



Commercial Heat Pump PowerSTAR(+)



Eco-friendly refrigerant

PowerSTAR+: R290



High energy efficiency

PowerSTAR+: A+++
PowerSTAR: A++



Multi-functional

Heating, cooling and
hot water in one
system



Flexible cascade

PowerSTAR+: max 15 units
PowerSTAR: max 16 units

Commercial Heat Pump

PowerSTAR(+)

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.



Intelligent control

Remote app control



High water temperature

Water temperature up to 75°C



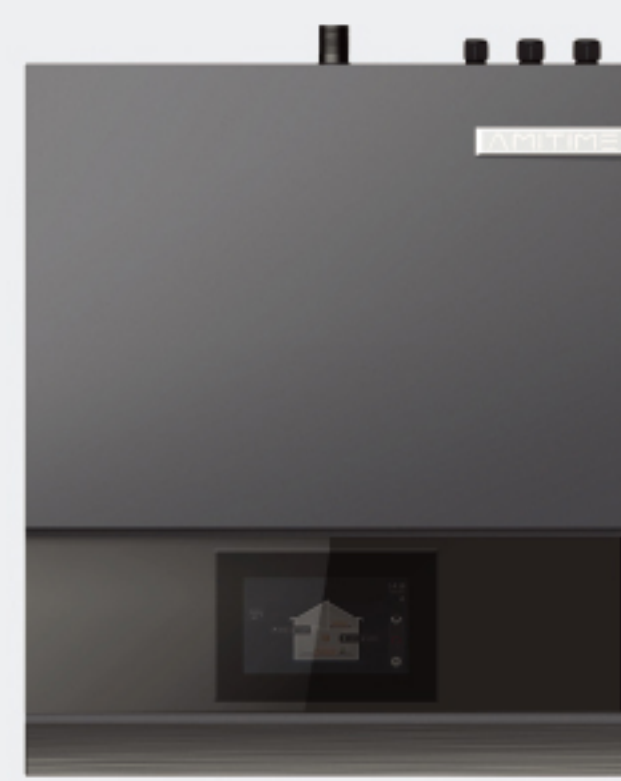
Quiet operation

