



CHUNLAN

COMMERCIAL AIR CONDITIONERS

– 2017 –



JIANGSU CHUNLAN IMP.&EXP.CO.,LTD.

10Th Floor, Chunlan Global Business Center,Taizhou, Jiangsu,China

General Manager Hotline:+86-523-86993086

FAX: +86-523-86662193

E-mail: gyj@chunlan.com

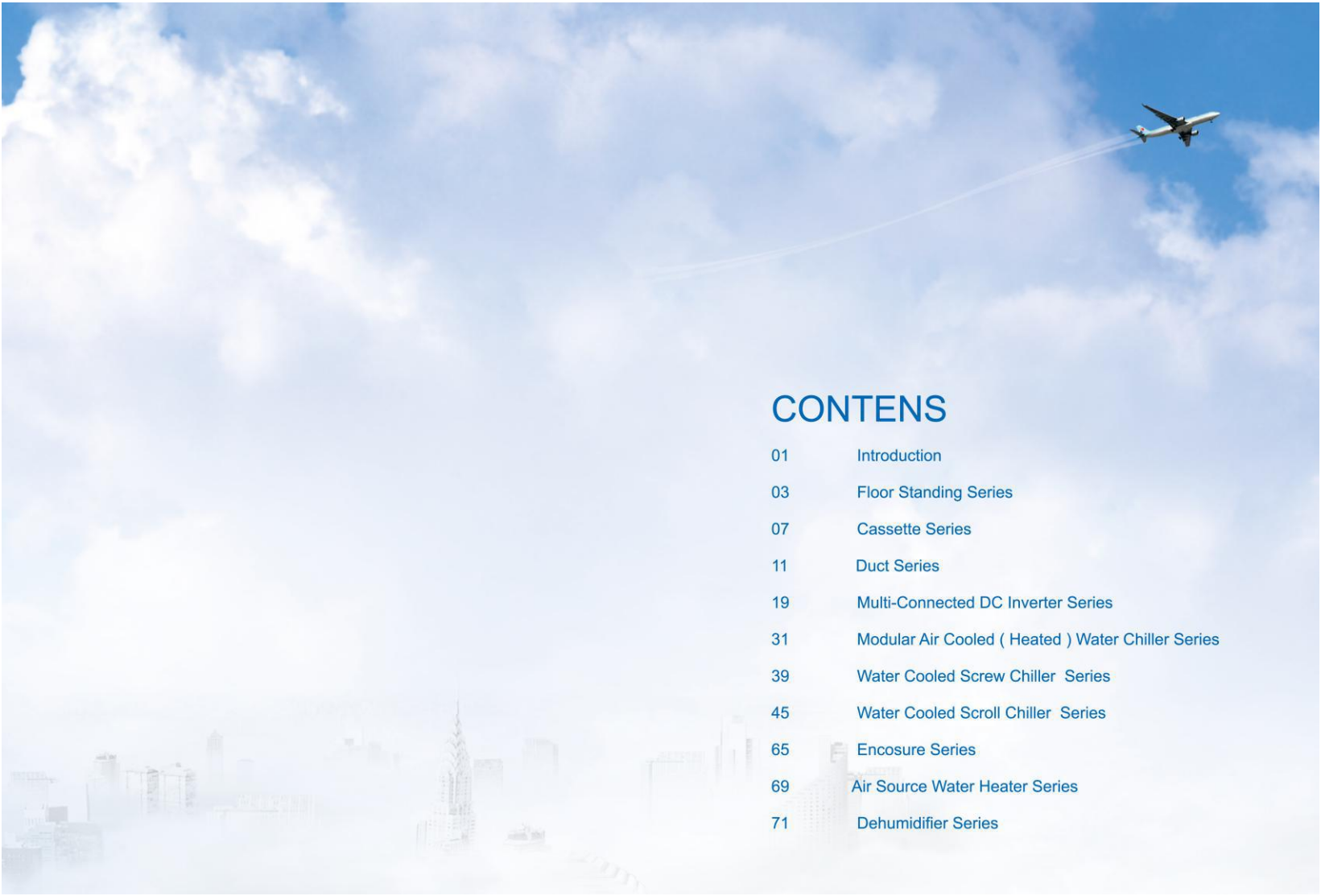
Website: <http://global.chunlan.com>

<http://www.chunlan.com>

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Note:Due to continuous R&D,designs,features and specifications are subject to change without prior notice. As per specific product data,contract should be taken as final and binding.





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Chunlan Introduction

As one of the largest enterprise in china ,Chunlan (Group) corporation is a diversified high-tech and modern corporation that specializes in manufacturing, scientific research, investment as well as trading areas with multi independent subsidiaries in china and abroad.

The "Global Open Scientific Research Platform" consisted of Chunlan educational/research institutions ,Chunlan Academy, Chunlan Post-doctoral Work Station and state-level technology development center is the important base for the world frontier science and technology research.

Chunlan industries cover machinery, air conditioner, new energy, real estate, hotel industry, commerce, finance and investment, etc; the main products include residential air conditioner, commercial air conditioner, compressor, high- energy power battery and power management system, power system, mechanical processing and power products, residential and commercial real estate and so on.

