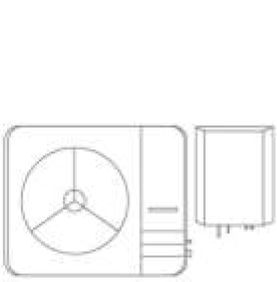
AOKOL

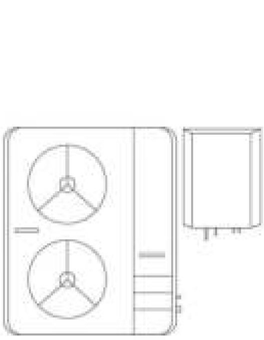
AOKOL

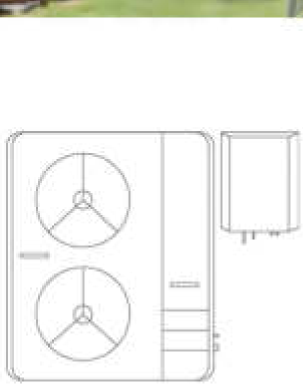
HEAT PUMP

DC Inverter Air to Water Heat Pump

Luft-/ Wasser-Wärmepumpen | Pompe à chaleur Air / Eau







R32

Company profile

NINGBO AOKOL HEAT PUMP TECHNOLOGY CO., LTD. is a high-tech Enterprise Specialized in Researching, Manufa-cturing and Selling Air to Water Heat Pumps and Split Air Conditioners. The Factory Locates in the Home Appli-ance Manufacturing Base of China and Sea Port city-Ningbo.

NINGBO AOKOL HEAT PUMP TECHNOLOGY CO., LTD. Owns the BV&TUV approved -35°C Low Temperature Air to Water Heat Pump Laboratory & Air Conditioner Enthalpy Difference Laboratory and Improved Production Testing Equipment.

1 . Brand culture

The success of the enterprise comes from the efforts of every employee

A company that satisfies its customers and makes its employees proud

Committed to protecting the environment and maintaining ecological balance, human sustainable development

The core ideas

2 . Brand vision

Pursue higher product quality, service quality and work quality

Create a first-class brand and become a global trusted brand

To be a leading brand that promotes industry progress


AOKOL
INVERTER

UNDER FLOOR HEATING

The low-temperature ground heat medium forms a gradually decreasing temperature gradient from the sole of the feet to the head indoors, thus giving people a comfortable feeling of warm feet and cool head. Floor radiant heating is in line with the fitness theory of "warming feet and cooling at the top" of traditional Chinese medicine. It is the most comfortable way of heating and a symbol of modern quality of life.

INNOVATIVE DESIGN FOR LOWER NOISE LEVEL

The use of inverter compressors in outdoor units and the extremely quiet operation ensure full comfort when using the AOKOL heat pumps. The compact design of the outdoor unit with high performance and lower noise level.

WEATHER-RESPONSIVE CONTROL

Climate curves

·The water temperature is automatically adjusted based on the outside temperature.

·32 meteorological temperature curves are set as standard. Custom curves are also available to meet varying temperature requirements.

WIFI CONTROL AS STANDARD

AOKOL products incorporate several features improving the comfort of use; for example, new control options have been added so that managing a heat pump has never been so convenient and simple.

·Remote control using an application on a smartphone or tablet

·Monitoring of current device status，zone switching supply and domestic hot water temperature control

·Displaying error information

·Displaying current energy consumption

SAFETY OF USE

The task of the intelligent automation system is to protect the heat pump against damage. The use of special explosion-proof electronic systems maximizes operational safety, allowing the stable use of ecological R32 refrigerant, which is not only particularly environmentally friendly but also more efficient under extreme conditions.

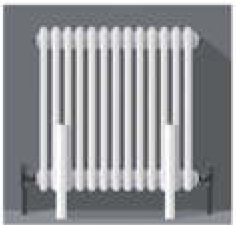
Air to Water Heat Pump
Comfortable Heating、Hot Water and Cooling

In winter heating, a variety of terminal devices can be connected to realize a variety of heating modes, which are floor heating, radiator, central air conditioning, floor heating + radiator + central air conditioning intelligent operation mode. Adopts the mode of floor heating + radiator + central air conditioning, which can be heated up quickly. and radiator maintain the appropriate indoor temperature.

35℃

Floor Heating

55℃



Radiator Heating

60℃

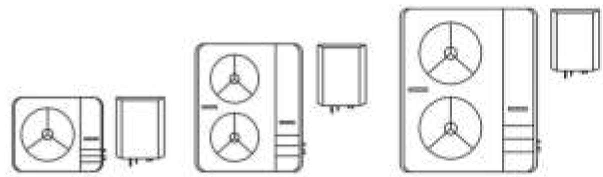
Domestic Hot Water

7℃

Fan Coil Cooling

SPLITIS A SET OF:

