

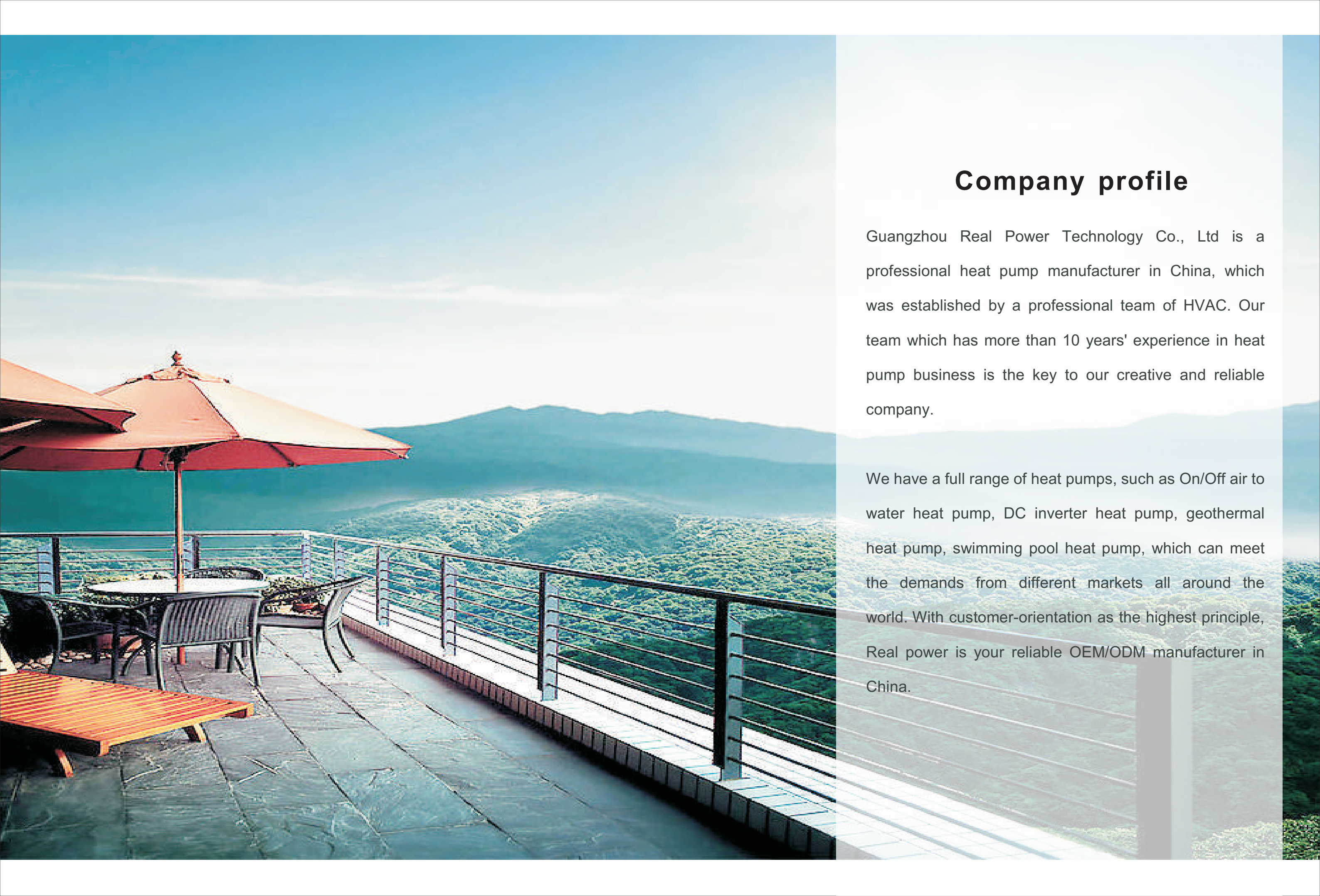


REAL POWER PRODUCT LIST

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广州芮帕科技有限公司
GUANGZHOU REAL POWER TECHNOLOGY CO., LTD



Company profile

Guangzhou Real Power Technology Co., Ltd is a professional heat pump manufacturer in China, which was established by a professional team of HVAC. Our team which has more than 10 years' experience in heat pump business is the key to our creative and reliable company.

