

For High-Rise Buildings

Bring Warmth to More Urban Homes

No Fear of High-Rises

Easily handle high-level installations, meeting heating and cooling needs of tall buildings

Upgraded Drainage System

Heated condensate drains prevent ice formation in high-rises

Precision Vibration & Noise Reduction

Eliminate vertical vibration transmission, ensuring quiet operation

Unique High-Power Airflow Design

Reduce hot/cold spots, making high-temperature cooling and low-temperature heating easier

Compact, Space-Saving Design

Suitable for various installation locations, ideal for high-rise applications



HeatCOOL Series

Full Monoblock



Technical Data

Model			PEVCH-15V1FA	PEVCH-18V1FA	PEVCH-20V1FA	PEVCH-20V4FA	PEVCH-22V4FA	PEVCH-25V4FA	PEVCH-30V4FA	PEVCH-35V4FA	PEVCH-45V4FA
Power Supply		V/Ph/Hz	220V~50Hz	220V~50Hz	220V~50Hz	380V3N~50Hz	380V3N~50Hz	380V3N~50Hz	380V3N~50Hz	380V3N~50Hz	380V3N~50Hz
Rated Heating	Capacity	kW	14.0(6.8~15.8)	17.0(7.5~17.8)	20.0(8.3~20.6)	20.0(8.3~20.6)	22.5(9.2~23.0)	25.0(9.3~27.1)	30.0(10.0~32.5)	35.5(13.5~37.0)	44.0(15.5~45.0)
A 7°C	Power Input	kW	4.1(1.9~4.9)	5.0(2.1~5.4)	5.8(2.3~6.1)	5.8(2.3~6.1)	6.6(2.5~6.8)	7.1(2.4~8.2)	8.7(2.7~9.8)	10.2(3.5~11.0)	13.6(4.3~14.0)
W 45°C	COP	/	3.4(3.2~3.6)	3.4(3.3~3.6)	3.5(3.4~3.6)	3.5(3.4~3.6)	3.4(3.4~3.7)	3.5(3.3~3.9)	3.5(3.3~3.7)	3.5(3.4~3.9)	3.2(3.2~3.6)
Nominal Heating 1	Capacity	kW	11.0(4.1~11.2)	13.0(4.6~13.3)	15.5(5.9~15.8)	15.5(5.9~15.8)	16.5(6.0~16.8)	20.0(7.5~20.0)	21.5(8.0~21.5)	27.0(10.0~27.0)	30.5(14.5~30.5)
A -12°C	Power Input	kW	3.9(1.4~4.1)	4.5(1.5~4.8)	5.2(1.8~5.4)	5.2(1.8~5.4)	5.6(1.9~5.8)	7.2(2.4~7.2)	8.2(2.7~8.2)	9.6(3.3~9.6)	11.5(4.9~11.5)
W 35°C	COP	/	2.8(2.7~2.9)	2.9(2.8~3.1)	3.0(2.9~3.3)	3.0(2.9~3.3)	3.0(2.9~3.2)	2.8(2.8~3.1)	2.6(2.6~3.0)	2.8(2.8~3.0)	2.7(2.7~3.0)
Low Ambient Heating 1	Capacity	kW	9.5(3.5~9.6)	12.0(3.9~12.3)	12.5(5.5~13.0)	12.5(5.5~13.0)	13.5(5.6~14.0)	16.5(7.0~16.5)	18.5(7.3~18.5)	23.0(7.8~23.0)	25.5(13.0~25.5)