As a "technology leader" enterprise, Chunlan Group undertake many national science and technology projects, not only leading the R&D of energy saving, environmental friendly, intelligent, healthy home appliances in domestic market, but also promoting the development of china's new energy industry. The high power batteries which have been included in the national major science and technology, are widely used in new energy cars, high speed locomotives, intelligent robot, large ships, etc, and "the Key Technology of Energy Saving for Hybrid Bus" won the National Technology Progress Award"; Chunlan storage power station and solar energy power station system are successfully applied in Shanghai world expo etc; The leading edge science and technology products -- chunlan fuel battery, the human genome repair and depth and height radio wireless communication equipment have made great breakthrough.

In the first decade of the new century, chunlan will comprehensively integrate and optimize the resources, accelerate the global prosecution, fulfill the social responsibility, create the low- carbon and cycle economy, build a friendly and harmonious enterprise, make a greater contribution to the better and faster development of China's economy and various undertakings.

New realm, new strategy and new development. Chunlan is proudly moving forward to its ultimate strategic goal of becoming a world -famous diversified corporation.



Seven industries



Chunlan Commercial Air conditioner Introduction

Chunlan commercial air conditioner is one of the most important industries of chunlan group. Chunlan Air Conditioning Equipment Co., LTD. is the earliest manufacturer of large commercial air conditioner in china. The main products include: commercial floor standing series, cassette series, household water chiller series, modular air cooled water chiller series, centralized control multi-connected inverter series, modular duct series, multi-connected air-conditioning series, duct type air conditioner series, dehumidifier series, portable air conditioner series, heat pump water heater series and so on.

For many years, the products of the company have been well received by the domestic users. Besides, the products have also been sold to more than 100 overseas countries and regions and the export volume has reached one million units.

Chunlan not only always upholds the spirit of scientific -technical progress, but also builds ISO9001 international quality management system and ERP enterprise management system. The products have passed the 3C certificate, CE certificate, CB certificate etc.

Adhering to the 50 years design and manufacturing experience, the company has already developed numerous commercial air conditioners which proprietary and intellectual property rights.

Depending on the cascade scientific research system composed of chunlan institute - postdoctoral research station and research institution, the company keeps on aiming at the world advanced technology and constantly improving the scientific innovation ability and quality management ability of the products to meet customers' demands.



History of Commercial Air Conditioner

- 1989 Chunlan took the lead in developing the first 10HP split floor standing unitary air conditioner
- 1995 Jiangsu Chunlan Refrigeration Equipment CO., LTD. was established
- 1995 Chunlan 10HP unitary air conditioner won the "National New Product" certificate
- 2001 Chunlan developed the new type of intelligent scroll compressor module for central air conditioner, and applied it to the central air cooled water chiller unit
- 2002 Jiangsu Chunlan Refrigeration Equipment CO., LTD. and Jiangsu Chunlan Dehumidification Equipment CO., LTD. were combined as Chunlan Refrigeration Equipment CO., LTD
- 2002 Chunlan commercial air conditioner passed ISO9001 quality management system
- 2005 Chunlan developed the central air conditioner which could connect 16 sets of indoor units
- 2006 Chunlan intelligent multi-connected central air conditioner passed the evaluation, the technology reached the international advanced level
- 2007 Chunlan intelligent multi-connected central air conditioner won the "National Key New Product" certificate
- 2009 Jiangsu Chunlan Refrigeration Equipment co., LTD. was renamed Jiangsu Chunlan Air Conditioning Equipment CO., LTD
- 2011 Chunlan commercial air conditioner has passed CCC certificate of the CQC for 8 years

CERTIFICATES





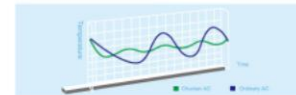
Floor Standing Air Conditioners

Strong capability, long distance air supply

Chunlan floor standing type air conditioner is excellent for the strong cooling or heating capability and long distance which up to 15m air supply, which can make the room cool / warm no matter how large space is.

**Intelligent temperature control**

Constant temperature is guaranteed by intelligent precise temperature control, which will decide the cooling mode automatically according to the difference of ambient temperature and room temperature.

**LED full screen dynamic display**

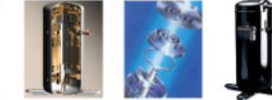
LED full screen dynamic display, with bright and dazzling color, clear and super innovation.

**Low noise**

By application of the finite element analysis technology and air flow field stimulation technology, noise from vibration of the compressor and other moving parts is decreased a lot.

**High efficient compressor**

Chunlan air conditioner adopts famous brand and high efficient compressor to improve the refrigeration efficiency, the efficiency is 5% more than the ordinary compressor.

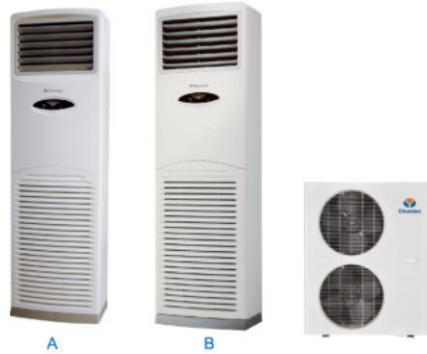
**High-density air filters**

Adopting high density air filter, effectively filtrate dust, peculiar smell, which removes dust up to 78.6%, better than the most ordinary filters. The filter keeps the inside of the unit cleaner and than translates into cleaner air.