We have a full range of heat pumps, such as On/Off air to water heat pump, DC inverter heat pump, geothermal heat pump, swimming pool heat pump, which can meet the demands from different markets all around the world. With customer-orientation as the highest principle, Real power is your reliable OEM/ODM manufacturer in China.

Why choose REAL POWER heat pump?

Economical

Real power air source heat pump makes heating your house and domestic hot water much cheaper. It saves your 60% heating cost compared with the traditional heating elements like electrical heater, gas/fuel boiler and wood-fired boiler. The reason for this is that a heat pump uses free energy from natures.

Although the heat pump can not pay you back in the first month, you will notice the benefits soon since the heating bill is dramatically lower than before. The high efficiency of real power air source heat pump makes you get back the investment faster. In fact, it saves money for you as soon as you finish the installation and cycle it on.

Energy efficient and environment friendly

By absorbing free & green energy from nature to heat your house and sanitary hot water, it produces much lower CO₂ emissions than any traditional heating system such as gas boiler and wood-fired boiler.

Wherever you live, you can install an Real Power air source heat pump and enjoy the efficient, safe, problem-free heating and hot water at a fraction of the alternative cost and a fraction of the environmental impacts.

Powerful function

One Real Power heat pump can provide you with comfortable room temperature and 24 hours' hot water.

Safe and reliable

No risk of burning, explosion, electric shock and gas poison, Real Power heat pump works reliably with more than 10 years' life span and low maintenance cost.

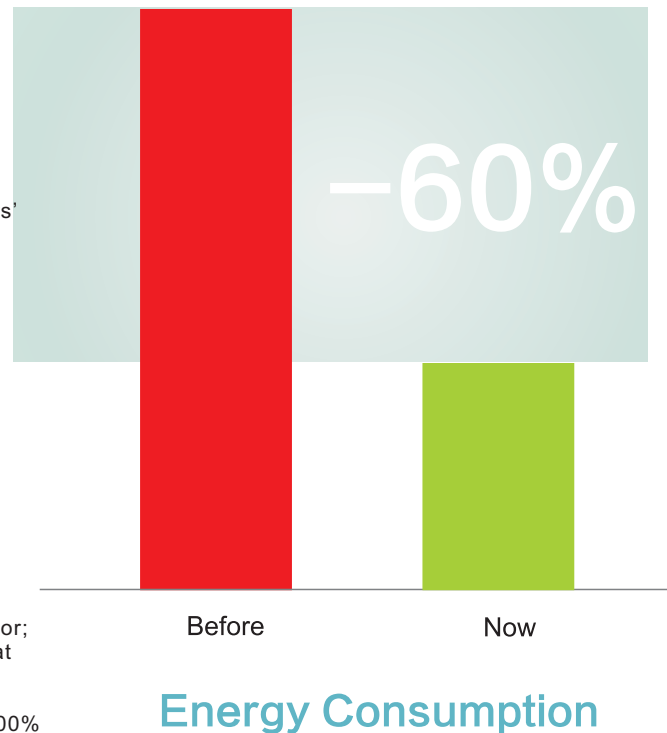
24 hours' running

Real Power heat pump can be in running for 24 hours all the year around without being affecting by the weather and varies of the season.

Exquisite workmanship and excellent quality

The main components are all from internationally famous brand (American Copelan or Japanese Panasonic compressor; Germany Wilo or Grundfos pump; Swedish SWEP plate heat exchanger; Germany Sika flow switch, etc.).

The key points are strictly monitored in the production and 100% running test is operated before the packing, to make sure that the heat pump is high quality and works reliable.