OUTDOOR UNIT AND INDOOR UNIT



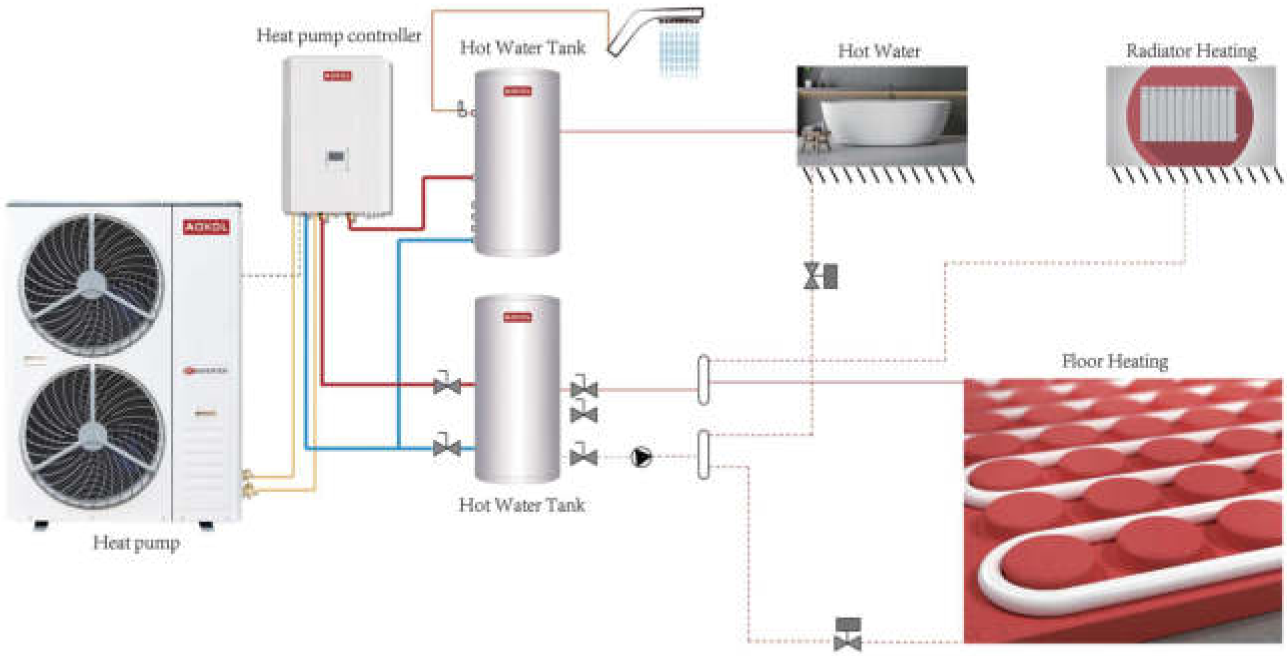
The design of the device, consisting of an indoor and outdoor unit requires specialist installation carried out by an installer qualified to work with refrigerant gases. The advantage of this solution is that there is no risk of the heating medium freezing in case of power failure. Unlike Monoblock pumps the unit outside the building uses non-freezing refrigerant.

Heating systems with a future

As system experts, we have been developing top-quality products for a long time. Whether regenerative or traditionally operated-our heating systems are solid modular networked and perfectly coordinated. With this we set standards in Heating technology. We value holistic personal advice and ensure with our comprehensive service for tailor-made sustainable solutions.

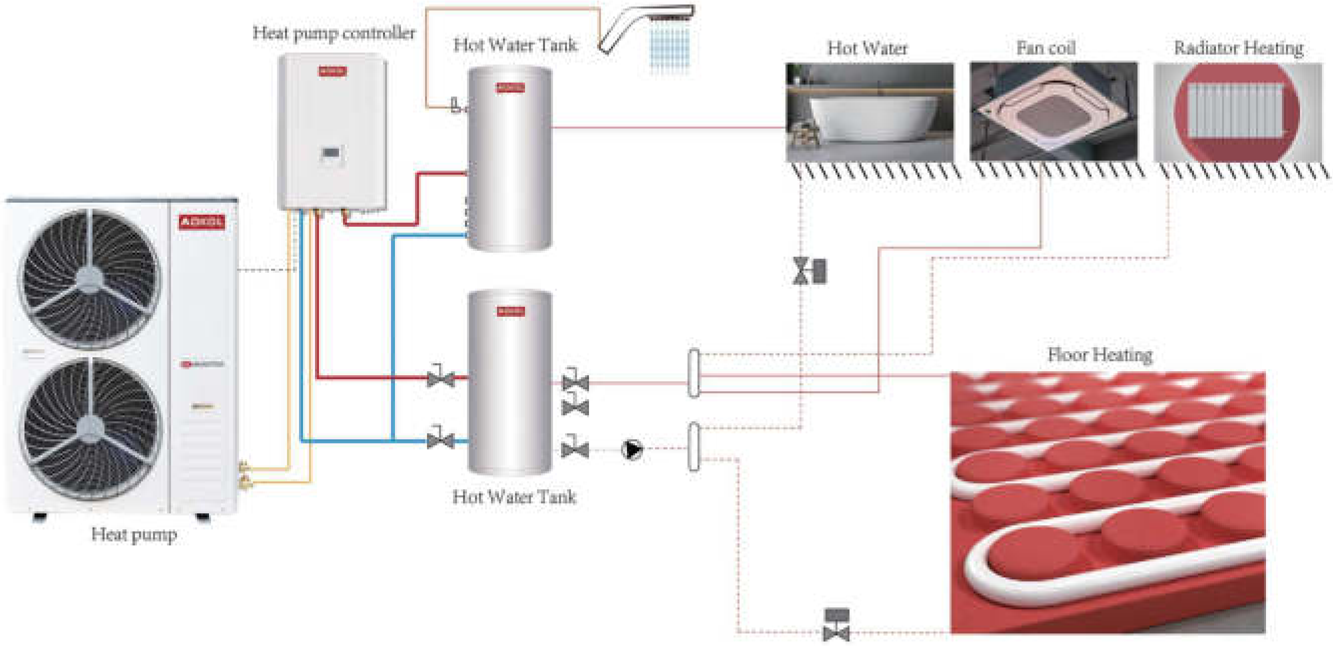
AOKOL products are available in two colors