Reduced noise with EC fan motor and optimized airflow design



Low operating costs

Intelligent energy-saving control based on real operation simulation



Internal Structure

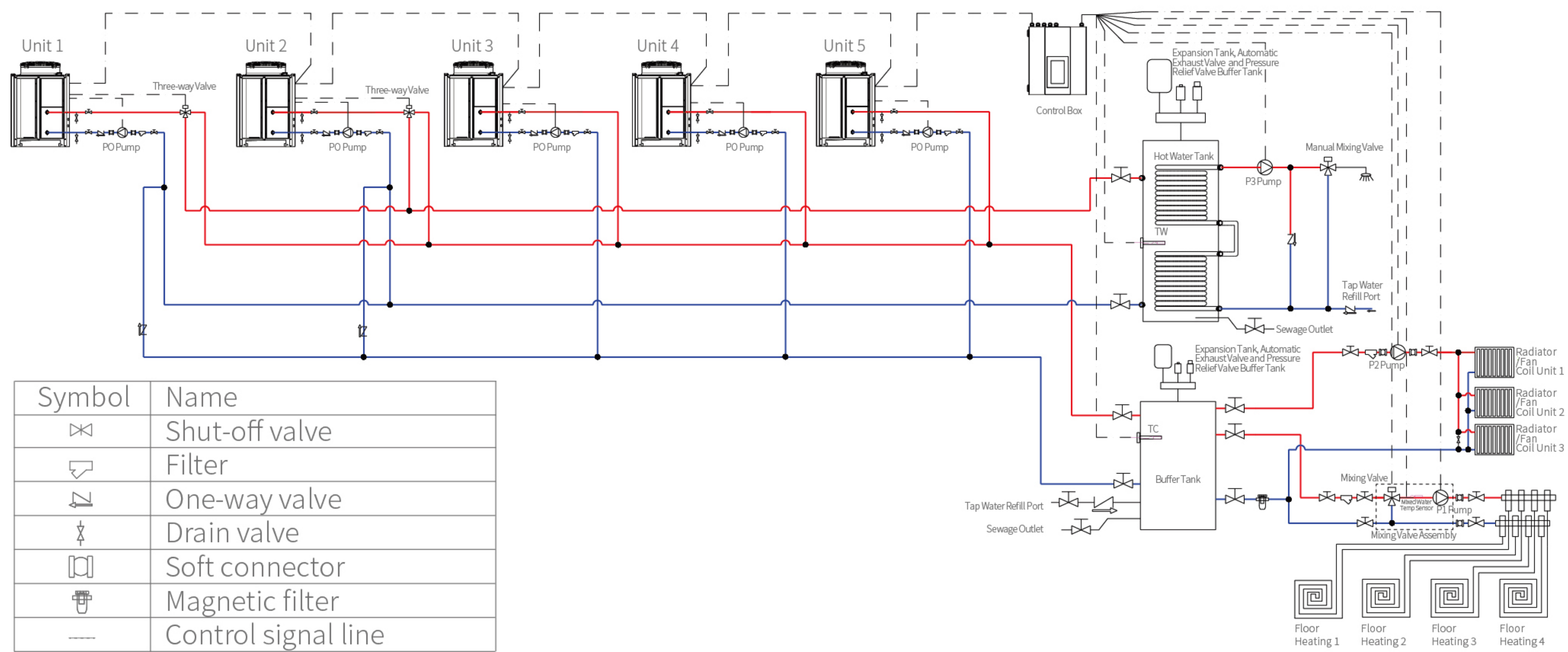


- 1 EC fan motor
- 2 Evaporator
- 3 Electronic expansion valve
- 4 Control system
- 5 DC inverter compressor
- 6 Water pump (optional)

Models

Phase	Refrigerant	Capacity (kW)	Outdoor Unit	
3-phase	R290	30	PowerSTAR+ 30TM	
		40	PowerSTAR+ 40TM	
		80	PowerSTAR+ 80TM	
	R410A	45	PowerSTAR 45TM	
		90	PowerSTAR 90TM	

