a refined design ensure that the Space Cooler operates with near-silent performance. Whether you're sleeping soundly at night or focusing on work during the day, it quietly regulates the temperature, providing comfort without any disruption.

Energy-Efficient Dehumidification on Demand

Unlike traditional ACs that waste energy through excessive dehumidification during cooling, the Space Cooler dehumidifies only as needed, this intelligent function ensures optimal humidity levels without unnecessary energy consumption, making it a more sustainable and cost-effective choice.



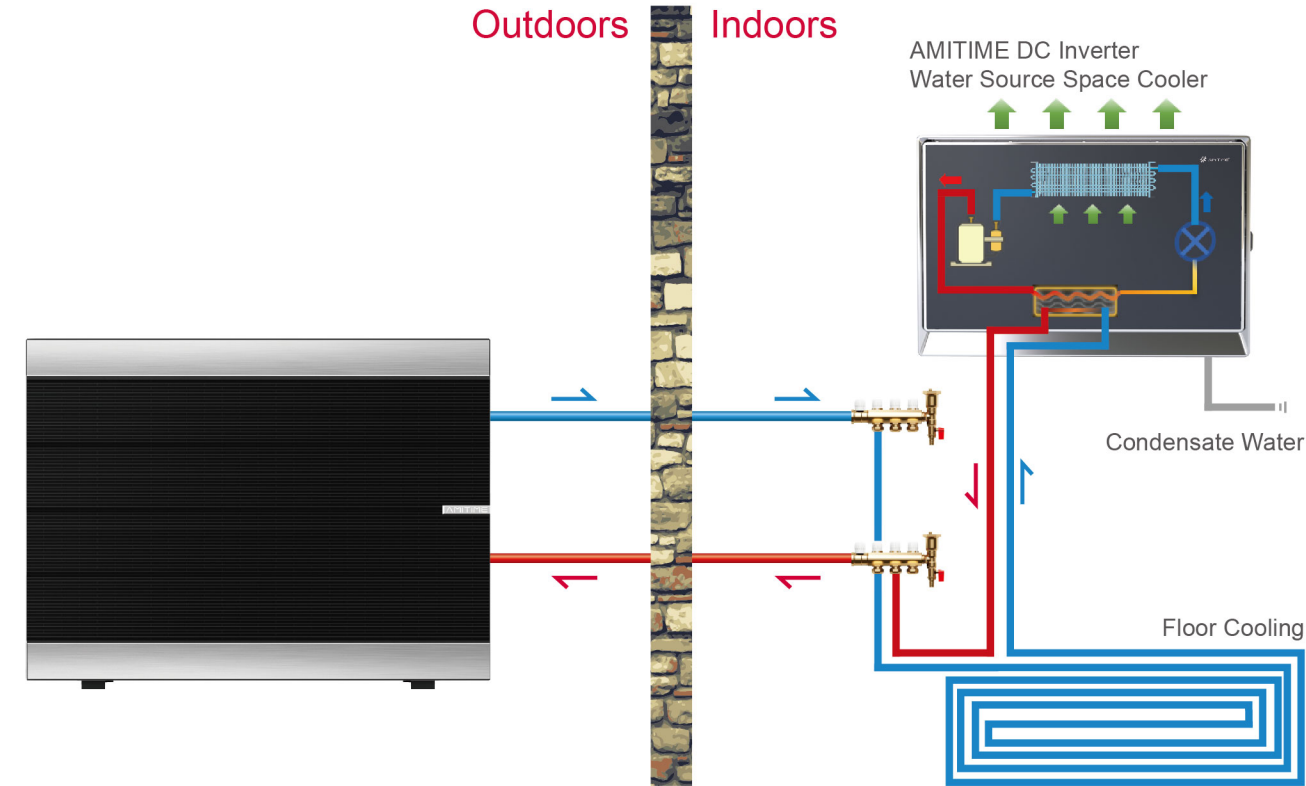
Precision Zone Control

Supporting independent temperature settings for each room, the Space Cooler enables personalized climate control. Tailor the temperature to specific needs, from maintaining a cozy environment in children's rooms to creating an ideal workspace, ensuring maximum comfort and flexibility.

Effortless Plug-and-Play Installation

Installing a Space Cooler is a breeze. Simply connect its water supply pipeline to the underfloor heating system and mount it on the wall. No complex refrigerant lines, air ducts, or ceiling modifications are required. This straightforward process saves time and resources, allowing you to enjoy efficient cooling without the hassle of extensive installation.