Heating & Hot Water System Diagram



- networked, efficient, future-proof
- optionally with external or internal heat pump unit
- highly efficient thanks to speed control and inverter technology
- convenient thanks to the AOKOL controller
- with Internet interface as standard
- light and compact design

Heating & Hot Water & Cooling System Diagram



★ Split Model、Heating & Hot Water & Cooling Type、Indoor Unit and Outdoor Unit be Connected by Copper pipe、Instaled With Simple、Flexible and Conveniently、The Indoor Unit can be Installed in Kitchen、Bathroom or basement、Ensuring less Energy loss、Also Prevent Water Pipes From Freezing in Cold Winter and sun Exposure in hot Summer.

Full DC Inverter Mode

Low Ambient -35°C Temperature
Strong Heating & Hot Water

EVI DC INVERTER COMPRESSOR

Panasonic brand DC inverter EVI low temperature compressor R32 refrigerant, based on maintaining the high reliability of DC frequency conversion, increasing the heating capacity more than 20% in low-temperature environment and meet the low-temperature heating requirement in winter.

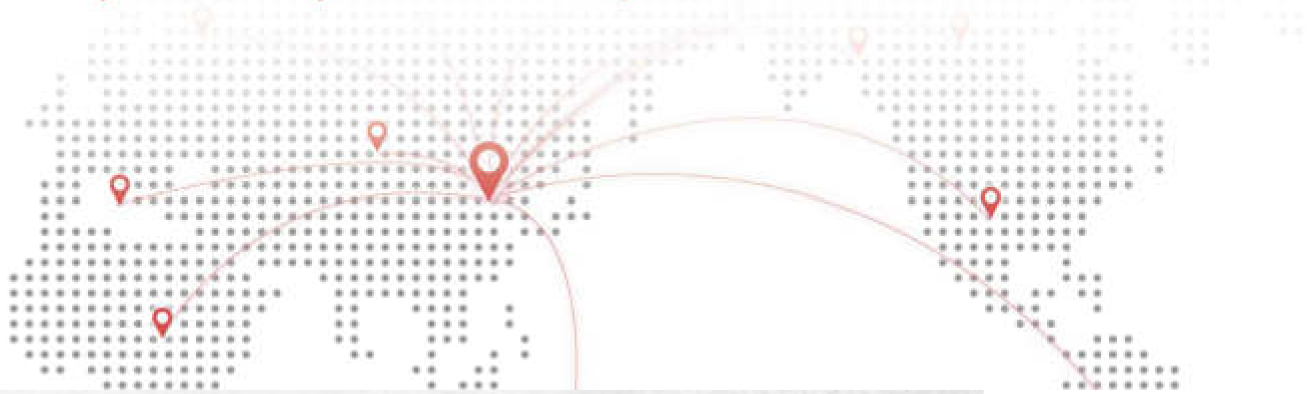
DC INVERTER FAN MOTOR

Dc frequency conversion fan motor, according to the system running status, real-time, step less speed regulation, reduce energy consumption. Large diameter and low noise fan blades reducing operating noise and ensure that the system is always in the optimal running state.

DC INVERTER DRIVER BOARD

The MITSUBISHI ELECTRIC brand intelligent IPM frequency conversion chip achieves automatic adjustment of compressor high-frequency and low-frequency operating, intelligent control, and comprehensively improves system stability and energy efficiency.

14 years widly used in Europe

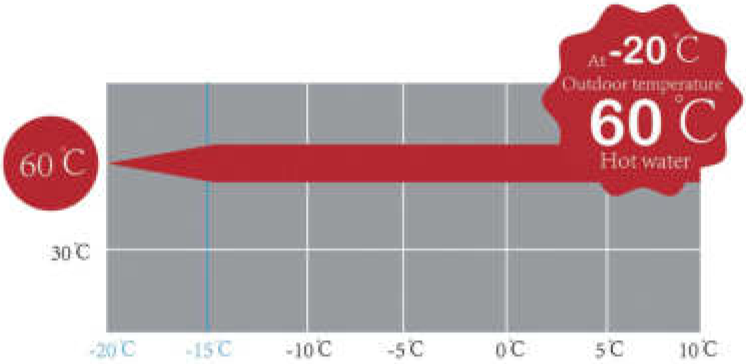


Powerful Heating Performance High Efficiency

The Optimization of DC Inverter Technology, EVI Low Temperature Technology and Refrigerant and Control System has Improved Energy Efficiency and Achieved High Performance and High Efficiency. Even at Lower Ambient Temperature, Higher Outlet Water Temperature and Higher Heating Capacity can be Achieved. Higher Water Temperature can Guarantee Room Temperature in Cold Areas.