A -20°C	Power Input	kW	4.0(1.4~4.1)	4.9(1.5~5.1)	4.9(2.0~5.2)	4.9(2.0~5.2)	5.4(2.0~5.7)	6.6(2.5~6.6)	7.7(2.7~7.7)	9.1(2.8~9.1)	10.9(5.0~10.9)
W 35°C	COP	/	2.4(2.3~2.5)	2.5(2.4~2.6)	2.6(2.5~2.8)	2.6(2.5~2.8)	2.5(2.5~2.8)	2.5(2.5~2.8)	2.4(2.4~2.7)	2.5(2.5~2.8)	2.3(2.3~2.6)
Nominal Heating 2	Capacity	kW	11.5(4.8~11.6)	13.0(5.2~13.8)	16.0(6.2~16.3)	16.0(6.2~16.3)	17.0(6.4~17.2)	20.0(7.5~20.0)	21.5(8.2~21.5)	27.0(10.0~27.0)	30.5(14.5~30.5)
A -12°C	Power Input	kW	4.5(1.8~4.6)	5.2(1.9~5.7)	5.9(2.1~6.1)	5.9(2.1~6.1)	6.4(2.2~6.6)	7.6(2.6~7.6)	8.4(2.9~8.4)	10.8(3.6~10.8)	12.7(5.4~12.7)
W 41°C	COP	/	2.6(2.5~2.7)	2.5(2.4~2.7)	2.7(2.7~3.0)	2.7(2.7~3.0)	2.7(2.6~2.9)	2.6(2.6~2.9)	2.6(2.6~2.8)	2.5(2.5~2.8)	2.4(2.4~2.7)
Low Ambient Heating 2	Capacity	kW	10.0(3.8~10.3)	12.5(4.2~12.8)	13.0(5.8~13.5)	13.0(5.8~13.5)	14.0(5.8~14.5)	16.5(7.0~16.5)	18.5(7.3~18.5)	23.0(7.8~23.0)	25.5(13.0~25.5)
A -20°C	Power Input	kW	4.7(1.6~4.9)	5.6(1.7~6.0)	5.4(2.2~5.7)	5.4(2.2~5.7)	6.0(2.2~6.3)	7.4(2.8~7.4)	8.6(3.0~8.6)	10.3(3.2~10.3)	12.2(5.6~12.2)
W 41°C	COP	/	2.1(2.1~2.4)	2.2(2.1~2.5)	2.4(2.4~2.6)	2.4(2.4~2.6)	2.3(2.3~2.6)	2.2(2.2~2.5)	2.2(2.2~2.4)	2.2(2.2~2.4)	2.1(2.1~2.3)
Nominal Heating 3	Capacity	kW	11.5(5.2~12.0)	13.5(5.6~14.0)	16.0(7.5~16.4)	16.0(7.5~16.4)	17.5(7.5~17.7)	20.0(7.5~20.0)	21.5(8.2~21.5)	27.0(10.0~27.0)	30.5(14.5~30.5)
A -12°C	Power Input	kW	5.0(2.1~5.5)	5.7(2.2~6.2)	7.1(2.7~7.5)	7.1(2.7~7.5)	7.9(2.7~8.1)	9.0(3.0~9.0)	10.4(3.5~10.4)	11.7(3.9~11.7)	14.2(6.1~14.2)
W 50°C	COP	/	2.3(2.2~2.5)	2.4(2.3~2.6)	2.3(2.2~2.8)	2.3(2.2~2.8)	2.2(2.2~2.8)	2.2(2.2~2.5)	2.1(2.1~2.3)	2.3(2.3~2.6)	2.2(2.2~2.4)
Low Ambient Heating 3	Capacity	kW	10.5(4.2~10.6)	12.5(4.8~13.0)	13.5(6.0~14.0)	13.5(6.0~14.0)	15.0(6.0~15.5)	16.5(7.0~16.5)	18.5(7.3~18.5)	23.0(7.8~23.0)	25.5(13.0~25.5)
A -20°C	Power Input	kW	5.5(1.9~5.7)	6.2(2.2~6.6)	7.0(2.5~7.3)	7.0(2.5~7.3)	7.5(2.5~7.9)	8.2(3.1~8.2)	9.7(3.4~9.7)	11.5(3.4~11.5)	13.4(5.9~13.4)