Comparisons between Real Power heat pump and other heating methods

heating methods	Real Power heat pump		Electrical heater		pipelined gas	Oil boiler	liquefied gas
	Residential electricity	commercial electricity	Residential electricity	commercial electricity	pipelined gas	light diesel oil	liquefied gas
Energy calorific value	860Kcal/KW.h	860Kcal/KW.h	860Kcal/KW.h	860Kcal/KW.h	3800 Kcal/m3	10200Kcal/kg	10800Kcal/KW.h
Annual average thermal efficiency	380%	380%	95%	95%	65%	75%	70%
Actualheating value	3268Kcal/KW.h	3268Kcal/KW.h	817Kcal/KW.h	817Kcal/KW.h	2470 Kcal/m3	7650Kcal/kg	7560Kcal/KW.h
Energy consumption to heat 1000kg of water	12.24KW.h	12.24KW.h	48.96KW.h	48.96KW.h	16.19m3	5.23kg	5.29kg
Energy price	¥0. 65/KWh	¥0. 9/KWh	¥0. 65/KWh	¥0. 9/KWh	¥2.5/m3	¥4.8/kg	¥5.4/kg
cost of 1000kg of hot water	¥7. 96	¥11. 02	¥31.82	¥44.06	¥40.48	¥25.1	¥28.57



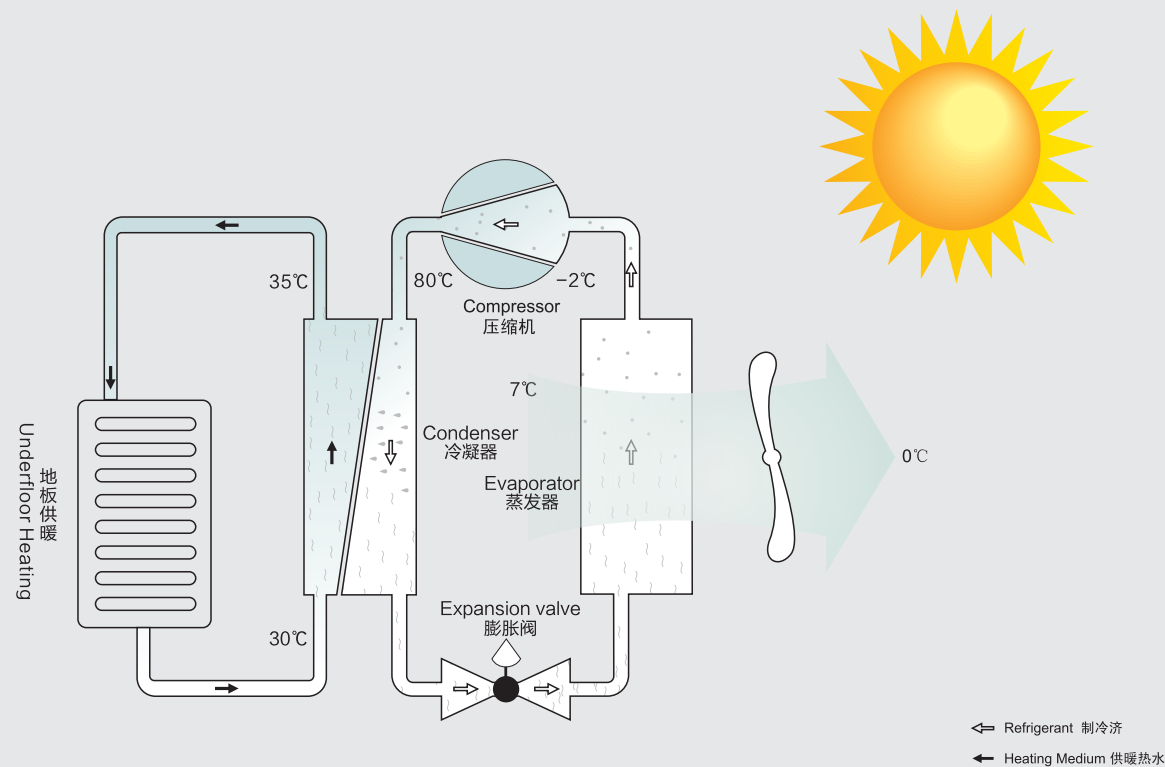
Air Source Heat Pump

How does the air source heat pump work?