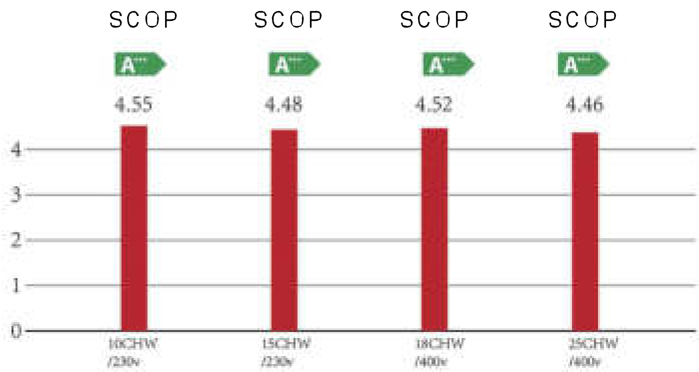
High Water Temperature

Outdoor Heating in Low Temperature Environment of -20℃, Without Using electric Auxiliary Heating device, the Maximum Water Temperature can Reach 60℃.



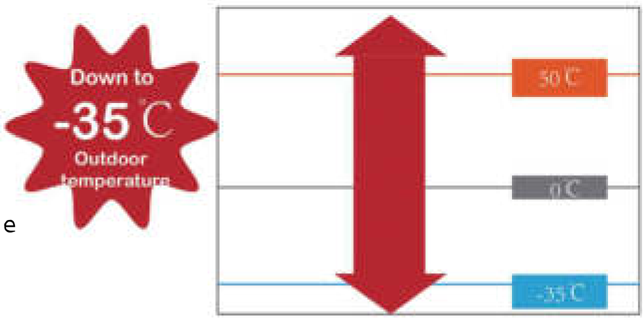
High SCOP

According to EN14825, the data was tested in SGS approved AOKOL low temperature air to water heat pump laboratory. And issue ErP energy efficiency grade certificate.



Wide Range Operation

EVI Low Temperature DC Inverter Compressor, enlarged Heat Exchanger, Optimized System Design, Reliable Heating at Outdoor Temperature -35℃, Reliable Cooling at Outdoor Temperature of 50℃.



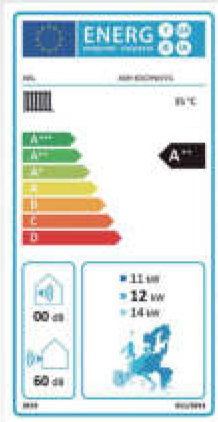
Information about energy efficiency.

- has been valid throughout Europe since September 262015*
- for heat generators up to 30 kW and storage tanks up to 500 liters
- shows the energy efficiency: in nine efficiency classes from A+++to G

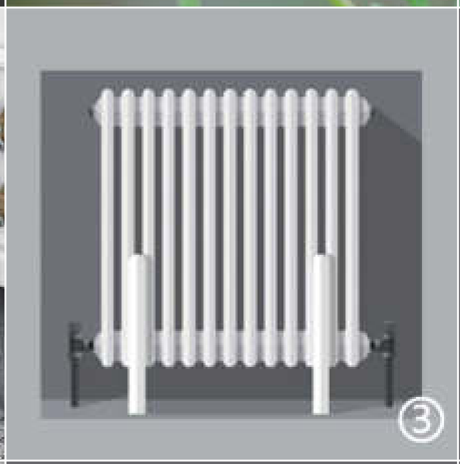
More efficient in the AOKOL system.

- You can rely on our highly efficient and pre-labeled systems
- Switch to our energy-efficient condensing technology now
- Always pay attention to the investment and life cycle costs

Further information at www.aklhp.enalibaba.com



Split Type Heat Pump



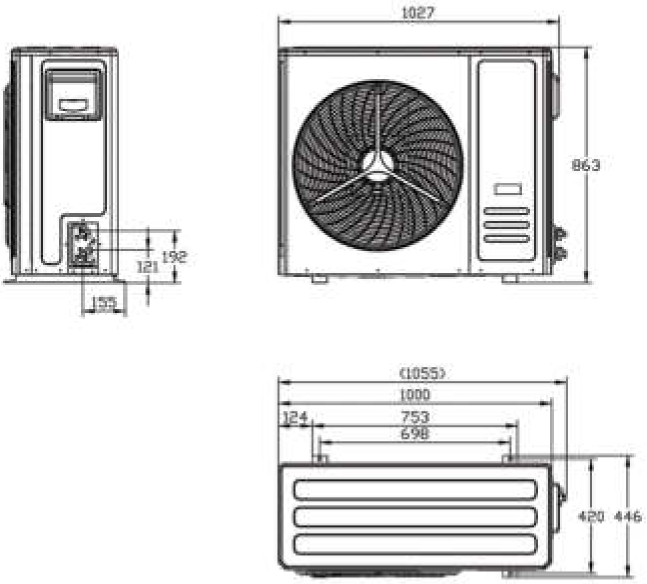
①、Heat pump
②、Heat pump controller
③、Radiator Heating
④、Hot Water
⑤、Central air-conditioning
⑥、Floor heating

