暨德®

AIR SOURCE HEAT PUMP WATER HEATER

GUANGDONG SHUNDE MING YE IMPORT & EXPORT CO.,LTD

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Guangdong Shunde Mingye Import & Export Co., Ltd.

Guangdong Shunde Mingye Import & Export Co., Ltd. was established in 2004, specializing in the import and export business of various commodities and technologies, in line with the purpose of "law-abiding operation, credit first, dedication and excellence", to provide customers at home and abroad with quality one-stop services for the procurement of goods, the main products include residential/commercial heat pump hot water units, heating units, industrial and agricultural drying units, auto parts, furniture and accessories, hardware, electrical appliances, light industrial textile products, garments, mechanical equipment and spare parts, etc. Our products are exported to Europe, America, Southeast Asia, the Middle East, Hong Kong, Australia, Taiwan and other countries and regions. For ten consecutive years, the company has been awarded the " Guangdong Province contract-abiding and trustworthy enterprise", and for ten consecutive years, it has been awarded the "ISO9001 quality management system certification".

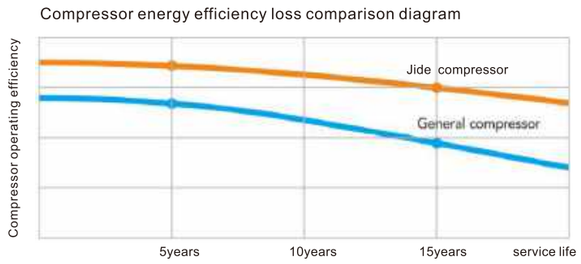
HIGH-END CONFIGURATION
INTERNATIONAL QUALITY

Jide air source Heat Pump Water heater pursues the perfect detail. The main accessories (including cables) all use listed company products, product performance is stable and reliable.

BRAND SPECIAL COMPRESSOR

Low noise Energysaving Powerful Durable

Compressor energy efficiency loss comparison diagram



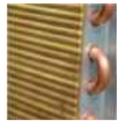
STRIVE FOR PERFECTION AND PERFECT DETAILS

Well-known brand electronic expansion valve

SAGINOMIYA/SANHUA electronic expansion valve is driven by 0~500 level CNC stepping precisicn motor; Wide control precision adjustment range to ensure the best throttling effect.

Famous brand four-way directional valve

SAGINOMIYA/SANHUA four-way valve; Efficient and sensitive operation, fast defrosting.



Titanium casing

Heat exchanger, hydrophilicity can be doubled improved; Heat transfer efficiency improved significantly;Acid resistant, longer service life.

Internally threaded copper tubes

The inner surface of the internally threaded copper pipe is designed with a groove, which increases the contact area with the refrigerant, so that the heat exchange performance and thermal conductivity of the heat exchanger are better

SPLIT TYPE HEAT PUMP

PRODUCT INTRODUCTION

- High energy efficiency
- Easy to install and maintain
- Intelligent control is easy to operate
- Flexible collocation to meet different needs

WIFI Constant temperature Reservation function Large water volume Low noise

MONOBLOC HEAT PUMP

Water Pump Built-In

PRODUCT INTRODUCTION

- Space-saving,fast heating
- The key components are stable and reliable,durable, quality assurance
- Flexible collocation to meet different needs
- Intelligent control is easy to operate

COMMERCIAL HEAT PUMP

PRODUCT INTRODUCTION

- Adopt international famous brand electronic expansion valve, greatly improve the energy efficiency ratio (COP) of the unit
- Adopt six-head helical coaxial heat exchanger, the heat transfer efficiency is higher,
- The key components are all made of listed company products, stable and reliable, durable, quality assurance
- Perfect unit protection and complete engineering supporting functions
- Models applicable to the ambient temperature range can be selected according to different regions: standard type (-5~45℃),low-temperature type -15~45℃)

COMMERCIAL HEAT PUMP

Ultra low temperature

-25℃

STRONG HEATING

EVI Enthalpy Enhancement technology
patented multiple defrosting

PRODUCT INTRODUCTION

- Adopt international famous brand electronic expansion valve, greatly improve the energy efficiency ratio (COP) of the unit
- Adopt six-head helical coaxial heat exchanger, the heat transfer efficiency is higher,
- The key components are all made of listed company products, stable and reliable, durable, quality assurance
- Perfect unit protection and complete engineering supporting functions
- Models applicable to the ambient temperature range can be selected according to different regions: ultra-low temperature type (-25~45℃, jet melting).

ELITE SERIES-R32 EVI

MULTIFUNCITONAL HEAT PUMP

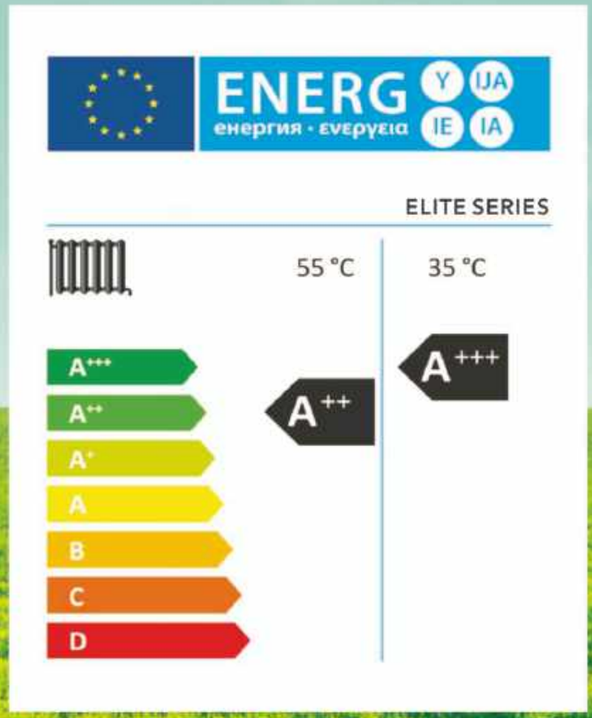
Space Heating
Cooling
Hot Water
R32 Eco Refrigerant
Low Noise
A+++ ErP Energy Label

Refrigerant

Compared to the refrigerants widely used today, such as R-410A and R407C,R32 and R290 have much lower global warming potential, which helps speed up their popularity in the heat pump industry.

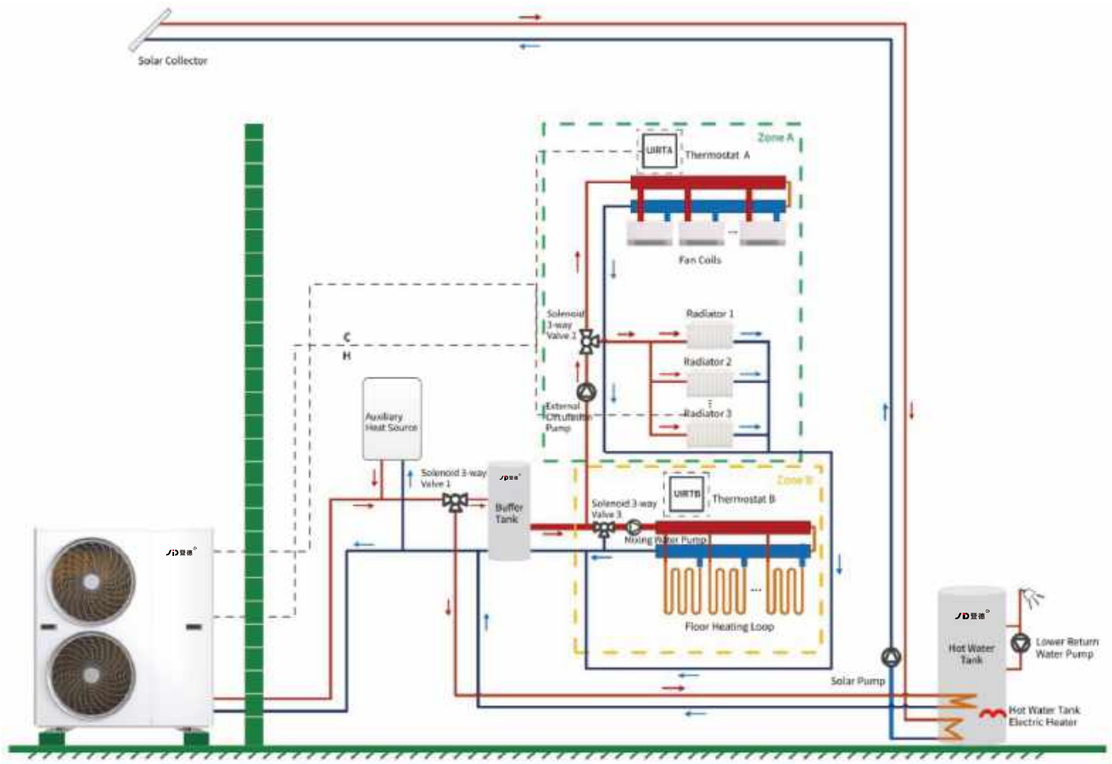
Energy Label

Complying with ERP directives. ELITE SERIES proves itself with powerful capability and attains the A+++ energy label, which meets users' needs for low electricity cost.