The heat from the sun is stored in the air year after year so that we can get a constant source of naturally renewed energy. This stored energy is ideal heat source for your daily domestic heating demand.

The air source heat pump collects heat from the solar energy stored in the air. The heat is collected and carried by refrigerant and then converts it into high grade heat to be released to your house by underfloor heating system or radiator and into your domestic hot water tank.

- The solar energy stored in the nature can be brought up by a heat exchanger called evaporator. Here the refrigerant absorbs the solar energy and turns into very low temperature gas.
- The gas refrigerant is compressed and turns into very hot and high pressure gas, then the heat is transferred to the water-based heating system in the house by a condenser.
- Then the refrigerant reverts to low pressure liquid and is ready to collect new solar energy.



Super low noise air source heat pump



Specifications

MODEL	ESDAW	10UQ	13UQ	16UQ
Cooling Capacity	KW	9.3	12.0	15.0
Heating Capacity	KW	9.8	12.5	15.5
Compressor	Type Quantity	Scroll	Scroll	Scroll
Cooling Power Input	KW	3.1	4.0	5.0
Heating Power Input	KW	2.8	3.6	4.4
Power Supply	V/Ph/Hz	220/1/50	380/3/50	380/3/50
Water Flow	m ³ /h	1.7	2.1	2.7
Water Pressure Drop	kPa	24	28	30
Noise	dB(A)	48	53	53
Water Connections	Inch	1	1	1
Net Dimensions	mm	960*460*1400	1170*460*1400	1170*460*1400

Measurement Conditions:

Cooling: Ambient Temp.: 35°C/24°C, Water inlet/outlet Temp.: 12°C/7°C
 Heating: Ambient Temp.: 7°C/6°C, Water inlet/outlet Temp.: 40°C/45°C

Split air source heat pump



There is only refrigerant circulation inside the outdoor unit.

The indoor unit can be mounted in the bathroom, kitchen or utility room, then the heat pump will not be broken due to freezing even in the cold winter, so it works safely and reliably.



Specifications

MODEL	ESDAW	4SH	6SH	8SH
Cooling Capacity	KW	3.7	5.1	7.6
Heating Capacity	KW	4.0	5.9	8.3
Compressor	type quantity	rotary 1	rotary 1	rotary 1
Cooling Power Input	KW	1.2	1.6	2.5
Heating Power Input	KW	1.1	1.6	2.3
Power Supply	V/Ph/Hz	220/1/50	220/1/50	220/1/50
Water Flow	m ³ /h	0.8	1.0	1.4
Water Pressure Drop	kPa	18	20	22
Noise	dB(A)	48	48	52
Water Connections	Inch	3/4"	3/4"	3/4"
Outdoor Unit Dimensions	mm	780*258*540	840*285*610	830*310*710
Indoor Unit Dimensions	mm	400*170*580	400*170*580	400*170*580

Specifications

MODEL	ESDAW	11SH	14SH	16SH
Cooling Capacity	KW	9.8	12.1	14.8
Heating Capacity	KW	11.0	13.7	15.9
Compressor	type quantity	scroll 1	scroll 1	scroll 1
Cooling Power Input	KW	3.3	4.0	4.9
Heating Power Input	KW	3.1	3.9	4.5
Power Supply	V/Ph/Hz	220/1/50	380/3/50	380/3/50
Water Flow	m ³ /h	1.9	2.4	2.7
Water Pressure Drop	kPa	24	28	30
Noise	dB(A)	58	58	58
Water Connections	Inch	1	1	1
Outdoor Unit Dimensions	mm	880*360*800	830*310*1260	930*390*1270
Indoor Unit Dimensions	mm	400*170*580	400*170*820	400*170*820