Application Area: shops, factories, offices, clubs, restaurants and other places.





CF-42/AS CF-42R/AdS CF-42R/AWAdS CF-42/AHS CF-42R/AHdS CF-42R/AHWAdS
CF-42/BS CF-42R/BdS CF-42R/BWAdS CF-42/BHS CF-42R/BHdS CF-42R/BHWAdS



CF-96/FS CF-96R/FdS CF-96R/FWAdS CF-96R/HS CF-96R/HdS

Performance	Model	CF-42/AS	CF-42R/AdS	CF-42R/AWAdS	CF-42/AHS	CF-42R/AHdS	CF-42R/AHWAdS
Refrigerant		R22	R22	R410a	R22	R22	R410a
Cooling Capacity	Btu/h	42000	42000	42000	42000	42000	42000
Heating Capacity	Btu/h	42000(60000)	42000	45000(60000)	42000	45000(60000)	45000(60000)
Power Supply	Ph, V~, Hz	3,380, 50	3,380, 50	3,380, 50	3,380, 50	3,380, 50	3,380, 50
Rated Cooling Power Input	W	4700	4700	4300	3800	3800	3800
Rated Heating Power Input	W	4700	4700(2400)	4420(2400)	4300	3800(2400)	3800(2400)
Rated Cooling Operating Current	A	7.1	7.1	7.4	6.0	6.0	6.0
Rated Heating Operating Current	A	7.1	7.1(11)	7.5(11)	6.0(11)	6.0(11)	6.0(11)
Air Flow Volume(indoor)	m³/h	1800	1800	1800	1800	1800	1800
Noise Level	(dB(A))	Indoor: 54 Outdoor: 60	Indoor: 54 Outdoor: 60	Indoor: 54 Outdoor: 60	Indoor: 52 Outdoor: 60	Indoor: 52 Outdoor: 60	Indoor: 52 Outdoor: 60
Net Dimensions	W×D×H (mm)	540×370×1820	540×370×1820	540×370×1820	540×370×1820	540×370×1820	540×370×1820
Net Weight	(kg)	51/99	51/103	51/103	51/108	51/113	51/113
Packing Dimensions	W×D×H (mm)	635×470×1920	635×470×1920	635×470×1920	635×470×1920	635×470×1920	635×470×1920
Gross Weight	(kg)	60/114	60/118	60/118	60/124	60/128	60/128
Applicable Area	m²	60-120	60-120	60-120	60-120	60-120	60-120
Loading Quantity	(set)	20/42/142HQ	18/38/48	18/38/48	18/38/48	18/38/48	18/38/48

Performance	Model	CF-42/BS	CF-42R/BdS	CF-42R/BWAdS	CF-42/BHS	CF-42R/BHdS	CF-42R/BHWAdS
Refrigerant		R22	R22	R410a	R22	R22	R410a
Cooling Capacity	Btu/h	42000	42000	42000	42000	42000	42000
Heating Capacity	Btu/h	42000	45000(60000)	45000(60000)	42000	45000(60000)	45000(60000)
Power Supply	Ph, V~, Hz	3,380, 50	3,380, 50	3,380, 50	3,380, 50	3,380, 50	3,380, 50
Rated Cooling Power Input	W	4700	4300	3800	3800	3800	3800
Rated Heating Power Input	W	4700(2400)	4420(2400)	4300	3800	3800(2400)	3800(2400)
Rated Cooling Operating Current	A	7.1	7.1	7.4	6.0	6.0	6.0
Rated Heating Operating Current	A	7.1	7.1(11)	7.5(11)	6.0(11)	6.0(11)	6.0(11)
Air Flow Volume(indoor)	m³/h	1800	1800	1800	1800	1800	1800
Noise Level	(dB(A))	Indoor: 54 Outdoor: 60	Indoor: 54 Outdoor: 60	Indoor: 54 Outdoor: 60	Indoor: 52 Outdoor: 60	Indoor: 52 Outdoor: 60	Indoor: 52 Outdoor: 60
Net Dimensions	W×D×H (mm)	540×370×1820	540×370×1820	540×370×1820	540×370×1820	540×370×1820	540×370×1820
Net Weight	(kg)	51/99	51/103	51/103	51/108	51/113	51/113
Packing Dimensions	W×D×H (mm)	635×470×1920	635×470×1920	635×470×1920	635×470×1920	635×470×1920	635×470×1920
Gross Weight	(kg)	60/114	60/118	60/118	60/124	60/128	60/128
Applicable Area	m²	60-120	60-120	60-120	60-120	60-120	60-120
Loading Quantity	(set)	20/42/142HQ	18/38/48	18/38/48	18/38/48	18/38/48	18/38/48