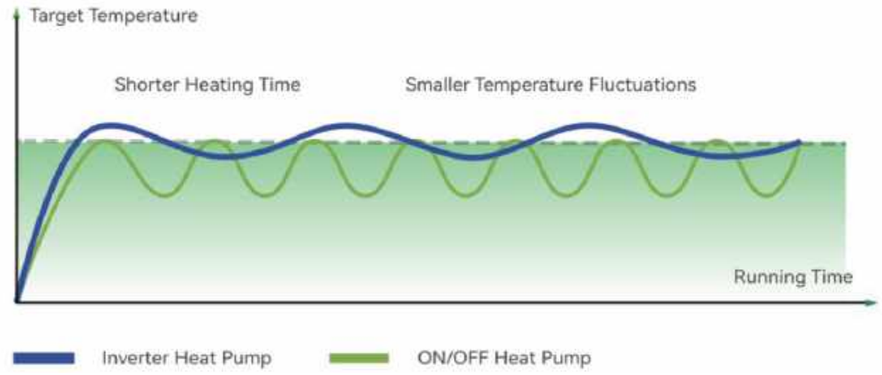
Whole-house Installation Sketch

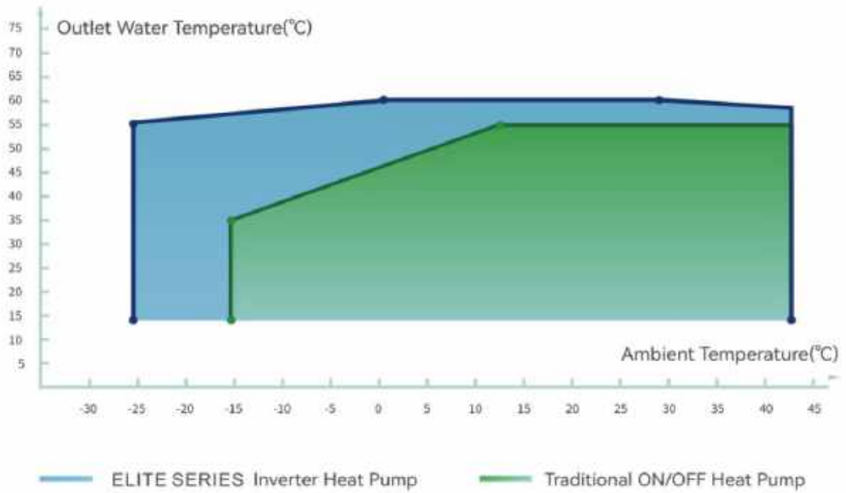
The ELITE SERIES-R32 EVI heat pump allows the interlock with auxiliary heat sources to provide heating, cooling, and hot water for the house. With the Smart Grid control function, the unit can automatically switch states to make full use of idle power, further saving electricity, according to the power storage of photovoltaics and the power status of the grid. Additionally, users can access a room thermostat to control the switch of the host unit and realize precise zone control.



Full DC Inverter Technology

ELITE SERIES adopts full DC inverter technology, which can automatically adjust the frequency according to the ambient temperature to achieve a more constant temperature and bring users a quite comfortable experience at home.





Stable running at -25℃ ambient temperature and the max water outlet temperature is up to 60℃

LOW NOISE

Jide devotes to creating a pretty quiet running environment for the user through multiple noise reduction measures.

DC Inverter Compressor

DC Brushless Motor

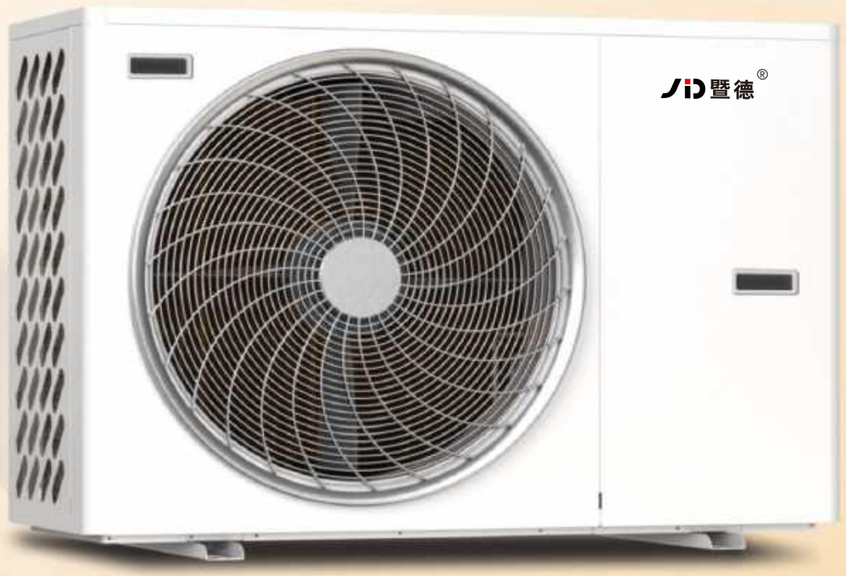
Special Design Fan Blade

Shock Absorber Plate

Sound Absorbing Cotton

Turbulence Air Grille

Optimized Pipeline Design



KEY COMPONENTS

DC Inverter Compressor

Famous brand compressor ensures the stable heating capacity and reduces noise.

DC Fan Motor

DC fan motor is equipped to improve higher work efficiency and lower noise.

Plate Heat Exchanger

Plate heat exchanger with well-known brand is selected to increase heat exchange area for higher COP.

DC Inverter Circulation Pump

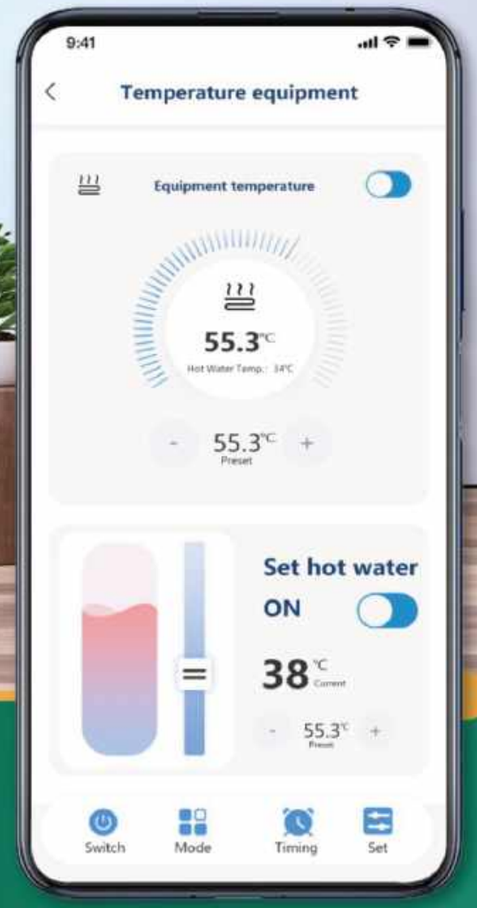
Famous silent circulation pump is installed inside the unit to realize more comfortable experience.

Expansion Tank

Built-in expansion tank to keep stable water system and convenient installation.

IOT Function

Connect the TuyaOS App to check the realtime running status, historical records and controll the heat pump remotely.



Heating
Cooling
Hot Water
Hot Water+Cooling
Hot Water+Heating
Mute
Time Setting
Electric Heater
Curve

HIGH QUALITY

Colored Wire Controller

Jide R32 Heat pumps utilize an intelligent color LCD display with high definition interface and powerful functions,which is very friendly and helpful for users to view and control.