W 50°C	COP	/	1.9(1.9~2.2)	2.0(2.0~2.2)	1.9(1.9~2.4)	1.9(1.9~2.4)	2.0(2.0~2.3)	1.9(1.9~2.2)	2.0(2.0~2.3)	2.0(2.0~2.3)	1.9(1.9~2.2)
Nominal Cooling	Capacity	kW	12.0(5.3~14.1)	14.0(6.1~15.6)	16.0(7.3~17.8)	16.0(7.3~17.8)	18.5(8.4~20.0)	22.0(10.4~23.5)	24.5(10.5~26.0)	30.5(14.3~30.5)	36.0(15.2~36.0)
A 35°C	Power Input	kW	4.1(1.5~5.2)	4.8(1.7~5.7)	5.2(2.0~6.5)	5.2(2.0~6.5)	6.1(2.3~6.9)	7.4(2.9~9.0)	8.4(2.9~10.0)	10.7(4.1~10.7)	14.0(4.3~14.0)
W 7°C	EER	/	2.9(2.7~3.5)	2.9(2.7~3.6)	3.1(2.7~3.7)	3.1(2.8~3.7)	3.0(2.9~3.7)	3.0(2.6~3.6)	3.0(2.6~3.6)	2.9(2.9~3.5)	2.6(2.6~3.5)
Max.Allowable Pressure on Low/High Pressure Side	MPa		2.3/4.2	2.3/4.2	2.3/4.2	2.3/4.2	2.3/4.2	2.3/4.2	2.3/4.2	2.3/4.2	2.3/4.2
Max. Operating Power/Current	kW/A		6.6/30.0	7.0/32.0	7.9/36.0	8.9/16.0	9.4/17.0	12.0/22.0	13.0/24.0	16.0/29.5	18.0/33.5
Working Temp. Range	°C		-35~52	-35~52	-35~52	-35~52	-35~52	-35~52	-35~52	-35~52	-35~52
Water Pressure Range	MPa		0.14~0.7	0.14~0.7	0.14~0.7	0.14~0.7	0.14~0.7	0.14~0.7	0.14~0.7	0.14~0.7	0.14~0.7
Heating Water Outlet Temp.	°C		25~55	25~55	25~55	25~55	25~55	25~55	25~55	25~55	25~55
Cooling Water Outlet Temp.	°C		7~25	7~25	7~25	7~25	7~25	7~25	7~25	7~25	7~25
Water Pressure Drop	kPa		28	28	30	7~25	30	30	32	35	40
Water Pipe Connection	/		G1"	G1"	G1-1/4"	G1-1/4"	G1-1/4"	G1-1/2"	G1-1/2"	G1-1/2"	G1-1/2"
Refrigerant	g		R32/2100	R32/2300	R32/3000	R32/3000	R32/3000	R32/3000	R32/3900	R32/3900	R410A/6800
IP Rating	/		IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Noise (Cooling/Heating)	dB(A)		56/54	56/54	57/55	57/55	57/55	58/56	58/56	59/57	62/60
Rate Water Flow	m³/h		2.06	2.41	2.75	2.75	3.18	3.78	4.21	5.25	6.19
Net Weight	kg		101	110	134	134	134	170	180	190	248
Net Dimensions	mm		1000*400*1010	1000*400*1010	1000*400*1400	1000*400*1400	1000*400*1400	1165*400*1568	1165*400*1568	1165*400*1568	1295*587*1665