Performance	Model	CF-96/FS	CF-96R/FdS	CF-96R/FWAdS	CF-96/HS	CF-96R/HdS
Refrigerant		R22	R22	R410a	R22	R22
Cooling Capacity	Btu/h	96000	96000	96000	96000	96000
Heating Capacity	Btu/h	96000	100000(205000)	100000(205000)	96000	100000(205000)
Power Supply	Ph, V~, Hz	3,380, 50	3,380, 50	3,380, 50	3,380, 50	3,380, 50
Rated Cooling Power Input	W	10100	10100	10100	9100	9100
Rated Heating Power Input	W	9400(9000)	10200(9000)	10200(9000)	9100	9100(9000)
Rated Cooling Operating Current	A	18.8	18.8	20.9	18.9	18.9
Rated Heating Operating Current	A	18.8	18.8(11)	20.9(11)	18.9	18.9(11)
Air Flow Volume(indoor)	m³/h	4200	4200	4200	4200	4200
Noise Level	(dB(A))	Indoor: 61 Outdoor: 63	Indoor: 61 Outdoor: 63	Indoor: 61 Outdoor: 63	Indoor: 61 Outdoor: 63	Indoor: 61 Outdoor: 63
Net Dimensions	W×D×H (mm)	1200×600×1813	1200×600×1813	1200×600×1813	1200×600×1813	1200×600×1813
Net Weight	(kg)	980/980/1081	980/980/1081	980/980/1081	980/980/1081	980/980/1081
Packing Dimensions	W×D×H (mm)	1295×600×1977	1295×600×1977	1295×600×1977	1295×600×1977	1295×600×1977
Gross Weight	(kg)	1025×1025×1215	1025×1025×1215	1025×1025×1215	1025×1025×1215	1025×1025×1215
Applicable Area	m²	150-200	150-200	150-200	150-200	150-200
Loading Quantity	(set)	7/14/22	7/14/22	7/14/22	7/14/22	7/14/22

- The data listed in the form only for reference, and the specific parameter shall refer to product nameplates.
- The applicable area of air conditioner is related to room orientation, insulation level, height of the building, the size and amount of the doors and windows, so that the applicable area is just for reference.
- Chunlian reserves the right to change the product design, specifications, and parameters. There is no specific notice if there appears any adjustment, please refer to product specifications and product nameplates.



Cassette Air Conditioners

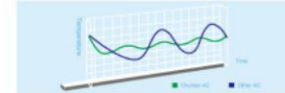
Intelligent control, energy-saving

Microcomputer system intelligent control, each component is always in the best state during the operation process, it also has many kinds of operation protection function to detect various faults. Which make it easier to finding faults, thus automatically protect the operation of the unit.



Intelligent temperature control

Constant temperature is guaranteed by intelligent precise temperature control, which will decide the cooling mode automatically according to the difference of ambient temperature and room temperature.



Low noise

By application of the finite element analysis technology and air flow field stimulation technology, noise from vibration of the compressor and other moving parts is decreased a lot.



High position water drainage operation

Maglev switch and special pump for indoor unit are designed according to the character of water drain from condenser. Water will be drained in high position regularly with relevant protections.



High efficient compressor

Chunlian air conditioner adopts famous brand and high efficient compressor to improve the refrigeration efficiency, the efficiency is 5% more than the ordinary compressor.



High-density air filters

Adopting high efficient air filter, which removes dust up to 78.6%, better than the most ordinary filters. The filter keeps the inside of the unit cleaner and then translates into cleaner air.



Application Area: shops, factories, offices, clubs, restaurants and other places.





CC-24 CC-24R

CC-24R/Wa



CC-42/-S CC-42R/-S CC-42R/HWaS

CC-42/HS CC-42R/HS CC-42R/HWaS

Performance		Model	CC-24(R)	CC-42(R)/-S	CC-42(R)/HS
Refrigerant			R22	R22	R22
Cooling Capacity	Btu/h		24000	42000	42000
Heating Capacity	Btu/h		26000	45000	45000
Power supply	Ph, V~, Hz		1,220,50	3,380,50	3,380,50
Rated Cooling Power Input	W		2750	4700	3900
Rated Heating Power Input	W		2750	4800	3900
Rated Cooling Operating Current	A		12.5	7.1	6.0
Rated Heating Operating Current	A		12.5	7.2	6.0
Air Flow Volume(indoor)	m³/h		1200	1750	1750
Noise Level	(dB(A))				
	Indoor		48	52	52
	Outdoor		60	60	60
Net Dimensions	W×D×H				
	Inside (mm)		950×950×305	950×950×365	950×950×365
	Outside (mm)		950×310×745	1000×410×1157	1000×410×1157
Net Weight	(kg)				
	Indoor/Outdoor		39/64	44/103	44/113
Packing Dimensions	W×D×H				
	Indoor (mm)		900×900×305	905×915×370	905×915×370
	Panel (mm)		1045×1015×170	1045×1015×175	1045×1015×175
	Outdoor (mm)		1125×420×875	1100×480×1355	1100×480×1355
Gross Weight	(kg)				
	Indoor/Outdoor		48/72	40(13)/118	40(13)/128
Applicable Area	m²		40-56	60-120	60-120
Loading Quantity	(set)		20/42/40/HQ	28/66/70	20/44/48