● Single-phase ○ Three-phase

LWH-F4HVLZPEN5 ●

LWH-F6HVLZPEN5 ●

LWH-F8HVLZPEN5 ●
/ LWH-F8HVZPEN5 ○

LWH-F11HVLZPEN5 ●
/ LWH-F11HVZPEN5 ○

LWH-F22HVZPEN5 ○

LWH-F25HVZPEN5 ○

LWH-F15HVLZPEN5 ●
/ LWH-F15HVZPEN5 ○

LWH-F18HVZPE ○

ELITE SERIES

R32 Multifunctional Heat Pump

PARAMETER SPECIFICATIONS

Model: LHW-F	4HVLZPEN5	6HVLZPEN5	8HVLZPEN5	8HVZPEN5	11HVLZPEN5	11HVZPEN5
Power Supply	220-240V~50Hz			380-415V~3N*50Hz	220-240V~50Hz	380V/3N~50Hz
Refrigerant Type	R32					
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C						
Max. Heating Capacity (kW)	1.67~4.34	1.72~6.14	3.63~8.7	3.65~8.75	3.65~11.5	3.68~11.6
Power Input (kW)	0.26~0.91	0.27~1.33	0.60~1.90	0.60~1.94	0.60~2.55	0.60~2.55
COP	6.42~4.76	6.37~4.61	6.05~4.57	6.08~4.51	6.08~4.51	6.13~4.54
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 52°C/55°C						
Max. Heating Capacity (kW)	1.39~3.72	1.42~5.30	3.59~8.14	3.60~8.21	2.07~10.35	2.21~11.83
Power Input (kW)	0.33~1.42	0.35~2.01	0.79~3.13	0.79~3.15	0.90~3.99	0.93~4.45
COP	4.21~2.62	4.05~2.63	4.54~2.6	4.55~2.6	4.14~2.59	4.16~2.65
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C						
Max. Cooling Capacity (kW)	0.93~3.30	1.02~5.01	1.83~9.17	1.85~9.28	2.03~10.16	2.35~11.32
Power Input (kW)	0.20~1.16	0.22~1.82	0.48~3.90	0.47~3.94	0.45~3.62	0.52~3.98
EER	4.65~2.84	4.63~2.75	3.81~2.35	3.93~2.35	4.51~2.81	4.52~2.85
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C						
Max. Heating Capacity (kW)	0.96~4.76	1.43~7.16	10.73	10.92	14.36	14.45
Power Input (kW)	0.13~0.98	0.19~1.49	2.212	2.278	2.973	2.983
COP	7.38~4.85	7.52~4.80	4.85	4.79	4.83	4.84
General Info						
Electric Heater Rated Input (kW)	3	3	3	3	3	3
Max. Power Input (kW)	4.5(1.5+3)	5.2(2.2+3)	6.8 (3.8+3)	7.4(4.4+3)	7.4 (4.4+3)	8.1 (5.1+3)
Max. Running Current (A)	20.5(6.8+13.7)	23.7(10+13.7)	30.9 (17.2+13.7)	13.8 (7.9+5.9)	33.7 (20+13.7)	34.9(21.2+13.7)
Expansion Tank (L)	5					
Compressor	Panasonic					
Water Circulation Pump	WILO(DC Inverter)					
Water Side Heat Exchanger	Plate Heat Exchanger					
Air Side Heat Exchanger	Finned Heat Exhanger					
ErP Level (35°C)	A+++					
ErP Level (55°C)	A++					
Display	4-inch Colored Touch Screen					
Wi-Fi Function	Yes					
Rated Water Flow (m³/h)	0.7	1	1.6	1.6	2.1	2.1
Water Pressure Drop (kPa)	15	17	20	20	22	22
Water Pipe Connection (inch)	G1 1/4"					
Sound Pressure Level dB(A) at 1m	42~52	42~53	43~54	43~54	43~55	43~55
Operation Range (°C)	-20~43					
Max. Outlet Water Temp. (°C)	60					
Water Proof Class	IPX4					
Electricity Shock Proof	I					
Net Weight (kg)	85	90	95	95	100	103
Net Dimensions (L*W*H) (mm)	1009X439X780		1109X439X980			

Model: LHW-F	15HVLZPEN5	15HVZPEN5	18HVZPEN5	22HVZPEN5	25HVZPEN5
Power Supply	220-240V~50Hz	380V/3N~50Hz			
Refrigerant Typ	R32				
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C					
Max. Heating Capacity (kW)	4.86~15.50	4.86~15.50	5.95~18.52	7.46~22.64	7.48~25.87
Power Input (kW)	0.80~3.43	0.80~3.43	0.98~4.15	1.23~5.03	1.24~5.92
COP	6.07~4.52	6.07~4.52	6.05~4.47	6.07~4.51	6.03~4.37
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 52°C/55°C					
Max. Heating Capacity (kW)	2.85~14.26	3.47~16.87	3.50~17.49	4.41~21.23	4.43~23.45
Power Input (kW)	0.62~5.29	0.74~3.06	0.76~6.09	0.96~7.45	0.97~8.65
COP	4.60~2.70	4.68~5.62	4.63~2.87	4.59~2.85	4.57~2.71
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C					
Max. Cooling Capacity (kW)	2.69~15.17	3.21~16.02	3.28~16.91	4.31~18.80	4.36~21.96
Power Input (kW)	0.60~5.54	0.74~5.5	0.75~5.99	0.96~5.83	1.03~7.33
EER	4.48~2.74	4.33~2.91	4.37~2.64	4.49~3.22	4.23~3.00
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C					
Max. Heating Capacity (kW)	19.07	19.35	23.20	25.52	28.31
Power Input (kW)	3.97	4.57	4.813	6.02	6.82
COP	4.84	4.23	4.82	4.24	4.15
General Info					
Electric Heater Rated Input (kW)	3/6/(optional)	3/6/(optional)	3/6/(optional)	3/6/(optional)	3/6/(optional)
Max. Power Input (kW)	9.1(6.1+3) 12.1(6.1+6) 15.1(6.1+9)	10.15(7.15+3) 13.15(7.15+6) 16.15(7.15+9)	9.8 (6.8+3) 12.8(6.8+6) 15.8(6.8+9)	11.7(8.7+3) 14.7(8.7+6) 17.7(8.7+9)	12.8(9.8+3) 15.8(9.8+6) 18.8(9.8+9)
Max. Running Current (A)	24.8(10.9+13.7) 20(10.9+9.1) 24.8(10.9+13.7)	26.3 (12.6+13.7) 21.7(12.6+9.1) 26.3 (12.6+13.7)*	25.7(12+13.7) 21.1(12+9.1) 25.7 (12+13.7)	29(15.3+13.7) 24.4(15.3+9.1) 29(15.3+13.7)	31(17.3+13.7) 26.4(17.3+9.1) 31(17.3+13.7)
Expansion Tank (L)	5				
Compressor	Panasonic				
Water Circulation Pump	WILO(DC Inverter)				
Water Side Heat Exchanger	Plate Heat Exchanger				
Air Side Heat Exchanger	Finned Heat Exhanger				
ErP Level (35°C)	A+++				
ErP Level (55°C)	A++				
Display	4-inch Colored Touch Screen				
Wi-Fi Function			Yes		
Rated Water Flow (m³/h)	2.7	3.2	3.4	4	4.4
Water Pressure Drop (kPa)	26	29	28	30	31
Water Pipe Connection (inch)				G1 1/2"	
Sound Pressure Level dB(A) at 1m	44~55	44~55	44~56	45~56	45~59
Operation Range (°C)	-20~43				
Max. Outlet Water Temp. (°C)	60				
Water Proof Class	IPX4				
Electricity Shock Proof	I				
Net Weight (kg)	120	125	135	140	145
Net Dimensions (L*W*H) (mm)	1209X439X1480			1309X449X1480	

ULTIMATE SERIES-R290

MULTIFUNCITONAL HEAT PUMP

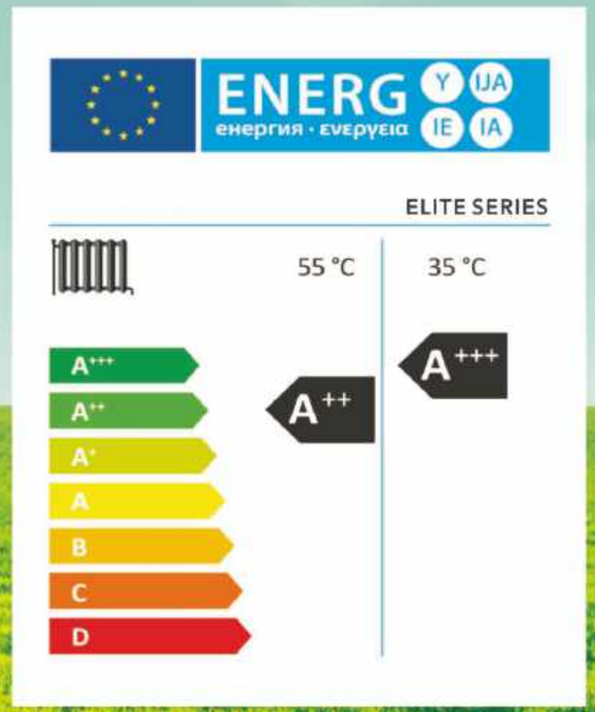
Energy Label

Refrigerant

JIDE ULTIMATE SERIES heat pump uses the R290 eco-friendly refrigerant whose GWP is lower than 7 and helps curb global warming.The heat pump with R290 reaches higher efficiency than those with other refrigerants.

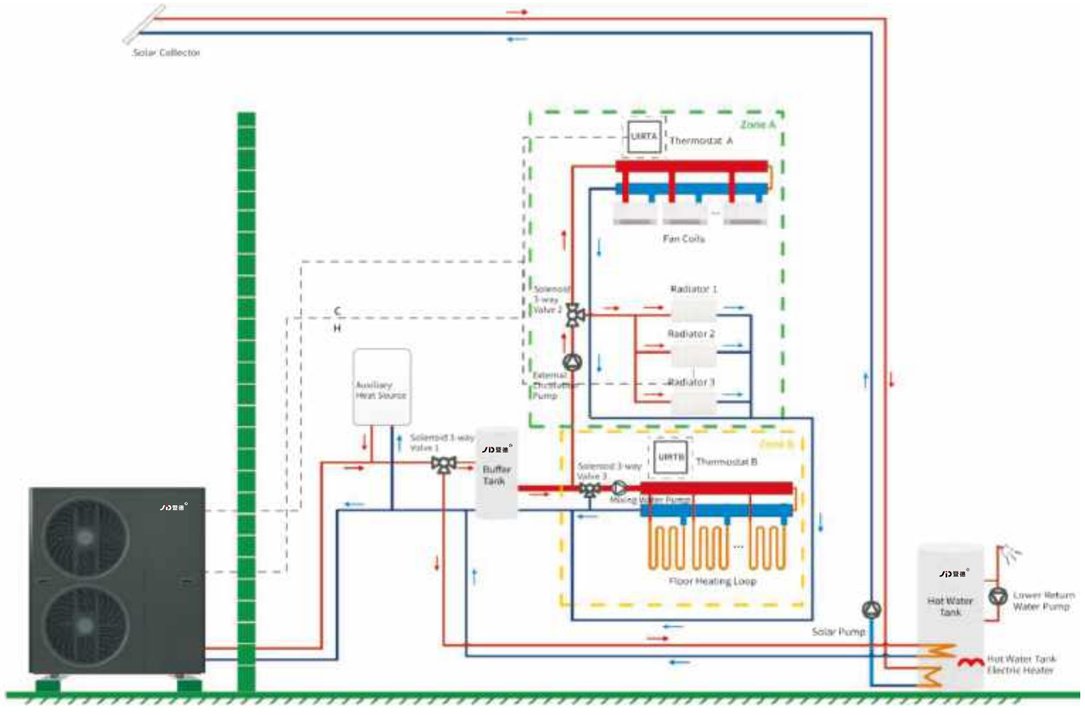
Energy Label

Complying with ERP directives, Ultimate Series proves itself with powerful capability and attains the A+++ energy label, which meets users' needs for low energy bills.