Note: Specifications and performance are subject to change due to product upgrades without prior notice. Please refer to the product nameplate for the final parameters.

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Enterprise Certification



Heat Pump Catalog



Official Website



Peaceful Power, Comfortable Warmth

HeatCOOL Series Residential Heat Pump

Multiple Protection:

Durable and Reliable

System Protection

Prevent oil or liquid return issues at low ambient and water temperatures, ensuring stable operation in variable conditions

Bottom Plate Anti-Freeze

Centralized drainage components (optional) prevent internal ice build-up in low-temperature, high-humidity environments

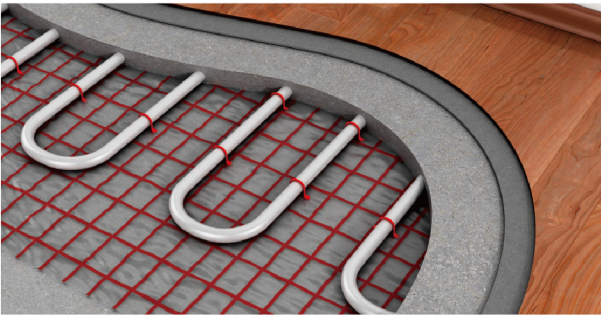
IPX4 Water Resistance

Rigorous waterproof testing guarantees reliable outdoor performance



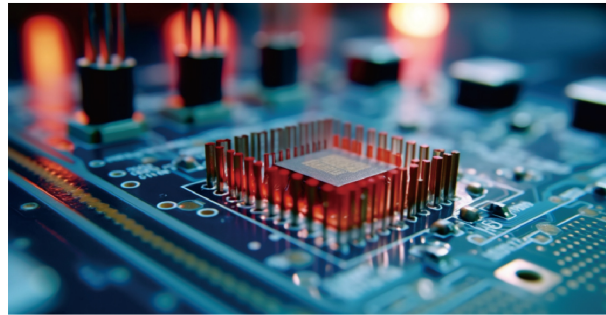
Multiple Protection Functions

- Equipped with pressure switches, flow controllers, overload protection, and phase-sequence protection
- Automatically detect faults and trigger alarms for safe operation



Intelligent Water-Side Anti-Freeze

- Combine hardware protection with triple-layer software anti-freeze design
- Prevent freezing and damage to water-side heat exchanger shells and copper tubes



AI Adaptive Defrost Technology

- Automatically determine defrost requirements based on ambient temperature, humidity, and frost formation speed
- Reduce capacity loss and defrost frequency, minimize water temperature fluctuations, and enhance system reliability



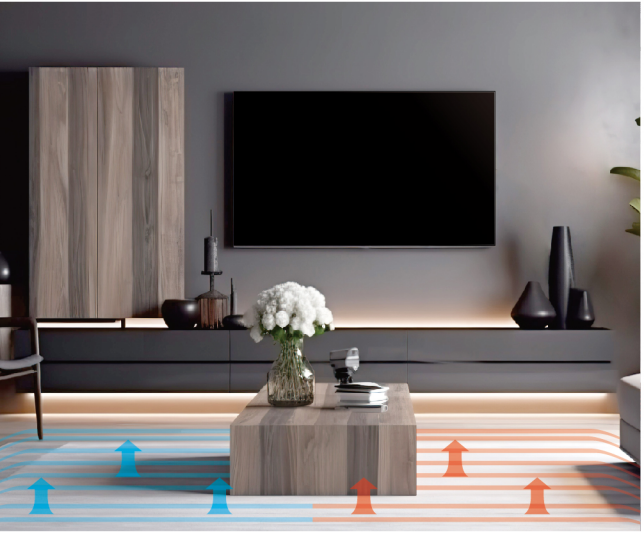
Variable-Speed Gas-Liquid Injection Compressor

- Use liquid-injection, quasi-two-stage compression technology
- Significantly improve low-temperature heating performance and water outlet temperature
- Ensure durable and long-lasting operation

More Comfort

Keep Your Home Cozy in Every Season

- **Enhanced Vapor Injection (EVI) Technology**
Up to 20% higher efficiency, 15% less power consumption
- **Healthy & Comfortable Cooling**
Gentle airflow with minimal temperature difference, ensuring a safe and comfortable water system
- **Ultra-Wide Operating Range**
Heating: -35°C to 43°C | Cooling: -52°C



Less Noise

Hear the Joy of Life

- **Patented Soundproof Chamber**
A decade of innovation, leading quiet technology
- **Upgraded Noise-Reducing Material**
PET soundproof material significantly reduces compressor noise
- **Bio-Mimetic Air Duct Design**
Quieter airflow for more comfort
- **Ultimate Noise Optimization**
Thousands of structural noise-reduction iterations for an exceptionally quiet experience