Application



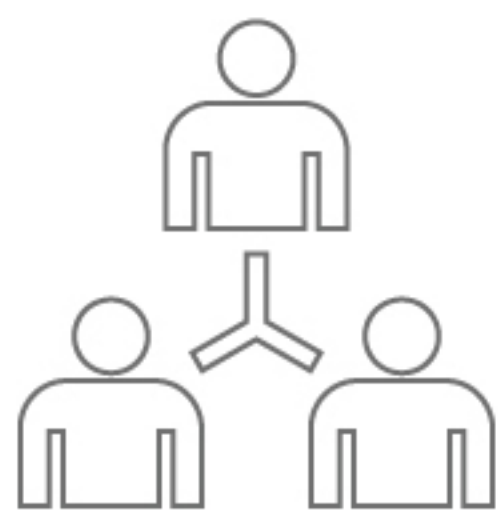
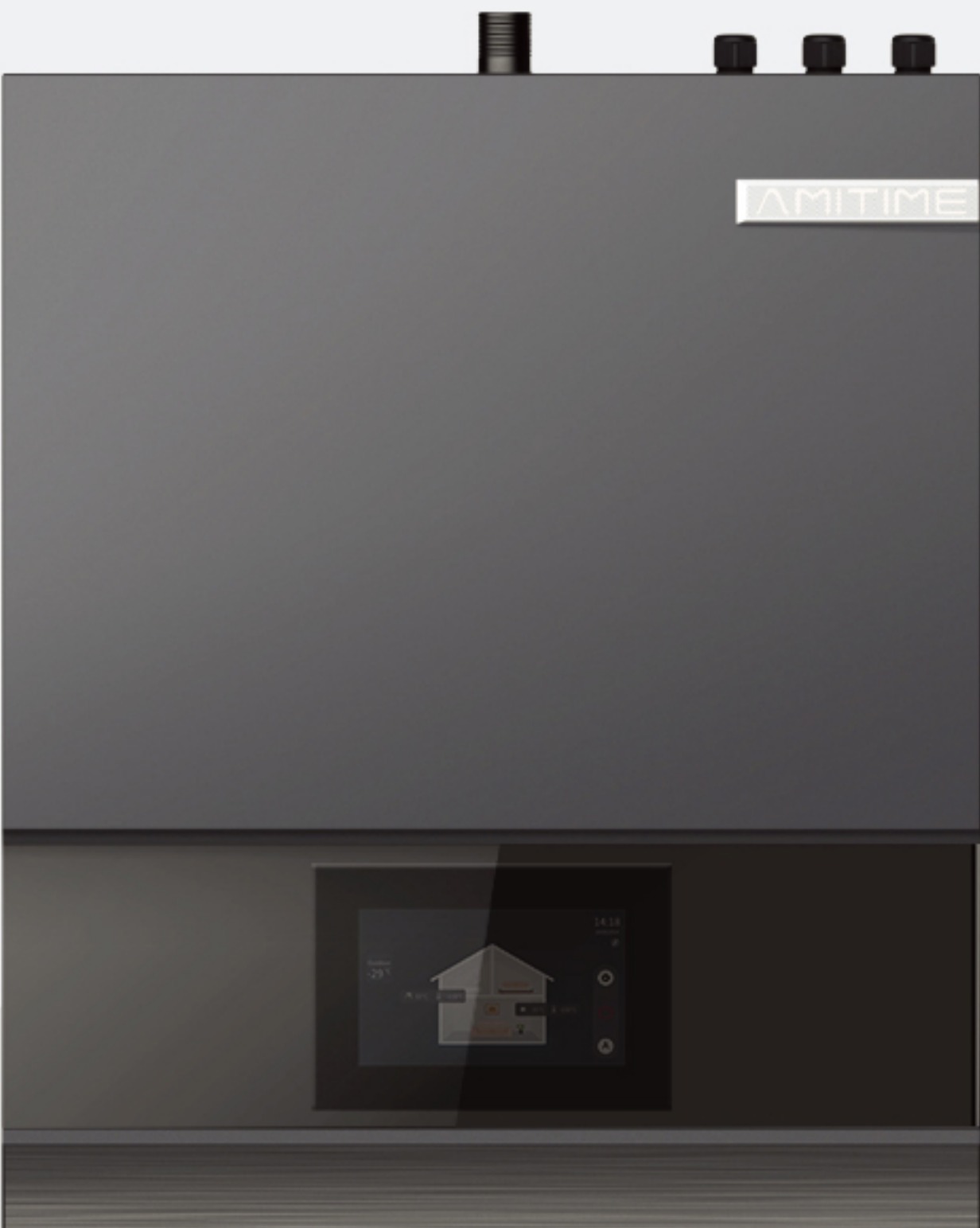
■ Smart Touch Control Box