Performance		Model	CC-24R/Wa	CC-42R/WaS	CC-42R/HWaS
Refrigerant			R410a	R410a	R410a
Cooling Capacity	Btu/h		24000	42000	42000
Heating Capacity	Btu/h		26000	45000	45000
Power supply	Ph, V~, Hz		1,220,50	3,380,50	3,380,50
Rated Cooling Power Input	W		2750	4320	3900
Rated Heating Power Input	W		2700	4420	3900
Rated Cooling Operating Current	A		12.8	7.4	6.0
Rated Heating Operating Current	A		12.5	7.5	6.0
Air Flow Volume(indoor)	m³/h		1200	1750	1750
Noise Level	(dB(A))				
	Indoor		48	52	52
	Outdoor		60	60	60
Net Dimensions	W×D×H				
	Inside (mm)		950×950×305	950×950×365	950×950×365
	Outside (mm)		950×310×745	1000×410×1157	1000×410×1157
Net Weight	(kg)				
	Indoor/Outdoor		39/62	44/103	44/113
Packing Dimensions	W×D×H				
	Indoor (mm)		900×900×305	905×915×370	905×915×370
	Panel (mm)		1045×1015×170	1045×1015×175	1045×1015×175
	Outdoor (mm)		1125×420×875	1100×480×1355	1100×480×1355
Gross Weight	(kg)				
	Indoor/Outdoor		48/70	40(13)/118	40(13)/128
Applicable Area	m²		40-56	60-120	60-120
Loading Quantity	(set)		20/42/40/HQ	28/66/70	20/44/48

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Duct Air Conditioners

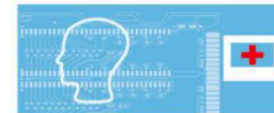
High efficient compressor

Chunlian duct air conditioner adopts high efficient compressor to increase the efficiency of refrigeration, the efficiency is 5% more than the ordinary compressor.



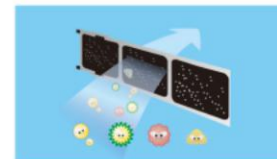
Automatic fault diagnosis

The intelligent automatic fault diagnosis function enables the unit to detect the running status by itself so that the maintenance can be carried out in time.



High-density air filters

The high density air filter is made by high density organic fibres, which removes dust up to 78.6%, better than the most ordinary filters. The filter keeps the inside of the unit cleaner and then translates into cleaner air.



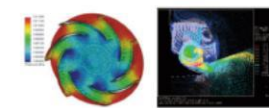
Various control method

Chunlian duct air conditioner provides two kinds of control mode including remote control, wire control, allowing you to easily control the operation of the unit.



Finite element analysis technology

By application of the finite element analysis technology and air flow field stimulation technology, noise from vibration of the compressor and other moving parts is decreased a lot.



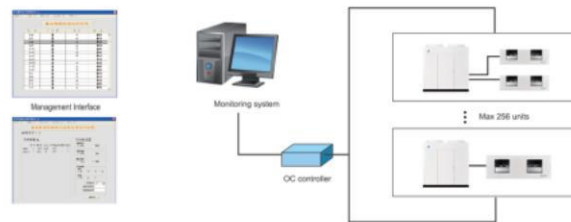
Healthy new fresh air technology

The air conditioning can supply fresh air through the network management and eliminate indoor dirty air. The effect is quickly and thoroughly and the air can keep pure and fresh.



Advanced Intelligent Centralized Control System

1. Perfect monitor and control function can monitor the operating situation of the units dynamically.
2. The number of network control can reach to 256 outdoor units, and the distance of centralized control signal can be 1000 meters away.
3. The outdoor units are built in high reliability communication modules. No need of external communication modules, which can facilitate the installation and maintenance.
4. 232485 photoelectric converter provides high anti-interference.
5. Enhanced type 485 communication chip with lightning protection device ensures that the whole units can work under various conditions.
6. One system can manage 16 groups of indoor units. Group installation enables all the air conditioners to open and close or modify parameters more conveniently.
7. The computer group control system can set to open or close the system timely and control the temperature freely according to customers' requirements.
8. The whole system is connected by a communication bus to remotely monitor the running status or operate all the units by computer. Each room is also installed remote control or line control to meet the requirement and control of individualized environments.



Multi Module Combination

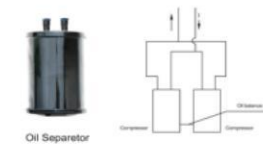
Chunlian module duct air conditioner units with flexible combination can achieve the combination of 256 units at most. It can realize arbitrary combination from 20 HP to 5120 HP according to the building load demand, providing the best flexible and economic environmental solution.



High efficiency oil balance technology

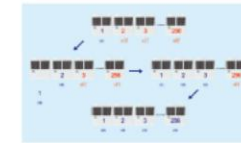
Oil return by vapor liquid separator
Accurate and unique oil return hole design, guaranteeing the compressor to realize stable and effective oil return. Besides, large capacity design can guarantee more cold media storage for the large system.

Oil balance between compressors
There is an oil balance pipe in the compressor to realize the oil balance between compressors through the interaction of the compressor and the system.



Intelligent start technology

When more than two units start to work, the units will start by sequence, so as to reduce the impact on power grid.



Vector control electronic expansion valve

Immediately tracking the control target of the system, using vector control and electronic expansion valve to guarantee the efficient operation of the system, and accurately control indoor temperature, thus making you feel comfortable and pleasant.



Wide range subtle step adjusting technology by electronic expansion valve helps to adjust the refrigerant flow rate in a wide range but small step according to ambient temperature and user demand.



Application Area

High static duct air conditioner: especially suitable for large supermarkets, shopping malls, workshop, libraries, leisure entertainments, hotels, and so on. It is quite suitable for large air conditioning engineering which has large space and long air-supplying distance.

Middle/low static duct air conditioner: it is widely used in small stores, hotels, restaurants, cafes, offices, conference rooms, etc., especially suitable for small commercial and civil building air conditioning engineering.