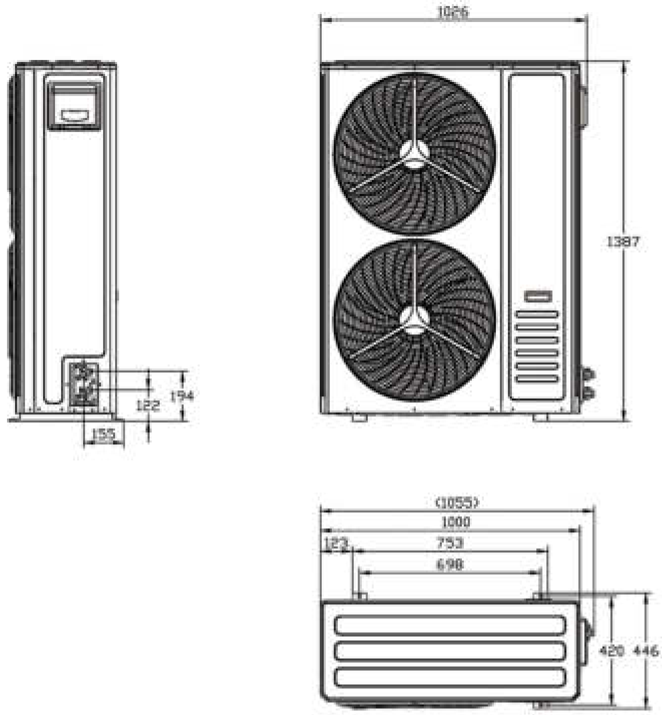
Model		ASH-35CHW/FR	ASH-55CHW/FR	ASH-65CHW/FR	ASH-85CHW/FR	ASH-105CHW/FR
Power Supply		230V/50Hz	230V/50Hz	400V/50Hz	400V/50Hz	400V/50Hz
ErP Level (35°C)		A+++	A+++	A+++	A+++	A+++
ErP Level (55°C)		A++	A++	A++	A++	A++
Heating (1)	Heating Capacity Range (7°C/35°C)	3.5~10kW	5.3~15kW	5.8~18kW	9.4~25kW	11.2~30kW
	Heating Power Input Range	0.75~2.39kW	1.09~3.53kW	1.22~4.3kW	1.95~5.95kW	2.34~7.18kW
	Heating Current Input Range	3.4~10.8A	4.95~16A	1.96~6.9A	3.13~9.5A	3.75~11.5A
Heating (2)	Heating Capacity Range (7°C/55°C)	3.2~8.8kW	4.8~13.2kW	5.5~16kW	8.5~22.5kW	10.5~27kW
	Heating Power Input Range	1.16~3.5kW	1.75~5.28kW	2.03~6.45kW	3.15~8.89kW	3.93~11kW
	Heating Current Input Range	5.27~15.9A	7.95~24A	3.26~10.3A	5.05~14.3A	6.3~17.6A
Cooling	Cooling Capacity Range (35°C/7°C)	3.2~7kW	5.5~11kW	6.2~12kW	9.4~18kW	13.8~23kW
	Cooling Power Input Range	1.12~2.66kW	1.92~4.15kW	2.18~4.56kW	3.42~6.98kW	5.17~9.13kW
	Cooling Current Input Range	5.09~12.1A	8.72~18.9A	3.5~7.3A	5.48~11.2A	8.3~14.6A
Max.Rated Input Power		4kW/h	6.3kW/h	7.5kW/h	10.3kW/h	12.8kW/h
Max.Rated Input Current		17A	28A	11A	16.5A	21A
Shockproof Class		I	I	I	I	I
Wateroof Class		IPX4	IPX4	IPX4	IPX4	IPX4
Max.Pressure at high Pressure Side		4.2Mpa	4.2Mpa	4.2Mpa	4.2Mpa	4.2Mpa
Max.Pressure at low Pressure Side		2.2Mpa	2.2Mpa	2.2Mpa	2.2Mpa	2.2Mpa
Exchanger Max.operating		4.2Mpa	4.2Mpa	4.2Mpa	4.2Mpa	4.2Mpa
Water Flowrate		1.20m^3/h	1.89m^3/h	2.06m^3/h	3.10m^3/h	3.96m^3/h
Refrigerant Type / Input		R32 /1.5kg	R32 /2.3kg	R32 /2.3kg	R32 /3.5kg	R32 /3.8kg
CO2 Equivalent		1.02Tonnes	1.56Tonnes	1.56Tonnes	2.37Tonnes	2.57Tonnes
Heating & Hot Water Temp		30℃~60℃	30℃~60℃	30℃~60℃	30℃~60℃	30℃~60℃
Cooling Water Temp		7℃~30℃	7℃~30℃	7℃~30℃	7℃~30℃	7℃~30℃
Outdoor Temperature limit		-35℃~50℃	-35℃~50℃	-35℃~50℃	-35℃~50℃	-35℃~50℃
Indoor Unit	Auxiliary Heating Power Input	3kW	3kW	3kW	3kW	3kW
	Water Connection	1.2Inch / DN32	1.2Inch/DN32	1.2Inch/DN32	1.2Inch/DN32	1.2Inch/DN32
	Copper Pipe Connection	1/2"&3/4"	1/2"&3/4"	1/2"&3/4"	1/2"&3/4"	1/2"&3/4"
	Noise Level	33dB(A)	35dB(A)	35dB(A)	35dB(A)	35dB(A)
	Net Weight/Gross Weight	47kg / 56kg	50kg / 58kg	50kg / 58kg	58kg /68kg	60kg / 70kg
	Net Dimension(W*D*H)	590*430*890mm	590*430*890mm	590*430*890mm	590*430*890mm	590*430*890mm
	Packing Dimension(W*D*H)	610*450*930mm	610*450*930mm	610*450*930mm	610*450*930mm	610*450*930mm
Outdoor Unit	Noise Level	56dB(A)	57dB(A)	58dB(A)	60dB(A)	62dB(A)
	Net Weight/Gross Weight	80kg / 90kg	112kg / 122kg	112kg / 122kg	146kg / 158kg	156kg / 168kg
	Net Dimension(W*D*H)	1000x390x860mm	1000x390x1385mm	1000x390x1385mm	1240*430*1560mm	1240*430*1560mm
	Packing Dimension(W*D*H)	1120*480*1010mm	1120*480*1525mm	1100*480*1525mm	1346*510*1700mm	1346*510*1700mm
Date of Manufacture		See bar code	See bar code	See bar code	See bar code	See bar code