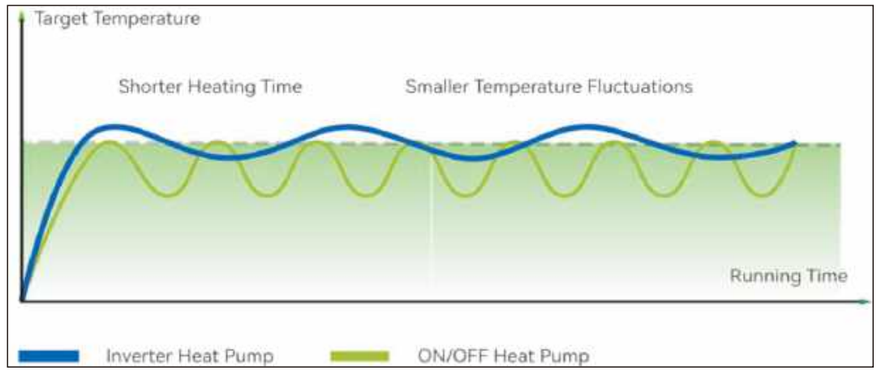
Whole-house Installation Sketch

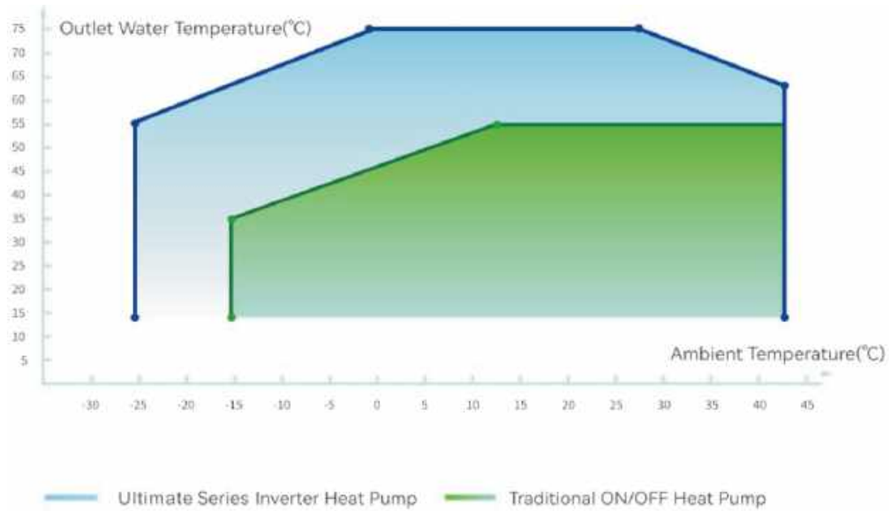
The Ultimate Series heat pump allows the interlock with auxiliary heat sources to provide heating, cooling, and hot water for the house. With the Smart Grid control function, the unit can automatically switch states to make full use of idle power, further saving electricity, according to the power storage of photovoltaics and the power status of the grid. Additionally, users can access a room thermostat to control the switch of the host unit and realize precise zone control.



Full DC Inverter Technology

The Ultimate Series adopts full DC inverter technology, which can automatically adjust the frequency according to the ambient temperature to achieve a more constant temperature and bring users a quite comfortable experience at home.

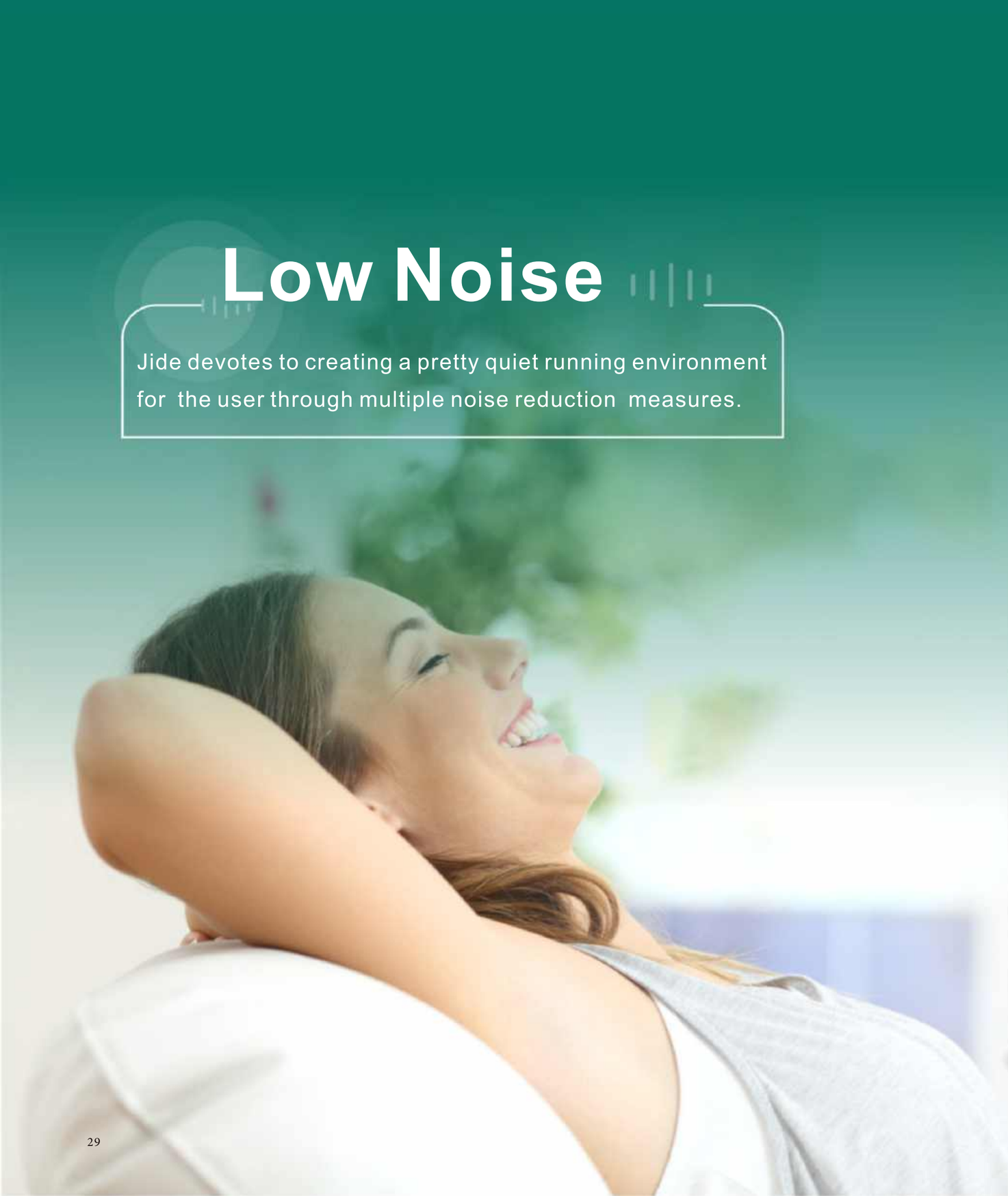




Stable running at -25℃ ambient temperature and the max water outlet temperature is up to 75℃

Low Noise

Jide devotes to creating a pretty quiet running environment for the user through multiple noise reduction measures.



KEY COMPONENTS

Components

DC Inverter Compressor

Famous brand compressor ensures the stable heating capacity and reduces noise.

DC Fan Motor

DC fan motor is equipped to improve higher work efficiency and lower noise.

Plate Heat Exchanger

Plate heat exchanger with well-known brand is selected to increase heat exchange area for higher COP.

DC Inverter Circulation Pump

Famous silent circulation pump is installed inside the unit to realize more comfortable experience.

Expansion Tank

Built-in expansion tank to keep stable water system and convenient installation.

IoT Function

Connect the TuyaOS App to check the realtime running status, historical records and controll the heat pump remotely.

Heating

Cooling

Hot Water

Hot Water+Cooling

Hot Water+Heating

Mute

Time Setting

ElectricHeater

Curve

IoT Function

High Quality

Colored Wire Controller

Jide R290 Heat pumps utilize an intelligent color LCD display with high definition interface and powerful functions, which is very friendly and helpful for users to view and control.