CDL-09R/Cd-4
CDL-12R/Cd-4
CDL-18R/Cd-4
CDL-24R/Cd-4



CDH-42R/AS
CDH-42R/AdS
CDH-42R/AWaS



CDM-42R/AS
CDM-42R/AdS
CDM-42R/AWaS



CDH-60R/-S
CDH-60R/dS
CDH-60R/WadS



CDHM-170R/(Q)FdS



CDH-170R/(Q)dS



CDH-96R/-S
CDH-96R/dS
CDH-96R/WadS



CDHM-200R/(Q)FdS



CDH-200R/(Q)dS

Performance	Model	CDL-09R/Cd-4	CDL-09R/Cd-2	CDL-12R/Cd-4	CDL-12R/Cd-2
Refrigerant		R22	R22	R22	R22
Cooling Capacity	Blu/h	9000	9000	12000	12000
Heating Capacity	Blu/h	9000(2900)	9000(2900)	12000(4100)	12000(4100)
Power Supply	PH, V, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	1050	890	1480	1280
Rated Heating Power Input	W	1050(850)	795(850)	1460(1200)	1280(1200)
Rated Cooling Operating Input	A	4.8	4.1	6.8	5.9
Rated Heating Operating Input	A	4.8(4.0)	3.6(4.0)	6.7(5.5)	5.9(5.5)
Air Flow Volume (indoor unit)	m ³ /h	420	420	600	600
Noise Level (dB(A))	Indoor	28-36	28-36	31-39	31-39
	Outside	50	50	52	52
Net Dimensions WxDxH	Indoor(mm)	888X466X234	888X466X234	888X466X234	888X466X234
	Outdoor(mm)	650X250X506	650X250X506	760X250X537	760X250X537
Net Weight (kg)	Indoor/Outdoor	24/28	25/28	26/35	26/35
Packing Dimensions WxDxH	Indoor(mm)	930X510X293	930X510X293	930X510X293	930X510X293
	Outdoor(mm)	775X345X545	775X345X545	885X346X592	885X346X592
Gross Weight (kg)	Indoor/Outdoor	26/33	27/33	28/40	28/40
Pipe Size (inch)	Liquid Pipe	1/4"	1/4"	1/4"	1/4"
	Gas Pipe	3/8"	3/8"	1/2"	1/2"
Applicable Area	m ²	12-17	12-17	16-25	16-25
Loading Quantity (sets)		20/40/40HQ	95/205/235	85/180/205	85/180/205

Performance	Model	CDL-18R/Cd-4	CDL-18R/Cd-2	CDL-24R/Cd-4	CDL-24R/Cd-2
Refrigerant		R22	R22	R22	R22
Cooling Capacity	Blu/h	18000	18000	24000	24000
Heating Capacity	Blu/h	18000(5100)	18000(5100)	24000(7850)	24000(7850)
Power Supply	PH, V, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	2100	1760	2960	2500
Rated Heating Power Input	W	2000(1500)	1620(1500)	2920(2300)	2300(2300)
Rated Cooling Operating Input	A	9.6	8.0	13.6	11.7
Rated Heating Operating Input	A	9.2(8.8)	7.4(8.8)	13.4(10.5)	10.8(10.5)
Air Flow Volume (indoor unit)	m ³ /h	800	800	1500	1500
Noise Level (dB(A))	Indoor	35-43	35-43	38-46	38-46
	Outside	54	54	58	58
Net Dimensions WxDxH	Indoor(mm)	1088X466X234	1088X466X234	1260X555X226	1260X555X226
	Outdoor(mm)	823X275X646	823X275X646	950X310X745	950X310X745
Net Weight (kg)	Indoor/Outdoor	28/48	28/48	44/65	46/65
Packing Dimensions WxDxH	Indoor(mm)	1130X510X293	1130X510X293	1385X595X255	1385X595X255
	Outdoor(mm)	965X380X680	965X380X680	1125X420X875	1125X420X875
Gross Weight (kg)	Indoor/Outdoor	30/55	30/55	48/75	50/75
Pipe Size (inch)	Liquid Pipe	1/4"	1/4"	3/8"	3/8"
	Gas Pipe	1/2"	1/2"	5/8"	5/8"
Applicable Area	m ²	20-35	20-35	30-50	30-50
Loading Quantity (sets)		20/40/40HQ	65/140/160	48/105/125	48/105/125

Remark: 1. Cooling condition: Indoor dry-bulb temperature 27°C, wet-bulb temperature 19°C, Outdoor dry-bulb temperature 35°C, wet-bulb temperature 24°C.
2. Heating condition: Indoor dry-bulb temperature 20°C, Outdoor dry-bulb temperature 7°C, wet-bulb temperature 6°C.