The technical data above is compliant with the guidelines specified in the following standards: EN14511, EN14825;
The SCOP seasonal heating efficiency was determined for temperate climate conditions.

Dimensions of the devices

Outdoor Unit

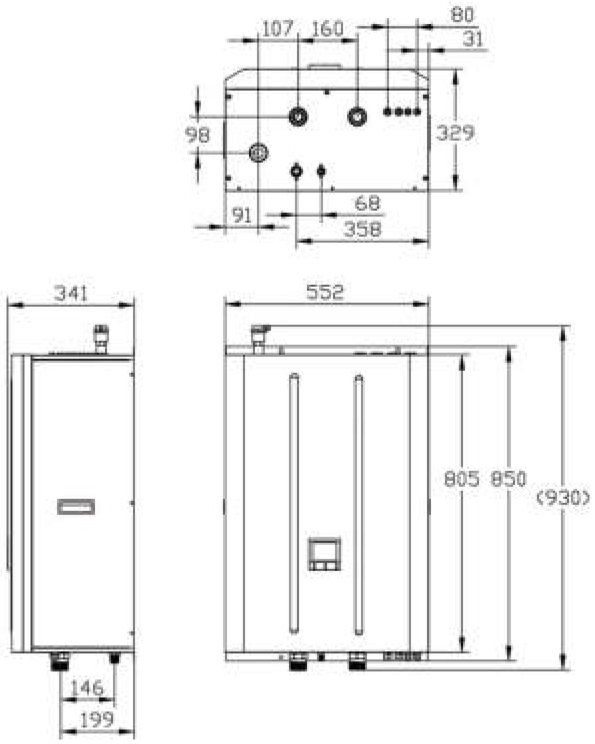


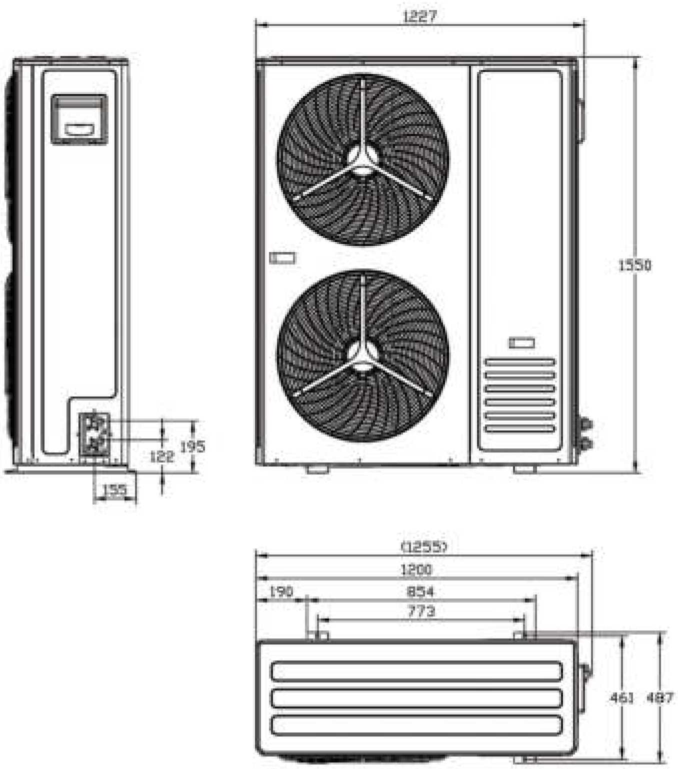


ASH-35CHW/FR

ASH-55(65)CHW/FR

Split indoor unit (hydraulic module)