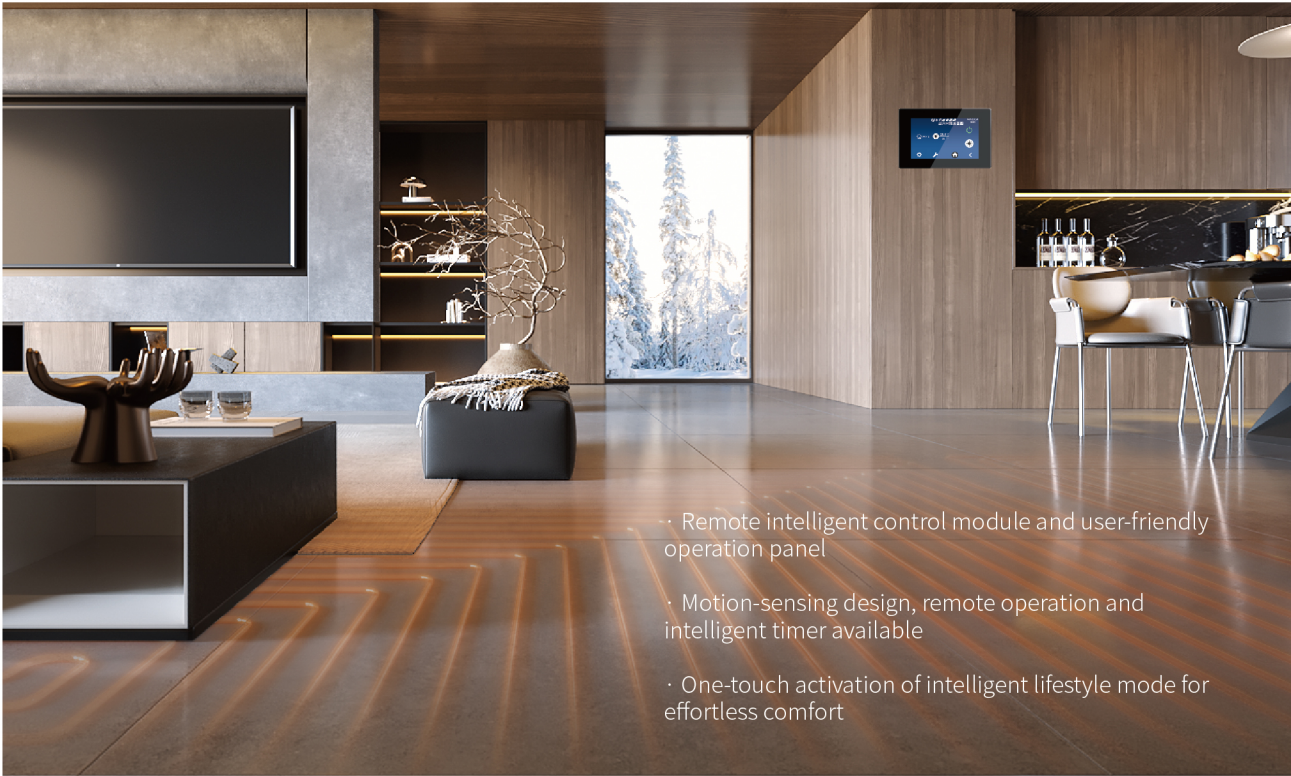
More Warmth

Embrace Winter Happiness

- **Enhanced Vapor Injection (EVI) Technology**
Reliable heating performance, stable operation down to -35°C, maximum water temperature 55°C
- **5th-Generation AI Defrost Technology**
Fast and intelligent defrosting reduces defrost duration by 30% and increases defrost interval by 130%
- **Refrigerant Control Technology**
Maintain heating capacity in extremely low temperatures, with up to 10% improved heating output



Smart Control for Whole-Home Comfort



- Remote intelligent control module and user-friendly operation panel
- Motion-sensing design, remote operation and intelligent timer available
- One-touch activation of intelligent lifestyle mode for effortless comfort

Wide Application: Multi-Unit Collaboration



- A single unit can cover 70 to 320m² of building area
- Up to 5 units of the same model can operate in parallel, easily meeting heating and cooling needs for 350 to 1600m²
- Flexible for different settings