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



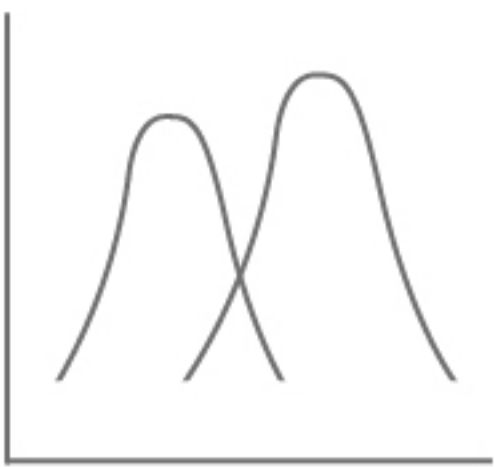
Cascade

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



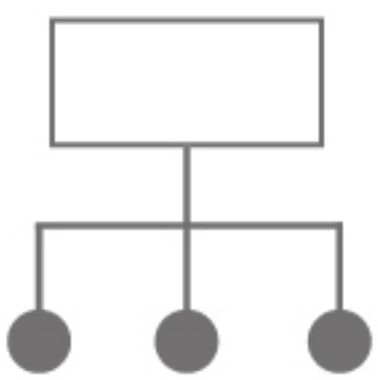
Smart heating curve

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



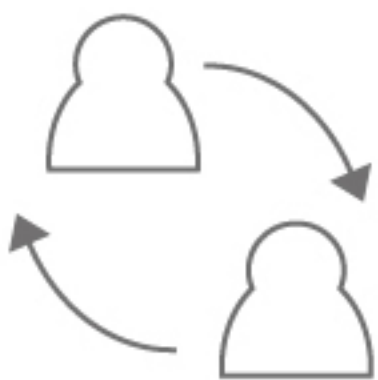
Multi-circuit control

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



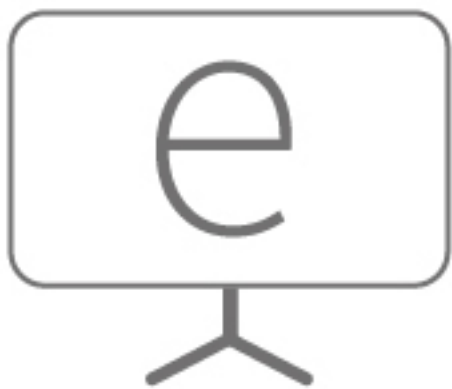
Run in rotation

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



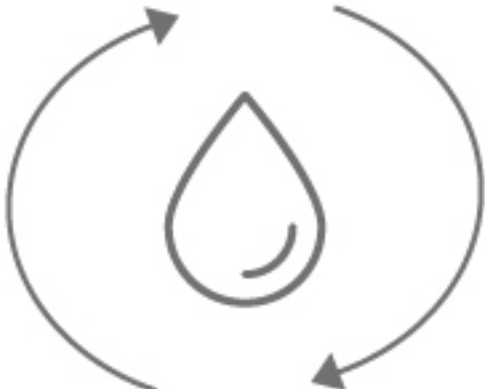
Emergency backup operation

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

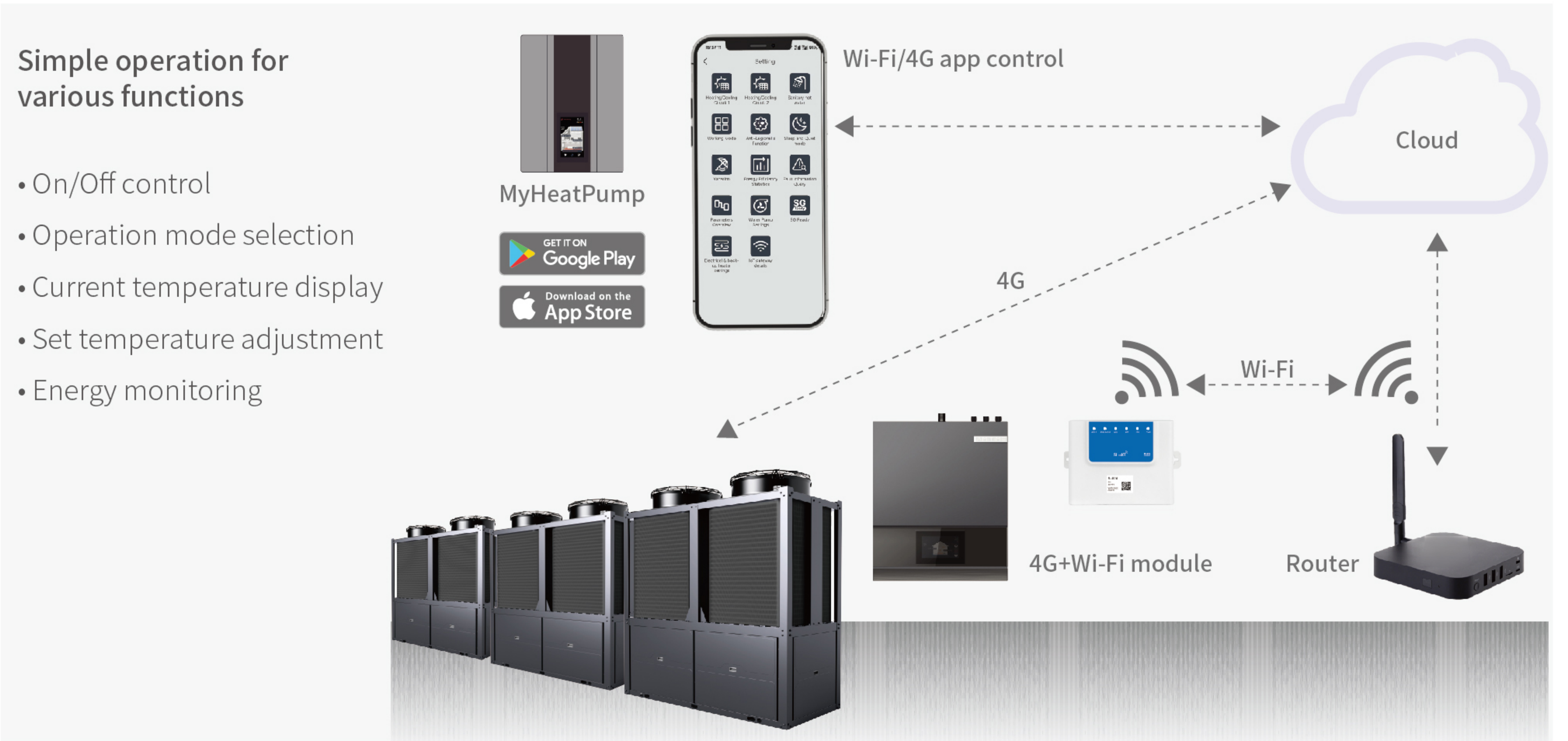


Smart defrosting

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+



■ 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.

PowerSTAR

R410A



■ Technical Data

Model			PowerSTAR 45TM	PowerSTAR 90TM
Power Supply		V/Hz/Ph	400/50/3	400/50/3
Heating Conditions: Water inlet/outlet temperatures: 30°C/35°C, ambient temperatures: DB 7°C/WB 6°C				
Min/Max Heating Capacity		kW	13.7~43.7	27.4~89.6
El. Heating Power Input Min/Max		kW	3.3~12.1	6.7~24.2
COP Min/Max		W/W	3.62~4.42	3.68~4.5
Heating Conditions: Water inlet/outlet temperatures: 40°C/45°C, ambient temperatures: DB 7°C/WB 6°C				
Min/Max Heating Capacity		kW	13.6~43.2	28.2~89.5
El. Heating Power Input Min/Max		kW	4.2~14.3	8.2~28.3
COP Min/Max		W/W	2.99~3.38	3.16~3.48
SCOP - Average Climate, Low Temperature			4.12	4.2
Energy Class			A++	A++
Cooling Conditions: Water inlet/outlet temperatures: 23°C/18°C, ambient temperatures: DB 35°C/WB 24°C				