ASH-85(105)CHW/FR

MODOL:ASH-35CHW/FR

Model		ASH-35CHW/FR
Power Supply		230V/50Hz
ErP Level (35°C)		A+++
ErP Level (55°C)		A++
Heating (1)	Heating Capacity Range (7°C/35°C)	3.5~10kW
	Heating Power Input Range	0.75~2.39kW
	Heating Current Input Range	3.4~10.8A
Heating (2)	Heating Capacity Range (7°C/55°C)	3.2~8.8kW
	Heating Power Input Range	1.16~3.5kW
	Heating Current Input Range	5.27~15.9A
Cooling	Cooling Capacity Range (35°C/7°C)	3.2~7kW
	Cooling Power Input Range	1.12~2.66kW
	Cooling Current Input Range	5.09~12.1A
Max.Rated Input Power		4kW/h
Max.Rated Input Current		17A
Shockproof Class		I
Wateroof Class		IPX4
Max.Pressure at high Pressure Side		4.2Mpa
Max.Pressure at low Pressure Side		2.2Mpa
Exchanger Max.operating		4.2Mpa
Water Flowrate		1.20m³/h
Refrigerant Type / Input		R32 /1.5kg
CO2 Equivalent		1.02Tonnes
Heating & Hot Water Temp		30℃~60℃
Cooling Water Temp		7℃~30℃
Outdoor Temperature limit		-35℃~50℃
Indoor Unit	Auxiliary Heating Power Input	3kW
	Water Connection	1.2Inch / DN32
	Copper Pipe Connection	1/2"&3/4"
	Noise Level	33dB(A)
	Net Weight/Gross Weight	47kg / 56kg
	Net Dimension(W*D*H)	590*430*890mm
	Packing Dimension(W*D*H)	610*450*930mm
Outdoor Unit	Noise Level	56dB(A)
	Net Weight/Gross Weight	80kg / 90kg
	Net Dimension(W*D*H)	1000x390x860mm
	Packing Dimension(W*D*H)	1120*480*1010mm
Date of Manufacture		See bar code

The technical data above is compliant with the guidelines specified in the following standards: EN14511, EN14825;
The SCOP seasonal heating efficiency was determined for temperate climate conditions.

MODOL:ASH-55CHW/FR

Model		ASH-55CHW/FR
Power Supply		230V/50Hz
ErP Level (35°C)		A+++
ErP Level (55°C)		A++
Heating (1)	Heating Capacity Range (7°C/35°C)	5.3~15kW
	Heating Power Input Range	1.09~3.53kW
	Heating Current Input Range	4.95~16A
Heating (2)	Heating Capacity Range (7°C/55°C)	4.8~13.2kW
	Heating Power Input Range	1.75~5.28kW
	Heating Current Input Range	7.95~24A
Cooling	Cooling Capacity Range (35°C/7°C)	5.5~11kW
	Cooling Power Input Range	1.92~4.15kW
	Cooling Current Input Range	8.72~18.9A
Max.Rated Input Power		6.3kW/h
Max.Rated Input Current		28A
Shockproof Class		I
Wateroof Class		IPX4
Max.Pressure at high Pressure Side		4.2Mpa
Max.Pressure at low Pressure Side		2.2Mpa
Exchanger Max.operating		4.2Mpa
Water Flowrate		1.89m³/h
Refrigerant Type / Input		R32 /2.3kg
CO2 Equivalent		1.56Tonnes
Heating & Hot Water Temp		30℃~60℃
Cooling Water Temp		7℃~30℃
Outdoor Temperature limit		-35℃~50℃
Indoor Unit	Auxiliary Heating Power Input	3kW
	Water Connection	1.2Inch/DN32
	Copper Pipe Connection	1/2"&3/4"
	Noise Level	35dB(A)
	Net Weight/Gross Weight	50kg / 58kg
	Net Dimension(W*D*H)	590*430*890mm
	Packing Dimension(W*D*H)	610*450*930mm
Outdoor Unit	Noise Level	57dB(A)
	Net Weight/Gross Weight	112kg / 122kg
	Net Dimension(W*D*H)	1000x390x1385mm
	Packing Dimension(W*D*H)	1120*480*1525mm
Date of Manufacture		See bar code

The technical data above is compliant with the guidelines specified in the following standards: EN14511, EN14825;
The SCOP seasonal heating efficiency was determined for temperate climate conditions.

MODOL:ASH-65CHW/FR

Model		ASH-65CHW/FR
Power Supply		400V/50Hz
ErP Level (35°C)		A+++
ErP Level (55°C)		A++
Heating (1)	Heating Capacity Range (7°C/35°C)	5.8~18kW
	Heating Power Input Range	1.22~4.3kW
	Heating Current Input Range	1.96~6.9A
Heating (2)	Heating Capacity Range (7°C/55°C)	5.5~16kW
	Heating Power Input Range	2.03~6.45kW
	Heating Current Input Range	3.26~10.3A
Cooling	Cooling Capacity Range (35°C/7°C)	6.2~12kW
	Cooling Power Input Range	2.18~4.56kW
	Cooling Current Input Range	3.5~7.3A
Max.Rated Input Power		7.5kW/h
Max.Rated Input Current		11A
Shockproof Class		I
Wateroof Class		IPX4
Max.Pressure at high Pressure Side		4.2Mpa
Max.Pressure at low Pressure Side		2.2Mpa
Exchanger Max.operating		4.2Mpa
Water Flowrate		$2.06m^3/h$
Refrigerant Type / Input		R32 /2.3kg
CO_2 Equivalent		1.56Tonnes
Heating & Hot Water Temp		30℃~60℃
Cooling Water Temp		7℃~30℃
Outdoor Temperature limit		-35℃~50℃
Indoor Unit	Auxiliary Heating Power Input	3kW
	Water Connection	1.2Inch/DN32
	Copper Pipe Connection	1/2"&3/4"
	Noise Level	35dB(A)
	Net Weight/Gross Weight	50kg / 58kg
	Net Dimension(W*D*H)	590*430*890mm
	Packing Dimension(W*D*H)	610*450*930mm
Outdoor Unit	Noise Level	58dB(A)
	Net Weight/Gross Weight	112kg / 122kg
	Net Dimension(W*D*H)	1000x390x1385mm
	Packing Dimension(W*D*H)	1100*480*1525mm
Date of Manufacture		See bar code