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Performance		Model	CDM-42R/A(d)S	CDM-42R/AW/S	CDH-42R/A(d)S	CDH-42R/AW/S
Refrigerant		R22	R410a	R22	R410a	
Cooling Capacity	Btu/h	42000	42000	42000	42000	
Heating Capacity	Btu/h	45000(8900)	45000	45000(10200)	45000	
Power Supply	PH, V-, Hz	3, 380, 50	3, 380, 50	3, 380, 50	3, 380, 50	
Rated Cooling Power Input	W	4900	4000	4950	4000	
Rated Heating Power Input	W	4400(2600)	3800	4650(3000)	3800	
Rated Cooling Operating Input	A	8.4	6.8	8.6	6.8	
Rated Heating Operating Input	A	7.8(12.0)	6.7	8.2(5.0)	6.7	
Air Flow Volume (indoor unit)	m ³ /h	1900	1900	2100	2100	
Noise Level (dB(A))						
	Inside	42~50	42~50	49~55	49~55	
	Outside	60	60	60	60	
Net Dimensions WxDxH						
	Indoor(mm)	1150X750X285	1150X750X285	934X618X402	934X618X402	
	Outdoor(mm)	1000X410X1157	1000X410X1157	1000X410X1157	1000X410X1157	
Net Weight (kg)	Indoor/Outdoor	52(54)/103	52/113	42(49)/103	42/113	
Packing Dimensions WxDxH						
	Indoor(mm)	1255X799X315	1255X799X315	1030X645X430	1030X645X430	
	Outdoor(mm)	1100X480X1355	1100X480X1355	1100X480X1355	1100X480X1355	
Gross Weight (kg)	Indoor/Outdoor	58(60)/118	58/128	50(61)/118	50/128	
Pipe Size (inch)						
	Liquid Pipe	1/2"	1/2"	1/2"	1/2"	
	Gas Pipe	3/4"	3/4"	3/4"	3/4"	
Applicable Area	m ²	60-120	60-120	60-120	60-120	
Loading Quantity (sets)		20/40/40/HQ	24/48/48	24/48/48	24/48/48	

Performance		Model	CDH-96R/-S	CDH-96R/dS	CDH-96R/WadS
Refrigerant		R22	R22	R410a	
Cooling Capacity	Btu/h	96000	96000	96000	
Heating Capacity	Btu/h	100000	100000(30700)	100000	
Power Supply	PH, V-, Hz	3, 380, 50	3, 380, 50	3, 380, 50	
Rated Cooling Power Input	W	11300	11300	10000	
Rated Heating Power Input	W	9500	9500(9000)	9200	
Rated Cooling Operating Input	A	16.9	16.9	16.8	
Rated Heating Operating Input	A	16.4	16.4(13.6)	15.9	
Air Flow Volume (indoor unit)	m ³ /h	4500	4500	4500	
Noise Level (dB(A))					
	Inside	55~61	55~61	55~61	
	Outside	63	63	63	
Net Dimensions WxDxH					
	Indoor(mm)	1870X618X402	1870X618X402	1870X618X402	
	Outdoor(mm)	980X980X1061	980X980X1061	980X980X1061	
Net Weight (kg)	Indoor/Outdoor	85/182	99/182	85/192	
Packing Dimensions WxDxH					
	Indoor(mm)	2010X665X430	2010X665X430	2010X665X430	
	Outdoor(mm)	1026X1026X1215	1026X1026X1215	1026X1026X1215	
Gross Weight (kg)	Indoor/Outdoor	100/212	122/212	100/222	
Pipe Size (inch)					
	Liquid Pipe	5/8"	5/8"	5/8"	
	Gas Pipe	9/8"	9/8"	9/8"	
Applicable Area	m ²	140-280	140-280	140-280	
Loading Quantity (sets)		20/40/40/HQ	10/22/32	10/22/30	10/22/32

Performance		Model	CDH-60R/-S	CDH-60R/dS	CDH-60R/WadS
Refrigerant		R22	R22	R410a	
Cooling Capacity	Btu/h	60000	60000	60000	
Heating Capacity	Btu/h	63000	63000(20500)	63000	
Power Supply	PH, V-, Hz	3, 380, 50	3, 380, 50	3, 380, 50	
Rated Cooling Power Input	W	7000	7000	6100	
Rated Heating Power Input	W	6200	6200(6000)	6000	
Rated Cooling Operating Input	A	11.7	11.7	10.2	
Rated Heating Operating Input	A	10.4	10.4(10.0)	10.0	
Air Flow Volume (indoor unit)	m ³ /h	3100	3100	3100	
Noise Level (dB(A))					
	Inside	50~56	50~56	50~56	
	Outside	61	61	61	
Net Dimensions WxDxH					
	Indoor(mm)	1377X618X402	1377X618X402	1377X618X402	
	Outdoor(mm)	1020X450X1357	1020X450X1357	1020X450X1357	
Net Weight (kg)	Indoor/Outdoor	65/150	76/150	65/156	
Packing Dimensions WxDxH					
	Indoor(mm)	1510X645X430	1510X645X430	1510X645X430	
	Outdoor(mm)	1140X500X1500	1140X500X1500	1140X500X1500	
Gross Weight (kg)	Indoor/Outdoor	77/175	99/175	99/181	
Pipe Size (inch)					
	Liquid Pipe	1/2"	1/2"	1/2"	
	Gas Pipe	7/8"	7/8"	7/8"	
Applicable Area	m ²	85-170	85-170	85-170	
Loading Quantity (sets)		20/40/40/HQ	22/46/46	22/46/46	