● Single-phase ○ Three-phase

LWH-F6HVLZPN9 ●

LWH-F8HVLZPN9 ●
/ LWH-F8HVZPN9 ○

LWH-F11HVLZPN9 ●
/ LWH-F11HVZPN9 ○

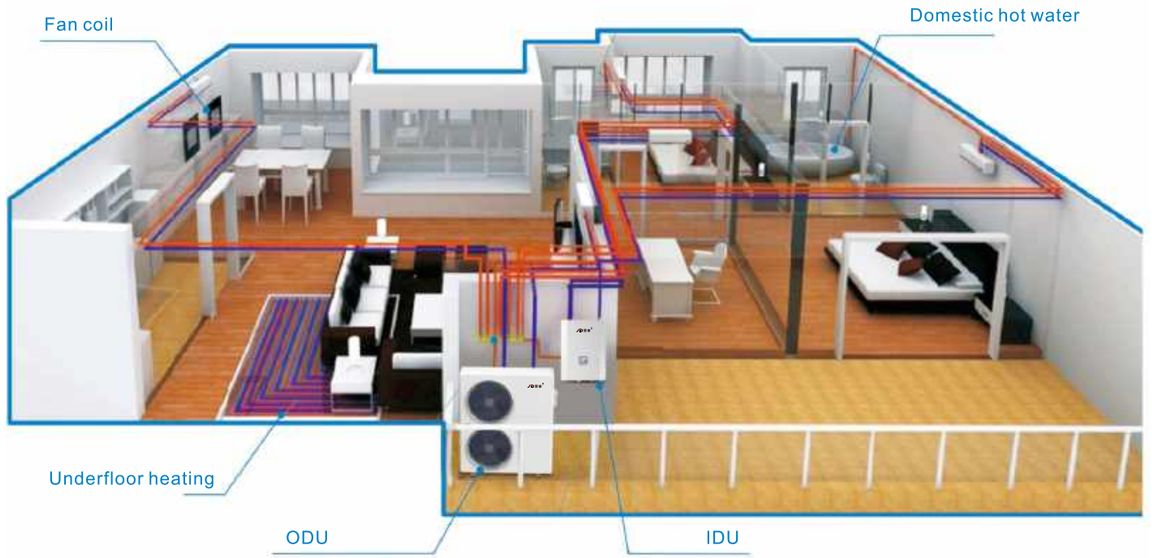
LWH-F15HVLZPN9 ●
/ LWH-F15HVZPN9 ○

LWH-F18HVZPN9 ○

SPLIT EVI DC INVERTER

HEAT PUMP(R32)

SPLIT EVI DC INVERTER HEAT PUMP(R32)



PRODUCT FEATURES

Heat pump is designed specially for markets where there is a demand for Space heating/Cooling + Hot water This unit can realize space heating &Sanitary hot water supply through terminal units, like the Fan coil unit, Floor coil & Radiator. It is widely applicable to small & medium-sized apartment, large-sized villa etc.

8~12.6kw

8.6~22kw

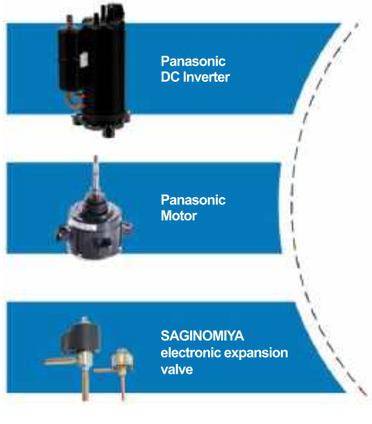
- Split design with indoor unit & outdoor unit
- Easy for installation
- Screw-less appearance
- Modern & compact
- Remote diagnostic system to make sure heat pump an ideal proposition for owners of house

Built In Dc Inverter Circulation Pump

Built-in safety valve

Exhaust valve

With Additional Terminal Block to connect with other equipment,Like Room thermostat.

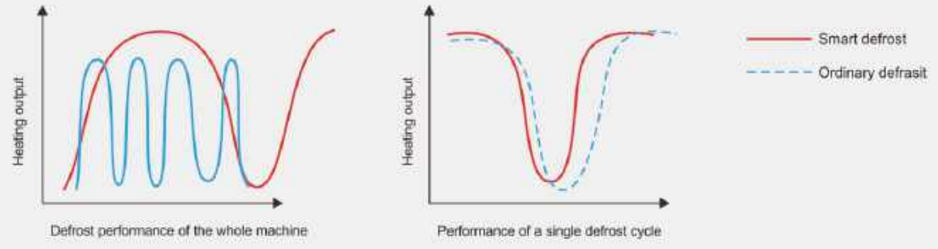


PRODUCT ADVANTAGES

BRAND NEW UPGRADE R32 REFRIGERANT

A+++ ENERGY LABEL

Complying with ERP directives, Ultimate Series proves itself with powerful capability and attains the A+++ energy label, which meets users' needs for low energy bills.



INTELLIGENT DEFROST SYSTEM

Equipped perfect Automatic system with reverse valve inside for defrosting which can let the units stablywork under ambient temperature of -35°Centiarade. At the same time it will make ontimal decisions on whether it is time to defrost or not.In this way, the unit is able to minimize energy consumption.

PRODUCT ADVANTAGES

SMART CONTROL

The intelligent controller is adopted to realize the linkage control between the heat pump unit and the terminal application end. The WIFI APP enables users to operate their units through a smart phone wherever and whenever they are.

PARAMETER SPECIFICATIONS

Model: LHW-F	4HVL2PEN5	6HVL2PEN5	8HVL2PEN5	8HVI2PEN5	11HVL2PEN5	11HVI2PEN5
Power Supply	220-240V~/50Hz			380-415V~/3N/50Hz	220-240V~/50Hz	380/415V~/3N/50Hz
Refrigerant Type	R32					
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C						
Max. Heating Capacity (kW)	1.67~4.34	1.72~6.14	3.43~8.7	3.69~8.79	3.43~11.5	3.69~11.8
Power Input (kW)	0.28~0.91	0.27~1.35	0.60~1.96	0.69~1.84	0.60~2.55	0.69~2.55
COP	5.42~4.76	5.37~4.61	5.08~4.57	5.08~4.81	5.08~4.51	5.13~4.64
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C						
Max. Heating Capacity (kW)	1.39~3.72	1.43~5.30	1.50~6.74	3.80~9.23	3.07~10.86	2.21~11.83
Power Input (kW)	0.33~1.42	0.35~2.01	0.79~3.13	0.79~3.15	0.50~3.69	0.53~4.45
COP	4.21~2.62	4.09~2.63	4.54~2.6	4.89~2.9	4.14~2.59	4.19~2.65
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C						
Max. Cooling Capacity (kW)	0.93~3.30	1.02~5.01	1.93~5.17	1.89~9.28	2.03~10.19	2.39~11.32
Power Input (kW)	0.25~1.16	0.22~1.82	0.48~3.06	0.47~3.64	0.45~3.62	0.52~3.96
EER	4.65~2.84	4.63~2.75	3.91~2.35	3.93~2.55	4.51~2.81	4.62~2.85
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C						
Max. Heating Capacity (kW)	0.86~4.76	1.43~7.16	10.73	10.32	14.26	14.43
Power Input (kW)	0.13~0.66	0.19~1.49	2.213	2.278	3.072	2.983
COP	7.38~4.85	7.52~4.69	4.85	4.79	4.83	4.84
General Info						
Electric Heater Rated Input (kW)	3	3	3	3	3	3
Max. Power Input (kW)	4.5(1.5+3)	5.22(2+3)	6.6 (3.6+3)	7 (4+3)	7.4 (4.4+3)	8.1 (5.1+3)
Max. Running Current (A)	20.5(6.8+13.7)	23.7(10+13.7)	30.0 (17.2+13.7)	13.8 (7.9+5.9)	33.7 (20+13.7)	34.0(21.2+13.7)
Expansion Tank (L)	3					
Compressor	Panasonic					
Water Circulation Pump	WILO(DC Inverter)					
Water Side Heat Exchanger	Plate Heat Exchanger					
Air Side Heat Exchanger	Finned Heat Exhanger					
ErP Level (35°C)	A+++					
ErP Level (55°C)	A++					
Display	5-inch Colored Touch Screen					
Wi-Fi Function	Yes					
Rated Water Flow (m³/h)	0.7	1	1.5	1.5	2.1	2.1
Water Pressure Drop (kPa)	15	17	20	20	23	23
Water Pipe Connection (inch)	G1 1/4"					
Sound Pressure Level dB(A) at 1m	42~52	42~53	43~54	43~54	43~55	43~56
Operation Range (°C)	-20~43					
Max. Outlet Water Temp. (°C)	65					
Water Proof Class	IP54					
Electricity Shock Proof	I					
Net Weight (kg)	85	90	95	95	100	103
Net Dimensions (L×W×H) (mm)	1100X435X790		1100X435X1000			