Min/Max Cooling Capacity		kW	17.7~32	36.4~66
El. Cooling Power Input Min/Max		kW	3.5~11.8	7~23.7
EER Min/Max		W/W	2.72~5.09	2.8~5.19
Cooling Conditions: Water inlet/outlet temperatures: 12°C/7°C, ambient temperatures: DB 35°C/WB 24°C				
Min/Max Cooling Capacity		kW	11.2~29.9	23.4~61.2
El. Cooling Power Input Min/Max		kW	3.5~11.6	6.9~23.5
EER Min/Max		W/W	2.57~3.3	2.61~3.4
Operating Parameters				
Min/Max Ambient Working Temp. in Heating Mode		°C	-30~45	-30~45
Min/Max Ambient Working Temp. in Cooling Mode		°C	15~55	15~55
Max Flow Temp. in Heating Mode		°C	60	60
Min Flow Temp. in Heating Mode		°C	20	20
Min Flow Temp. in Cooling Mode		°C	7	7
IP Rating		IPXX	IPX4	IPX4
Sound Power Level	Outdoor Unit	dB(A)	66	69
Components				
Compressor Heater		W	30	30*2
Fan	Quantity		1	2
	Airflow	m³/h	13500	13500*2
Shell-and-Tube Heat Exchanger	Piping Connection		2" Internal Thread	DN65
Refrigerant	Type		R410A	R410A
	Charge	kg	8	8*2
Compressor	Type		EVI DC Inverter	EVI DC Inverter
	Brand		Mitsubishi	Mitsubishi
Hydraulics				
Minimum Water Fow		m³/h	5	10
Nominal Water Fow		m³/h	8	16
Hydraulic Connection			2" Internal Thread	DN65
Physical Specifications	Net Dimensions (L*D*H)	Outdoor Unit	mm	1010*1160*1650
		Control Box	mm	385*150*476
	Net Weight	Outdoor Unit/Control Box	kg	300/9

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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.

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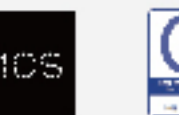

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