The technical data above is compliant with the guidelines specified in the following standards: EN14511、EN14825;
The SCOP seasonal heating efficiency was determined for temperate climate conditions.

MODOL:ASH-85CHW/FR

Model		ASH-85CHW/FR
Power Supply		400V/50Hz
ErP Level (35°C)		A+++
ErP Level (55°C)		A++
Heating (1)	Heating Capacity Range (7°C/35°C)	9.4~25kW
	Heating Power Input Range	1.95~5.95kW
	Heating Current Input Range	3.13~9.5A
Heating (2)	Heating Capacity Range (7°C/55°C)	8.5~22.5kW
	Heating Power Input Range	3.15~8.89kW
	Heating Current Input Range	5.05~14.3A
Cooling	Cooling Capacity Range (35°C/7°C)	9.4~18kW
	Cooling Power Input Range	3.42~6.98kW
	Cooling Current Input Range	5.48~11.2A
Max.Rated Input Power		10.3kW/h
Max.Rated Input Current		16.5A
Shockproof Class		I
Wateroof Class		IPX4
Max.Pressure at high Pressure Side		4.2Mpa
Max.Pressure at low Pressure Side		2.2Mpa
Exchanger Max.operating		4.2Mpa
Water Flowrate		3.10m³/h
Refrigerant Type / Input		R32 /3.5kg
CO2 Equivalent		2.37Tonnes
Heating & Hot Water Temp		30℃~60℃
Cooling Water Temp		7℃~30℃
Outdoor Temperature limit		-35℃~50℃
Indoor Unit	Auxiliary Heating Power Input	3kW
	Water Connection	1.2Inch/DN32
	Copper Pipe Connection	1/2"&3/4"
	Noise Level	35dB(A)
	Net Weight/Gross Weight	58kg /68kg
	Net Dimension(W*D*H)	590*430*890mm
	Packing Dimension(W*D*H)	610*450*930mm
Outdoor Unit	Noise Level	60dB(A)
	Net Weight/Gross Weight	146kg / 158kg
	Net Dimension(W*D*H)	1240*430*1560mm
	Packing Dimension(W*D*H)	1346*510*1700mm
Date of Manufacture		See bar code

The technical data above is compliant with the guidelines specified in the following standards: EN14511, EN14825;
The SCOP seasonal heating efficiency was determined for temperate climate conditions.

MODOL:ASH-105CHW/FR

Model		ASH-105CHW/FR
Power Supply		400V/50Hz
ErP Level (35°C)		A+++
ErP Level (55°C)		A++
Heating (1)	Heating Capacity Range (7°C/35°C)	11.2~30kW
	Heating Power Input Range	2.34~7.18kW
	Heating Current Input Range	3.75~11.5A
Heating (2)	Heating Capacity Range (7°C/55°C)	10.5~27kW
	Heating Power Input Range	3.93~11kW
	Heating Current Input Range	6.3~17.6A
Cooling	Cooling Capacity Range (35°C/7°C)	13.8~23kW
	Cooling Power Input Range	5.17~9.13kW
	Cooling Current Input Range	8.3~14.6A
Max.Rated Input Power		12.8kW/h
Max.Rated Input Current		21A
Shockproof Class		I
Wateroof Class		IPX4
Max.Pressure at high Pressure Side		4.2Mpa
Max.Pressure at low Pressure Side		2.2Mpa
Exchanger Max.operating		4.2Mpa
Water Flowrate		3.96m³/h
Refrigerant Type / Input		R32 /3.8kg
CO2 Equivalent		2.57Tonnes
Heating & Hot Water Temp		30℃~60℃
Cooling Water Temp		7℃~30℃
Outdoor Temperature limit		-35℃~50℃
Indoor Unit	Auxiliary Heating Power Input	3kW
	Water Connection	1.2Inch/DN32
	Copper Pipe Connection	1/2"&3/4"
	Noise Level	35dB(A)
	Net Weight/Gross Weight	60kg / 70kg
	Net Dimension(W*D*H)	590*430*890mm
	Packing Dimension(W*D*H)	610*450*930mm
Outdoor Unit	Noise Level	62dB(A)
	Net Weight/Gross Weight	156kg / 168kg
	Net Dimension(W*D*H)	1240*430*1560mm
	Packing Dimension(W*D*H)	1346*510*1700mm
Date of Manufacture		See bar code

The technical data above is compliant with the guidelines specified in the following standards: EN14511、EN14825;
The SCOP seasonal heating efficiency was determined for temperate climate conditions.