Model: LHW-F	13HVL2PEN5	13HVI2PEN5	16HVI2PEN5	23HVI2PEN5	23HVI2PEN5
Power Supply	220-240V~/50Hz	380/415V~/3N/50Hz			
Refrigerant Type	R32				
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C					
Max. Heating Capacity (kW)	4.86~15.58	4.86~15.58	5.96~19.32	7.48~22.64	7.48~23.67
Power Input (kW)	0.80~3.43	0.80~3.43	0.98~4.15	1.23~5.03	1.24~5.52
COP	6.07~4.52	6.07~4.52	6.08~4.47	6.07~4.51	6.03~4.31
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C					
Max. Heating Capacity (kW)	2.85~14.28	3.47~16.87	3.90~17.49	4.47~21.23	4.43~23.45
Power Input (kW)	0.63~4.29	0.74~5.09	0.79~5.09	0.96~7.45	0.97~8.66
COP	4.60~2.70	4.68~2.62	4.93~2.97	4.69~2.85	4.57~2.71
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C					
Max. Cooling Capacity (kW)	2.69~15.17	3.21~19.82	3.28~19.91	4.31~19.80	4.36~21.96
Power Input (kW)	0.60~5.54	0.74~6.5	0.79~6.66	0.96~6.83	1.03~7.33
EER	4.49~2.74	4.33~2.91	4.37~2.99	4.49~2.89	4.23~2.99
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C					
Max. Heating Capacity (kW)	19.07	19.36	23.20	25.52	26.31
Power Input (kW)	3.97	4.57	4.813	5.02	5.62
COP	4.84	4.23	4.82	4.24	4.76
General Info					
Electric Heater Rated Input (kW)	3(6)(optional)	3(6)(optional)	3(6)(optional)	3(6)(optional)	3(6)(optional)
Max. Power Input (kW)	9.1(6.1+3) 12.1(6.1+6) 15.1(6.1+9)	10.1(7.1+3) 13.1(7.1+6) 16.1(7.1+9)	9.8 (6.8+3) 12.8(6.8+6) 15.8(6.8+9)	11.7(8.7+3) 14.7(8.7+6) 17.7(8.7+9)	12.8(9.8+3) 15.8(9.8+6) 18.8(9.8+9)
Max. Running Current (A)	24.6(10.9+13.7) 30(16.3+13.7) 34.6(10.9+13.7)	26.3 (12.6+13.7) 31.7(12.6+19.1) 26.3 (12.6+13.7)'	25.7(12+13.7) 31.1(17.4+13.7) 25.7 (12+13.7)	29(15.3+13.7) 34.4(15.3+19.1) 29(15.3+13.7)	31(17.3+13.7) 36.4(17.3+19.1) 31(17.3+13.7)
Expansion Tank (L)	8				
Compressor	Panasonic				
Water Circulation Pump	WILO(DC Inverter)				
Water Side Heat Exchanger	Plate Heat Exchanger				
Air Side Heat Exchanger	Finned Heat Exhanger				
ErP Level (35°C)	A+++				
ErP Level (55°C)	A++				
Display	4-inch Colored Touch Screen				
Wi-Fi Function	Yes				
Rated Water Flow (m³/h)	2.7	3.2	3.4	4	4.4
Water Pressure Drop (kPa)	29	28	29	30	31
Water Pipe Connection (inch)	G1 1/2"				
Sound Pressure Level dB(A) at 1m	44~55	44~55	44~56	45~58	46~59
Operation Range (°C)	-20~43				
Max. Outlet Water Temp. (°C)	60				
Water Proof Class	IP24				
Electricity Shock Proof	I				
Net Weight (kg)	120	129	130	140	140
Net Dimensions (L×W×H) (mm)	1208X430X1460			1309X488X1460	

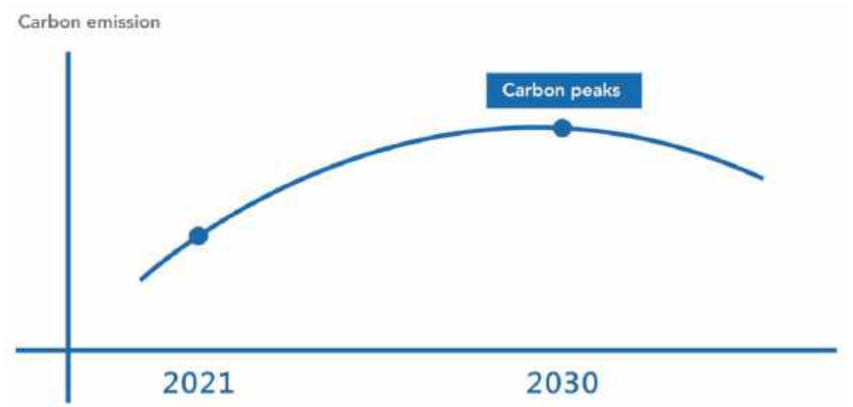
AIR DRYING

HEAT PUMP SERIES

CORE OF DRYING TECHNOLOGY

Effective utilization of energy

Technological progress and application change the mode of production and management, advanced energy saving and environmental protection automation equipment makes product quality improve, production capacity increase, operating costs decrease. Air energy heat pump has a significant effect on improving energy efficiency. One degree of electricity generates more than three times of heat energy from air/water, which is the best choice for enterprises to improve quality, increase production, increase income and reduce consumption. At the same time, it is an important green energy technology application of double carbon emission reduction and environmental protection.



Effective heat utilization rate

The core technology of the drying project is to maximize the effective use of heat. The heat pump provides high energy efficiency heat source, and improves the effective use of heat through scientific air duct circulation structure and precise drying process. The drying hot air evenly transmits the heat to the material, and at the same time takes away the water from the evaporation of the material. The water is discharged through the heat pump condensation dehumidification and strong moisture removal, so as to improve the product quality, shorten the drying time and reduce the operating cost.

TECHNICAL INTRODUCTION OF DRYING HEAT PUMP

The working principle of heat pump drying material

Operating Principle Of Drying Heat Pump Host

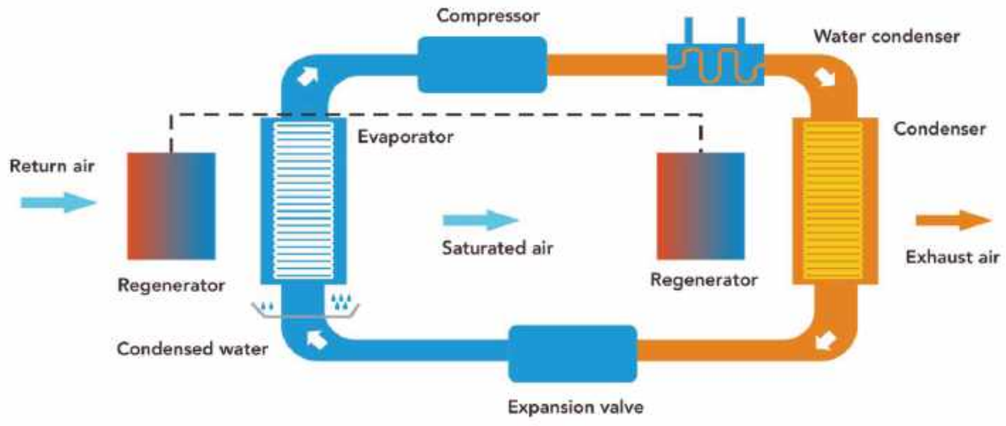
Driven by electricity, the compressor inhales low temperature and low pressure gaseous refrigerant and compresses it into high temperature and high pressure gaseous refrigerant, First, the liquid refrigerant of low temperature and high pressure is released by the condenser, Then, the liquid refrigerant of low temperature and low pressure is throttled into the evaporator.

Temperature Rise And Condensation Dehumidification Process Of Air In Drying Room And Drying Heat Pump Unit

The circulating fan blows the low temperature and high humidity air to the evaporator and the vaporized water in the air reaches the condensing temperature to form the dominant water. After condensation, the dominant water is discharged and the low temperature air after losing water absorbs the heat in the condenser and warms up. The high temperature dry air is sent to the drying bin by the air supply fan.

Water Flow Of Materials In Drying Room

The high-temperature drying air generated by the drying heat pump unit enters into the drying bin, tray, trolley, room, and the space gradually warms up after heat absorption and saturation. As the temperature rises, the water evaporation speed is accelerated, and it is released into the drying bin, and the circulating fan quickly sends the low-temperature and high-humidity air inside the drying bin to the drying heat pump unit for dehumidification, and the drying heat pump unit is then heated to the high-temperature drying air, which then enters into the drying bin to carry on the circulation until the materials are dried.



Product classification

Master the core drying technology

Monoblock Dryer

Precise installation of fresh air, drainage system and material basin frame in the drying room, suitable for drying within 100kg, users only need to turn on the electricity. It is the best choice for small volume drying processing

Integrated Dryer

The open-loop drying heat pump and closed-loop dehumidification heat pump are combined. The open system is used in the early and late stage of material drying. and the closed system is used in the middle stage of material drying.

Closed Loop Dryer

Closed loop dryer required heat from the material moisture contained in the heat, installed in the drying room

Open Loop Dryer

The heat required by the open loop dryer comes from the heat in the outside air and is installed outside the drying room

Split Dryer

It is a kind of Open loop dryer. The main engine is installed outside the drying room, and the inner machine is installed in the drying room.

Main application field

Master the core drying technology

01 / Dehydrated vegetable drying

02 / Snack dried fruit

03 / Dried seafood

04 / Meat drying

05 / Industrial drying

Drying heat pump 7 advantages

Master the core drying technology

Environmental Protection

1

The driving energy of the heat pump is electricity, and there is no exhaust gas, waste water and waste residue discharge in the operation process. It is green energy technology and friendly to the environment

Energy saving

2

The energy consumption of heat pump is significantly lower than that of coal, natural gas, biomass particles and other heat sources.

Quality

3

The color and shape of materials dried by heat pump technology are better than those of coal and natural gas; the retention rate of nutritional and medicinal elements is high; and the sulfur problem in the drying process is completely solved.