System Diagram



■ Technical Data

Model			SWFV-02RFAAGX
Power Supply			V/Hz/Ph 220-240/50/1
Cooling Capacity 1	A27°C/19°C W18°C	W	1400(800-2300)
Cooling Input Power 1		W	200
EER 1		W/W	7
Cooling Capacity 2	A27°C/19°C W30°C	W	1250(800-2200)
Cooling Input Power 2		W	260
EER 2		W/W	4.81
Heating Capacity	A20°C W20°C	W	1500(900-2500)
Heating Input Power		W	360
COP		W/W	4.17
Dehumidification Capacity 1	A27°C/(RH60%) W18°C	kg/h	0.96
Input Power 1		W	180
Dehumidification Efficiency 1		kg/(h.kW)	5.33
Dehumidification Capacity 2	A27°C/(RH60%) W30°C	kg/h	0.88
Input Power 2		W	300
Dehumidification Efficiency 2		kg/(h.kW)	2.93
Air Flow Rate		m³/h	180
Maximum Power		W	600
Maximum Current		A	3
Protection Class			IPX0
Refrigerant		-/g	R290/120
Rated Water Flow Rate		m³/h	0.3
Water Pressure Drop		kPa	10.5
Source Water Temperature Range		°C	10-45
Water Pipe Connection			G1/2
Noise Level	Silent Mode (Cooling)	dB(A)	29
	Standard Mode (Cooling)		33
	Silent Mode (Heating)		30
	Standard Mode (Heating)		35
Net Weight		kg	30
Net Dimensions		mm	750*233*500

Specifications are subject to change without prior notice. For the actual specifications, please refer to the label on the unit.





Fan Coil Unit

BM Series

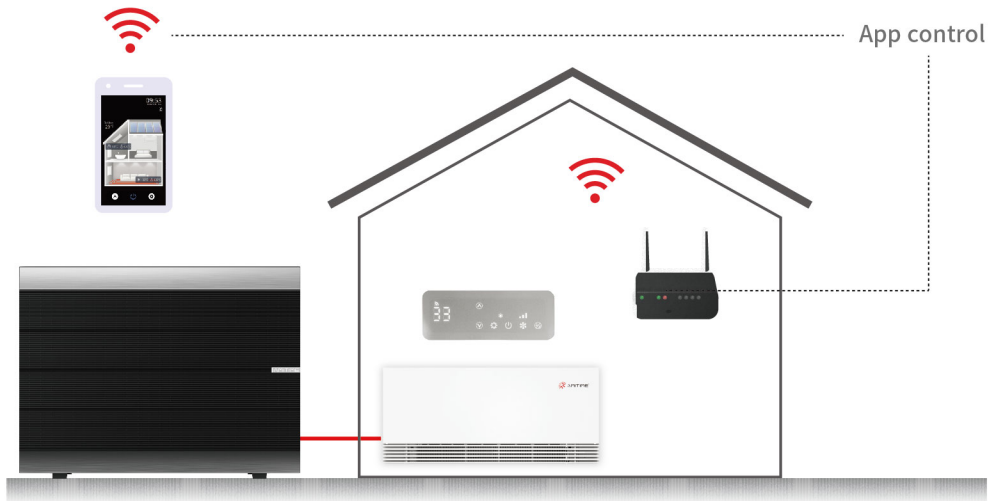
Designed for seamless integration with heat pump systems for both heating and cooling, the BM series features a high-efficiency DC motor that ensures quiet operation and improved indoor comfort. Built-in Wi-Fi connectivity enables convenient remote control via the app on smartphone.

Wi-Fi Smart Control

With built-in Wi-Fi connectivity, the device enables remote control and real-time monitoring via a dedicated app, ensuring efficient operation anytime and anywhere.

Simple operation for various functions

- On/Off control
- Operation mode selection
- Current temperature display
- Set temperature adjustment



High-Quality Components

1 22C
230V~50-60Hz
2.5W
Normally Closed
IP44 CE
made in Italy

2

3

4

5

6

Technical Data

Model		BM150(-DF)	BM350(-DF)	BM450(-DF)	BM550(-DF)
Cooling: Water Inlet/Outlet: 7/12°C; Room Air (DB/WB): 27/19°C					
Total Cooling Capacity	kW	0.75	1.5	2.2	3.1
Sensible Cooling Capacity	kW	0.61	1.25	1.9	2.6
Water Flow Rate	L/h	142	302	453	573
Water Pressure Drop	kPa	7	9	22	28
Heating: Water Inlet/Outlet: 50°C; Room Air 20°C (same flow rate as cooling)					
Heating Capacity	kW	0.99	2	2.8	4.2
Water Flow Rate	L/h	142	302	453	573
Water Pressure Drop	kPa	6.5	7	18.5	24.5
Heating: Water Inlet/Outlet: 70/60°C; Room Air 20°C					
Heating Capacity	kW	1.55	3.1	4.6	6.3
Water Flow Rate	L/h	162	343	471	600
Water Pressure Drop	kPa	7	7.5	19	25
Sound Power Level Measured in Accordance with EN 12102					
Maximum Noise	dB(A)	39	40	42	42.1
Minimum Noise	dB(A)	19.8	18.3	19.1	21
General Information					
Maximum Air Flow	m³/h	160	320	460	580
Power Supply	V/Hz/Ph	230/50/1			
Maximum Operating Pressure	bar	10			
Water Pipe Connection		G1/2			
Maximum Running Current	A	0.12	0.15	0.17	0.2
Maximum Power Input	W	11	15	18	21
Physical Specifications	Net Dimensions (L*D*H)	mm	694*134*588	894*134*588	1094*134*588
	Net Weight	kg	13.5	16.5	20

Specifications are subject to change without prior notice. For the actual specifications, please refer to the label on the unit.

