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Deutschland
Produktion

Air Source Heat Pump System

KAW Series

AIR SOURCE HEAT PUMP SYSTEM



- Sourced from Germany , stylish appearance
- EVI scroll compressor
- Finned heat exchanger with ultra wide fin space
- -25°C work efficiently
- 24 hours consistently hot water supply
- High COP , Super quiet
- Saving energy cost up to 50%



Principle Of Work

What is an air source heat pump system? How does it work?

An air source heat pump system is a way of utilization of solar energy. A large portion of solar energy existed in the air, the heat is absorbed from the air by an outdoor unit called evaporator, refrigerant in the evaporator is in gaseous state, then the compressor increases the temperature and pressure of the refrigerant , after that , the refrigerant transfers its heat to the heating medium in condenser , the heating medium will bring the heat to your house heating system or for hot water. The refrigerant was reverted into liquid now , it will move to the evaporator again and start to collect the new energy for the air. The circling will keep running all the time.



Featured Configuration

- ① Unit of air source heat pump + buffer tank
- ② Outdoor unit
- ③ Floor heating circulation
- ④ Radiator
- ⑤ Indoor fan coil system
- ⑥ 24 hours hot water supply
- ⑦ Solar energy panel



Product Features

- 4.4 COP** EVI scroll compressor,finned heat exchanger with ultra wide fin space. COP 4.4 at 2°C/35°C (Air/Water).
- ECO+** Green, efficient, environment-friendly , zero CO₂ emission.
- ASSC** Supply heating,cooling and domestic hot water. Max heating temp. reaches at 60°C,domestic hot water 55°C.
- DOUBLE ENERGY** Solar energy heater system can be connected in,making the entire system more efficient.
- EVI -25°C** By applying EVI compressor , the unit can work under -25°C extreme cold weather stably,safely and efficiently.
- 20 YEARS** Advanced technology, German manufacturing standard, High quality components, make sure long-time running.
- TIMER** Preset time, reservation available, make it possible to utilize peak and valley time electricity price and save the running cost.
- AUTO MODE** Auto mode function included, make you more convenient in operation: Winter auto mode, Summer auto mode and Hot water mode(for spring and autumn).
- 180 LITER** 180L built-in water tank with 2mm stainless steel inner and bellows heat exchanger, long service life, high thermal efficiency, 24 hours consistently hot water supply with constant temperature.
- <38dB** Super quiet owlet fan used in the outdoor unit, make the noise level below 38dB (1 meter distance).
- 70°C** Sterilize mode can supply 70°C hot water to kill the legionella in water tank , to guarantee the cleanness of water.
- WIDE SPACE** Wide space of finned heat exchanger,resistant to freeze. The design can make defrost faster once get frozen.
- SOFT START** Soft starter of compressor reduce the starting noise, protect your residential power network from over-current shock.
- TEMP. CURVE** Heating with temperature compensation curve by outdoor sensor, choose one curve that best meet your needs to save energy in maximum.

AIR SOURCE Heat Pump



KAW series

keram[®]
Makes better life for you

KERAM · GERMANY AIR SOURCE HEAT PUMP SYSTEM

KAW series

Heating/ Cooling/ Domestic hot water
Environment-friendly
Energy-saving
Low CO₂ emissions
Perform well at -25°C
Super quiet owl fan



German engineer is installing outdoor unit



Outdoor Unit (9/15 KW)



Outdoor Unit (28 KW)

Keram new generation of KAW series air source heat pump combines German advanced technology with a wealth of manufacturing experience, makes compact design as large as fridge size, including heating, cooling and supplying domestic hot water. Only one set of heat pump could meet requirements of heating, cooling and supplying domestic hot water.

The most striking feature is good performance in extreme environment temp. to -25°C. COP at -20°C can reach at 2.7. Furthermore, the intellectual controller makes the system more stable and easy to operate for users.

Sourced from bionic research of owls flying, the super quiet fan reduces the noise to the limit, making the outside unit running quietly.

KAW series air source heat pumps suit to houses, flats and small commercial building.



ISO 9001

Technical Data

Model		KAW09N3W	KAW15N3W	KAW28N3W
		KAW/S09N3W	KAW/S15N3W	KAW/S28N3W
Delivered/supplied power at A2/W35	KW	7.51/2.11	13.6/3.50	24.80/6.40
Delivered/supplied power at A-7/W35	KW	5.33/2.05	9.60/3.50	17.80/6.35
Auxiliary heater	KW	3/6/9		
Power supply		3N~400V50Hz		
Defrosting system		Hot gas defrosting		
Compressor		Scroll compressor		
Heating				
Heating medium flow (nominal)	I / S	0.45	0.7	1.2
Rated pump input	KW	0.15	0.18	0.75
Heat exchanger		Stainless steel brazed plate heat exchanger		
Max pressure heating side	MPa	0.3	0.3	0.3
Hot water				
Max hot water temperature	°C	55	55	55
Lowest operation point	°C	-25/50	-25/50	-25/50
Highest operation point	°C	35/55	35/55	35/55
Noise (Indoor unit)	dBA	40~45	42~47	48~53
Dimension outdoor unit	Length	mm	1270	1200
	Width	mm	750	1300
	Height	mm	1100	1175
Weight outdoor unit	Kg	120	130	150
Dimension indoor unit	Length	mm	640	640
	Width	mm	740	940
	Height	mm	1705	1810
Weight indoor unit		220	250	260

In accordance with EN14511.

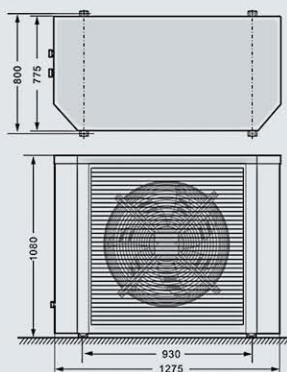
Max water temperature can reach 70°C by auxiliary heater.

KAW series include 180L built-in water tank, KAW/S series have no built-in water tank.

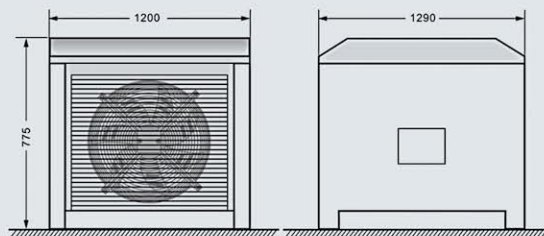
Size



Indoor Unit



Outdoor Unit (KAW9/15)



Outdoor Unit (KAW28)

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