Intelligence

4

The heat pump runs intelligently according to the set drying curve parameters without manual operation.

High Efficiency

5

Heat pump drying significantly reduces the drying temperature of materials, reduces the drying time, and increases the drying yield.

Hygiene

6

The heat pump drying system meets food-grade standards and is free of dust, mosquitoes and other food hygiene issues during drying.

Increase Income

7

Heat pump can work all year round, not affected by the weather, drying material quality is good,increase sales revenue.

High quality drying engineering project 3 elements

The selection and matching of drying equipment, drying room air duct structure and size, material drying process is called the three elements of high quality drying engineering project

Selection And Matching Of Drying Equipment

According to the region, drying material varieties, drying volume, quality standards, drying room structure, drying equipment selection and circulating fan configuration.

Drying Room Air Duct Structure And Size

According to the drying material varieties, drying amount, quality standard, use mode, production process design the most suitable drying room structure.

Material Drying Technology

According to the material category, shape, quality standard, especially the terminal water data, drying time and other standards and data, set the corresponding drying curve parameters.

Closed Loop Dryer

Product characteristics

Precise temperature control

Multiple protection

The air volume is adjustable

Taking into account the advantages of open heating and closed dehumidification modes, intelligent conversion between modes, adapt to more drying materials and not affected by low temperature, rainy weather fluctuations

Intelligent temperature control technology, according to the set process data automatic control zone temperature

The combination of open heating mode and closed dehumidification drying mode can effectively improve the quality of drying materials.

Specifications

MODEL	LAD-070MC	LAD-150MC	LAD-250MC
Rated heat production (kw)	19.2	39.8	76.8
Rated air outlet temperature (°C)	70		
Maximum wind temperature (°C)	75		
Rated dehumidification capacity (50°C / 80%) kg/h	20	39	65
Rated dehumidification capacity (50°C / 55%) kg/h	13	28	48
Overall dimension (mm)	850x1650x1670	1450 x 1650 x1675	1960x1450x2000
Weight (kg)	330	460	870
Noise dB(A)	63	63	68
Circulating fan power (kw)	1.5	3.0	4.4
Circulating air flow (m^3/h)	5300	10000	17000
Power supply	380V/3N~/50Hz		
Rated input power (kw)	5 .4	11.6	20.0
Rated input current (A)	11.5	22.5	44.5
Auxiliary electric heating (kw)	6	18	
Drainage mode	Hose continuous drainage		
Refrigerant capacity	Mixed working medium / R134A		
Applicable ambient temperature (°C)	15 ~ 45		

Note:

1. Noise is measured before delivery. Due to environmental noiseor other reasons in actual use, the measured value may be different from the value listed in the table.
2. In the actual use process, whether additionalcirculating fan is needed should be considered according to the situation of the air supply duct
3. With the improvement of the product, the above parameterswill be changed without prior notice.

Heat recovery drying heat pump

Product characteristics

Precise temperature control

Multiple protection

The air volume is adjustable

After the fresh air is heated to 75℃, the material drying quality is excellent.

The unit can be controlled in various ways to realize the functions of cooling and drying, circulating heating and drying, heating and drying, and waste heat recovery.

The products are suitable for drying different materials, widely used, energy-saving and environmental protection.

Specifications

MODEL	LAD-070CK	LAD-150CK	LAD-250CK	LAD-070CKZ	LAD-150CKZ	LAD-250CKZ
Rated heat production (kw)	20.8	43.2	82.2	82.2	43.2	82.2
Rated air outlet temperature (°C)	70					
Maximum wind temperature	75					
Overall dimension (mm)	1755x1370x1320	1900x1550x1750	960x1450x2000	960x1450x2000	1900x1550x1750	1960x1450x2000
Weight (kg)	280	520	850	850	520	850
Noise dB(A)	65	72	76	76	72	76
Circulating air flow (m^3/h)	6500	10500	21000	21000	10500	21000
Power supply						
Rated input power (kw)	6.1	10.8	24.3	24.3	10.8	24.3
Rated input current (A)	11.8	21	49.5	49.5	21	49.5
Maximum input power (kw)	7.8	15.2	34	34	15.2	34
Maximum input current (A)	15.6	29.4	69	69	29.4	69
Applicable ambient temperature (°C)	0-40			-10-40		

Note:

1. Measured values of the above parameters at the ambient temperature of 20℃ and the temperature of the board room of 70℃.
2. Noise is measured before delivery.Due to environmental noise or other reasons in the actual use process, the measured value may be different from the value listed in the table.
3. With the improvement of the product, the above parameters will be changed without prior notice.

Open Loop Dryer

Product characteristics

Precise temperature control

Multiple protection

The air volume is adjustable

Intelligent temperature control technology, Special control logic, precise control of drying room temperature

Parallel air supply, fan can be adjusted to forward, reverse rotation, intelligent conversion, before and after the material heated uniformly, good consistency of drying speed

Moisture waste heat secondary recovery, improve the effective utilization rate of heat energy.

Specifications

MODEL	LAD-070CKII	LAD-150CKII	LAD-070CKIIZ	LAD-150CKIIZ
Rated heat production (kw)	20.8	43.2	20.8	43.2
Rated air outlet temperature (°C)	70			
Maximum wind temperature (°C)	75			
Overall dimension (mm)	1755x1166x1320	1900x1550x1750	1755x1166x1320	1900x1550x1750
Weight (kg)	280	520	320	520
Noise dB(A)	65	72	65	72
Circulating air flow (m^3/h)	6500	10500	6500	10500
Power supply	380V/3N-50Hz			
Rated input power (kw)	6.1	10.8	8.0	10.8
Rated input current (A)	11.8	21.0	15.4	21.0
Maximum input power (kw)	7.8	15.2	14.0	15.2
Maximum input current (A)	15.6	29.4	28.0	29.4
Applicable ambient temperature (°C)	0-40		-0-40	

Note:

1. Measured values of the above parameters at the ambient temperature of 20℃ and the temperature of the board room of 70℃.
2. Noise is measured before delivery.Due to environmental noise or other reasons in the actual use process, the measured value may he different from the value listed in the table.
3. With the improvement of the product, the above parameters will be changed without prior notice.

Closed Loop Dryer

Product characteristics

Precise temperature control

Multiple protection

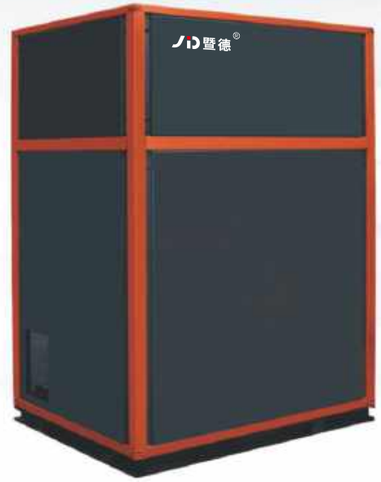
The air volume is adjustable

Material drying closed cycle; To avoid the risk of external air pollution to materials to the greatest extent

Aluminum cast blades and motors with high air volume, high wind pressure and high temperature and humidity resistance are prepared, and there is no hidden danger of corrosion

Intelligent temperature control technology, special control logic, precise control of drying material temperature and humidity

Integrated structure design, easy installation of main engine and air duct



Specifications

MODEL	LAH-050C	LAH-070C	LAH-100C	LAH-150C	LAH-200C	LAH-250C
Rated air outlet temperature (°C)	65~70					
Maximum wind temperature	80					
Rated dehumidification capacity (50°C / 80%) kg/h	16	20	30	39	56	71
Rated dehumidification capacity (50°C / 55%) kg/h	11.5	15	22	32	45	55
Overall dimension (mm)	800x850x1600	1385x855x1660	1295x955x1800	1495x955x1850	1950x1250x1980	1950x1250x1980
Weight (kg)	260	300	400	430	560	610
Noise dB(A)	53	53	59	60	63	64
Circulating fan power (kw)	1.1	1.5	2.2	3.0	3.6	4.4
Circulating air flow (m^3/h)	3500	5300	7500	10600	14300	18000
Power supply						
Rated input power (kw)	4.3	5.4	8.2	11.6	16.8	21.2
Rated input current (A)	7.8	11.5	15.6	22.5	28.4	37.6
Auxiliary electric heating (kw)	6	6	12	15	18	18
Drainage mode	Hose continuous drainage					
Refrigerant capacity	R134A					
Applicable ambient temperature (°C)	15 ~ 45					

Note:

1. Noise is measured before delivery. Due to environmental noise or other reasons in actual use, the measured value may be different from the value listed in the table
2. With the improvement of the product, the above parameters will be changed without prior notice
3. In the actual use process, whether additional circulating fan is needed should be considered according to the situation of the air supply duct.

Split Dryer

Product characteristics

Precise temperature control

Multiple protection

The air volume is adjustable

Realization of atmospheric low-temperature air closed cycle drying, material drying quality is excellent.

Conforms to the air duct circulation structure of the drying room, which is convenient for the installation of the machine.

Precise temperature and humidity control, fully automatic drying process.

Drying process without three wastes emission, friendly to the environment, universal equipment, flexible and simple installation.