Model Selection Guide

- Standard models (BMXXX) for conventional drain pipe installation.
- DF models (BMXX-DF) with drainage-free design, same performance.
- All models: 230V/50Hz/1Ph | Max. pressure 10 bar | G1/2 connection.

Swimming Pool Heat Pump

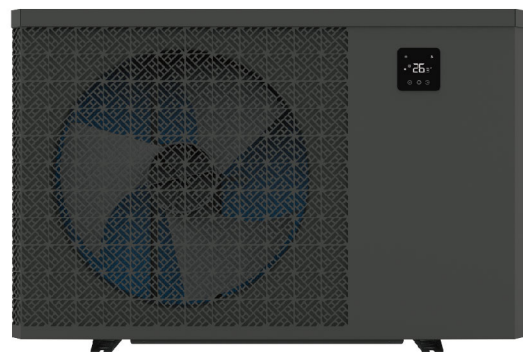
Residential & Commercial Pools

Since entering the swimming pool heat pump market, we have developed a comprehensive product range for both residential and commercial applications, covering applications from small private pools to large commercial projects.

Our portfolio includes pool heat pumps with different refrigerant options, airflow designs, and casing styles, providing flexible solutions for diverse installation requirements and market needs.



Libra Air FI Series



- 

Eco-friendly
refrigerant
- 

High seasonal
efficiency
performance
- 

Stable operation
down to
-20°C (optional)
- 

Premium
anti-UV
control panel

Future-Ready. Built for Today

R290 is shaping the future of pool heating. With ultra-low GWP and high energy efficiency, it offers a more sustainable approach without compromising performance. Designed around this future-oriented refrigerant, Libra Air delivers reliable operation, energy savings, and a solution ready for the evolving demands of the pool market.

Technical Data

Model		Libra Air FI 08	Libra Air FI 10	Libra Air FI 13	Libra Air FI 15	Libra Air FI 20
SCOP		7.8	7.5	7.8	7.9	7.6
Performance at Air 26°C, Water 26°C						
Capacity	kW	8.3~2.6	10~3.1	12.4~3.9	14.2~4.4	18.8~5.7
COP	W/W	5.4~12	5.3~11.2	5~12	5.1~12.1	5.1~11.6
Performance at Air 15°C, Water 26°C						
Capacity	kW	6.1~1.9	7.5~2.2	9.2~2.8	11~3.3	14.4~4.3
COP	W/W	4.2~6.7	4.2~6.8	4.2~7.2	4.2~7.3	4.2~7.2
Performance at Air 35°C, Water 30°C						
Capacity	kW	3.7	4.4	5.3	7.3	7.9
General Information						
Power Supply	V/Hz/Ph	220-240/50/1				
Refrigerant		R290				
Advised Pool Volume	m³	18-30	24-40	30-50	36-60	45-75
Max. Current Input	A	8	10	12	16	19
Rated Power	kW	1.6	1.9	2.2	2.6	3.4
Operating Range	°C	-20 OR -7~43				
Heating Temperature Range	°C	15~40				
Cooling Temperature Range	°C	8~28				
Net Dimensions (L*D*H)	mm	823*375*646			1140*430*750	
Net Weight	kg	44	45	50	67	73
Wi-Fi		YES				

Specifications are subject to change without prior notice. For the actual specifications, please refer to the label on the unit.

Leo FI Series



- 

Enhanced
energy
efficiency
- 

Stable
operation down
to -15°C
- 

Invisible fan
design, simple
and clean
- 

Suitable for
all pool
water systems

Engineered for Performance. Built for Reliability

Ideal for large commercial pools, Leo integrates full DC inverter technology to deliver stable and efficient heating performance with optimized energy consumption during continuous operation.

Technical Data

Model		Leo FI 40	Leo FI 50	Leo FI 70	Leo FI 130
Performance at Air 26°C, Water 26°C					
Capacity	kW	37.1	46.6	66.2	130
COP	W/W	5.4	5.7	5.2	5
Performance at Air 15°C, Water 26°C					
Capacity	kW	27.7	35.3	50.2	98.4
COP	W/W	4.3	4.4	4.2	4.1
Performance at Air 35°C, Water 30°C					
Capacity	kW	19.6	29	32	62.7
General Information					
Power Supply	V/Hz/Ph	220-240/50/1	380-420/50/3		
Refrigerant		R32			
Advised Pool Volume	m³	85-140	105-175	150-250	300-500
Max. Current Input	A	40.78	18	25	50
Rated Power	kW	6.44	8.07	12	24
Operating Range	°C	-15~43			
Heating Temperature Range	°C	15~40			
Cooling Temperature Range	°C	8~28			
Noise at 10m	dB(A)	30-50	30-50	35-55	50-75
Net Dimensions (L*D*H)	mm	974*974*1090	1082*1072*1090	1082*1072*1260	2142*1157*1300
Net Weight	kg	198	218	207	438
Wi-Fi		YES			

Specifications are subject to change without prior notice. For the actual specifications, please refer to the label on the unit.