Measurement Conditions:
 Cooling: Ambient Temp.: 35°C/24°C, Water inlet/outlet Temp.: 12°C/7°C
 Heating: Ambient Temp.: 7°C/6°C, Water inlet/outlet Temp.: 40°C/45°C

Integrated air source heat pump



Integrated design,
Easy to install;
Only need to connect the water circulation;
Only need to be electrified to start running;



Specifications

MODEL	ESDAW	4CH	6CH	8CH
Cooling Capacity	KW	3.7	5.1	7.6
Heating Capacity	KW	4.0	5.9	8.3
Compressor	Type	Rotary	Rotary	Rotary
	Quantity	1	1	1
Cooling Power Input	KW	1.2	1.6	2.5
Heating Power Input	KW	1.1	1.6	2.3
Power Supply	V/Ph/Hz	220/1/50	220/1/50	220/1/50
Water Flow	m ³ /h	0.8	1.0	1.4
Water Pressure Drop	kPa	18	20	22
Noise	dB(A)	48	48	52
Water Connections	Inch	3/4"	3/4"	3/4"
Net Dimensions	mm	750*265*500	930*280*550	1000*300*620

Specifications

MODEL	ESDAW	11CH	14CH	16CH
Cooling Capacity	KW	9.8	12.1	14.8
Heating Capacity	KW	11.0	13.7	15.9
Compressor	Type	Scroll	Scroll	Scroll
	Quantity	1	1	1
Cooling Power Input	KW	3.3	4.0	4.9
Heating Power Input	KW	3.1	3.9	4.5
Power Supply	V/Ph/Hz	220/1/50	380/3/50	380/3/50
Water Flow	m ³ /h	1.9	2.4	2.7
Water Pressure Drop	kPa	24	28	30
Noise	dB(A)	58	58	58
Water Connections	Inch	1	1	1
Net Dimensions	mm	1108*460*690	1108*460*1250	1108*460*1250

Modular air source heat pump



Strong capacity;

Modular installation;

Applicable to the industrial and commercial buildings, such as hospital, school, office building, living quarters etc.



Specifications

MODEL	ESDAW	21CV	27CV	34CV	42CV
Cooling Capacity	KW	19.8	25.1	31.0	40.0
Heating Capacity	KW	21.0	27.0	33.5	42.0
Compressor	type quantity	scroll 2	scroll 2	scroll 2	scroll 2
Cooling Power Input	KW	6.6	8.4	10.3	13.0
Heating Power Input	KW	6.0	7.7	9.6	12.3
Power Supply	V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50
Water Flow	m ³ /h	3.6	4.6	5.8	7.2
Water Pressure Drop	kPa	33	35	40	42
Noise	dB(A)	60	60	60	60
Water Connections	Inch	1	1	1-1/4"	1-1/4"
Net Dimensions	mm	1470*735*990	1470*735*990	1470*735*990	1660*960*1225

Specifications

MODEL	ESDAW	55CV	65CV	80CV	110CV
Cooling Capacity	KW	52	61	76	102
Heating Capacity	KW	55	65	80	110
Compressor	type quantity	scroll 2	scroll 2	scroll 3	scroll 3
Cooling Power Input	KW	17.3	21.1	25.3	34.0
Heating Power Input	KW	15.7	18.8	22.9	31.4
Power Supply	V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50
Water Flow	m ³ /h	9.5	11.2	13.8	18.9
Water Pressure Drop	kPa	44	46	50	55
Noise	dB(A)	60	62	68	71
Water Connections	Inch	1-1/2"	1-1/2"	2	2.5
Net Dimensions	mm	1660*960*1225	1660*960*1225	2190*1437*2056	2190*1437*2056

Measurement Conditions:

Cooling: Ambient Temp.: 35°C/24°C, Water inlet/outlet Temp.: 12°C/7°C

Heating: Ambient Temp.: 7°C/6°C, Water inlet/outlet Temp.: 40°C/45°C