Specifications

MODEL	LAD-030FC	LAD-070FC	LAD-100FC		LAD-150FC		LAD-200FC	LAD-250FC
Rated heat production (kw)	16.8	20.8	34.6		43.2		66.0	82.2
Rated air outlet temperature (°C)	70							
Maximum wind temperature (°C)	75							
(Indoor) Type	Horizontal (Type I)	Horizontal (Type I)	Horizontal (Type I)		Horizontal (Type I)		Horizontal (Type I)	Horizontal (Type I)
(Indoor) Quantity	1	1	2	1	2	1	1	1
(Indoor) Dimension (mm)	1745x635x600	2045x635x600	1745x635x600	2145x688x650	2045x688x600	2545x688x650	2203x893x1084	2203x893x1084
(Indoor) Weight (kg)	90	105	95x2	180	105x2	209	360	390
Circulating fan Power (recommended) (kw)	1.5	1.5	3.0	3.3	3.6	3.3	4.4	4.4
(indoor)Dimensions of external connection pipe	Rc3/8"/Rc1/2"	Rc3/4"/Rc5/8"	Rc5/8"/Rc1/2		Rc3/4"/Rc5/8		Rc7/8/Rc1-1/8(Welding)	
(indoor) machine noise dB(A)	65	66	67		67		73	76
(Outdoor) Size (mm)	775x875x1099	775x875x1099	1540x710x1180		1540x710x1180		2010x1165x2025	2010x1165x2025
(Outdoor) machine weight (kg)	140	160	300		340		510	650
(outdoor) machine noise dB(A)	56	56	58		58		65	65
Power supply	380V/3N~/50Hz							
Rated input power (kw)	4.5	6.1	9.2		10.8		19.5	24.3
Maximum input power (kw)	6.3	8.5	12.6		15.2		27.3	34.0
Rated input current (A)	8.0	12.0	18		21		39.0	49.5
Maximum input current (A)	12.6	16.8	25.2		29.4		54.6	69.0
Applicable ambient temperature	-15 ~ 45							

Note:

1. Measured values of the above parameters at the ambient temperature of 20℃ and the temperature of the board room of 70℃.
2. Noise is measured before delivery.Due to environmental noise or other reasons in the actual use process, the measured value may he different from the value listed in the table.
3. With the improvement of the product, the above parameters will be changed without prior notice.

Monoblock Dryer

Product characteristics

Precise temperature control

Multiple protection

The air volume is adjustable

201/304 stainless steel sheet metal, food-grade configuration

Air temperature 75℃-80℃, meet the high temperature material drying.

Two-stage heat recovery system, high air pressure, large air volume, strong penetration of dry and hot air to materials, energy efficiency ratio 3-3.5.

485 communication module, APP remote control, convenient operation and monitoring

Specifications

MODEL	LAD-150ZX	LAD-250ZX
Rated heat production (kw)	43.2	82.2
Rated air outlet temperature (°C)	70	
Maximum wind temperature (°C)	85	
Overall dimension (mm)	1450x1650x1875	1960x1450x2000
Weight (kg)	520	850
Noise dB(A)	72	76
Circulating air flow (m^3/h)	10500	21000
Power supply	380V/3N-50Hz	
Rated input power (kw)	10.8	24.3
Rated input current (A)	21	49.5
Maximum input power (kw)	15.2	34
Maximum input current (A)	29.4	69
Applicable ambient temperature (°C)	-10-40	

Note:

1. The above parameters are measured when the ambient temperature is 20℃(DB)/15℃(WB) and the air outlet temperature of the unit is 70℃.
2. Noise is measured before delivery, Due to environmental noise or other reasons in the actual use process. the measured value may be different from the value listed in the table.
3. With the improvement of the product, the above parameters will be changed without prior notice

Dehumidification dryer

Product characteristics

Precise temperature control

Multiple protection

The air volume is adjustable

Independent constant-temperature dehumidification system ensures good drying quality of materials under low-temperature environment.

Combined anticorrosion design, prolonging the service life of the unit Intelligent dehumidification system

Refrigeration dehumidification drying, heating dehumidification drying, heating dehumidification drying mode switching control

The unit is suitable for seafood, meat and poultry, low and medium temperature drying of wooden furniture.

Specifications

MODEL	LAD-050CH	LAD-070CH
Rated heat capacity (kw)	19.3	25.6
Rated cooling capacity (kw)	14.0	18.2
Rated dehumidification capacity (50°C/55%) (kg/h)	7	9
Maximum wind temperature (°C)	55	
Minimum air outlet temperature (°C)	15	
Overall dimension (mm)	1080x600x1850	1080x600x1850
Weight (kg)	270	300
Noise dB(A)	62	62
Circulating air flow (m^3/h)	0.55	0.75
Power supply	380V/3N-50Hz	
Rated input power (kw)	4.5	6.1
Unit rated input current (A)	8.5	11.8
Auxiliary electric heating kw(optional)	6	6
Drainage mode	External water pipes drain water	

Note:

1. the above parameters to determine the ambient temperature: heating: 20℃(DB)/15℃(WB), drying room temperature 55℃ refrigeration environment :35℃(DB) /24℃(WB), board room temperature 25℃
2. Noise is measured before delivery, Due to environmental noise or other reasons in the actual use process,the measured value may be diferent from the value listed in the table.
3. With the improvement of the product, the above parameters will be changed without prior notice
4. In the actual use process, whether additionalcirculating fan is needed should be considered according to the situation of the air supply duct

Fruit and vegetable fresh-keeping machine

Product characteristics

Precise temperature control

Multiple protection

The air volume is adjustable

Refrigeration and heating device, preservation temperature 0-5 ℃, constant heat temperature <50 ℃

Highly intelligent temperature and humidity control technology, special control logic, precise control of temperature and humidity of fresh storage/constant temperature storage

Professional outdoor finned heat exchanger design, to achieve high energy-efficiency

Refrigeration heating thermostat function of summer cooling and constant temperature in autumn and winter, to meet the customer's demand for multi-purpose.

Specifications

MODEL	LAD-030ACR	LAD-050ACR			
Rated heat production (kw)	9.3	13.8	18.2	30.3	36.4
Rated hot air/maximum temperature (°C)	65/70				
Rated cooling capacity (kw)	8.1	11.9	11.9	26.2	31.7
Rated cold air/minimum temperature (°C)	0/-5				
Power supply	380V / 3N~150Hz / 220V / 1N~150Hz		380V / 3N~150Hz		
Length X width X height (mm)	1315x650x1120	1450x800x1240		1660x1005x1435	
Unit weight (kg)	195	250	250	470	485
Circulating fan power w	375	450		1000	
Circulating air flow (m/h)	2800	4000		7500	
Unit noise dB(A)	52	55	56	58	59
Rated heating input power (kw)	2.9	4.5	5.4	9.2	10.8
Rated heating input current (A)	5.2 / 13.9	8.0/21.5	9.6	16.5	19.3
Rated cooling input power (kw)	28	3.6	4.8	8.1	9.9
Rated refrigeration input current (A)	4.81 13.4	6.1/17.2	7.4	14.5	17.0

Note:

1. the above parameters to determine the ambient temperature: drying environment : 20℃(DB)/15℃(WB), board room temperature 70℃ preservation environment : 35℃(DB)/24℃ (WB), board room temperature 5℃
2. Noise is measured before delivery, Due to environmental noise or other reasons in the actual use process, the measured value may be different from the value listed in the table.
3. With the improvement of the product, the above parameters will be changed.

Monoblock Dryer

Product characteristics

Precise temperature control

Multiple protection

The air volume is adjustable

Adopting circulating heating method, the air is fresh,

The automatic moisture removal system and material stacking racks are installed in the drying room and equipped with automatic control system, which can be used after connecting the power supply, no need for on-site installation and construction.

Specifications

MODEL	LADR200	LADR350
Rated heat production	8.0	12.0
Rated dehumidification (50°C/55%)	4.5	9.0
Rated air outlet temperature	65	70
Maximum wind temperature	70	95
One-time drying material quantity (kg)	70~100	150 ~ 200
Overall dimension (mm)	1270x900x1950	1805x1350x2000
Circulating fan power (kw)	0.25	0.55
Circulating air flow (m/h)	1800	4500
Power supply	220V/1N~/50Hz	380V/3N~/50Hz
Unit rated input power (kw)	1.7	2.7
Unit rated input current (A)	8.5	5.2
Auxiliary heating (kw)	1.5	10(Invention patent, plane heat conduction system
Dehumidification mode	Microcomputer intelligent control	
Weight (kg)	200	340
Noise dB(A)	45	49

Note:

1. The above parameters are measured when the ambient temperature is 20℃(DB)/15℃(WB) and the air outlet temperature of the unit is 70℃.
2. Noise is measured before delivery. Due to environmental noise or other reasons in the actual use process, the measured value may be different from the value listed in the table.
3. With the improvement of the product, the above parameters will be changed without prior notice.

Industrial drying system

Product characteristics

Jide high-tech industrial drying system has remarkable energy-saving effect, which can greatly reduce the production cost of the enterprise and improve the product output.

Meet the requirements of different drying stages of the production line for temperature, air volume and air pressure, with high degree of automation and real-time control.

Intelligent control, the system runs automatically according to the set parameters and can realize unattended operation.

Multi-point temperature sensing precise control, real-time control of temperature and humidity of the operating line, the material drying quality is more guaranteed;

Safe and environmentally friendly, without any harmful gas emissions.

Paper tube drying line

Paint drying line