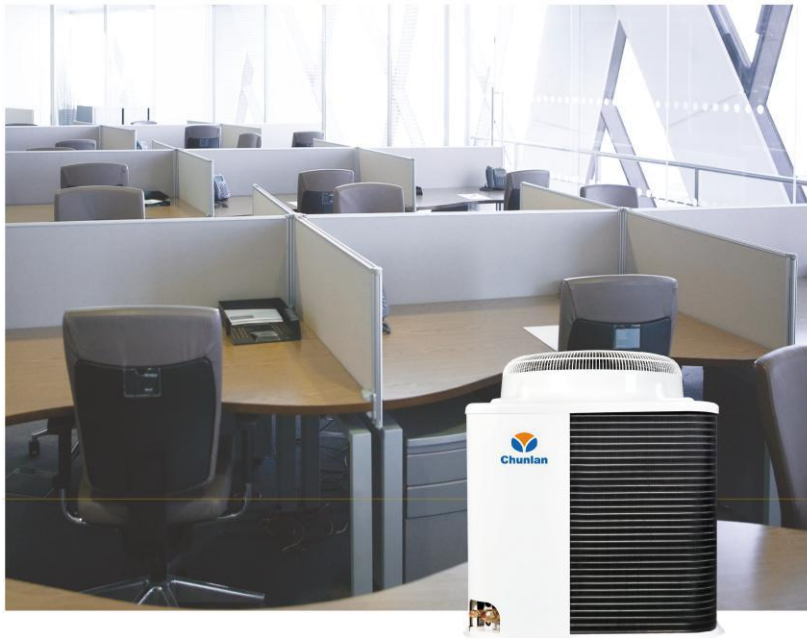
Remark: 1. Cooling condition: Indoor dry-bulb temperature 27°C, wet-bulb temperature 19°C, Outdoor dry-bulb temperature 35°C, wet-bulb temperature 24°C.
2. Heating condition: Indoor dry-bulb temperature 20°C, Outdoor dry-bulb temperature 7°C, wet bulb temperature 6°C.

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Performance		Model	CDH-170R/(Q)dS	CDH-200R/(Q)dS	CDHM-170R/(Q)F4S	CDHM-200R/(Q)F4S
Refrigerant		R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	170000	200000	85000X2	102000X2	
Heating Capacity	Btu/h	178000(34100)	210000(34100)	89000X2(34100)	105700X2(9000)	
Power Supply	PH, V-, Hz	3, 380, 50	3, 380, 50	3, 380, 50	3, 380, 50	
Rated Cooling Power Input	W	21000	24200	10500X2	10500X2	
Rated Heating Power Input	W	20000(10000)	24000(15000)	10000X2	12000X2(9000)	
Rated Cooling Operating Input	A	35	40.5	17.0X2	20X2	
Rated Heating Operating Input	A	34.5(17.0)	40.3(25.5)	17.0X2	20X2(17.0)	
Air Flow Volume (indoor unit)	m ³ /h	9000	10000	4500X2	5000X2	
Noise Level (dB(A))						
	Inside	60	71	60	63	
	Outside	65	74	65	74	
Net Dimensions WxDxH						
	Indoor(mm)	1800X818X800	1800X850X860	(1800X618X400)X2	(1800X618X400)X2	
	Outdoor(mm)	1920X960X2000	1920X960X2000	1920X960X2000	1920X960X2000	
Net Weight (kg)	Indoor/Outdoor	208/580	208/580	85X2/518	85X2/580	
Packing Dimensions WxDxH						
	Indoor(mm)	2010X865X830	2010X897X890	(2010X665X430)X2	(2010X665X430)X2	
	Outdoor(mm)	2074X1114X2189	2074X1114X2189	2074X1114X2189	2074X1114X2189	
Gross Weight (kg)	Indoor/Outdoor	200/568	228/640	100X2/578	100X2/640	
Pipe Size (inch)						
	Liquid Pipe	1"	1"	5/8"	5/8"	
	Gas Pipe	1 1/8"	1 1/8"	9/8"	9/8"	
Applicable Area	m ²	280-500	280-500	280-500	280-500	
Loading Quantity (sets)		20/40/40/HQ	4/8/8	4/8/8	4/8/8	

Remark: 1. Cooling condition: Indoor dry-bulb temperature 27°C, wet-bulb temperature 19°C, Outdoor dry-bulb temperature 35°C, wet-bulb temperature 24°C.
2. Heating condition: Indoor dry-bulb temperature 20°C, Outdoor dry-bulb temperature 7°C, wet bulb temperature 6°C.

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Multi-Connected DC Inverter Air Conditioning System

Features

- World leading modularization inverter multi-connected air-conditioning system, for seamless connecting
- World leading oil separation/return technology, break the world record of VRV connection quantity
- Unique digitalize self adaptive intelligent control system, higher reliability and efficiency, and lower operational cost
- Super high efficient, and energy saving
- Advanced multisystem control system
- Accurate Temperature Control
- Various indoor terminals selection
- Comprehensive protection function



Three proprietary technology

- Advanced modularized inverter multi-connection technology to realize seamless connection
- Advanced oil separate and oil return technology, Breaking the world record of the VRV units connection quantity
 1. Proprietary oil return software, ensure sufficient oil available
 2. Proprietary oil throw technology, protect the compressor from excessive oil
 3. Specially designed efficient oil/gas separator, ensure the enough lubricant oil in the system, prevent slugging and running without enough oil
- Unique digitalized self-adaptive intelligent control system. Reliability, efficiency and profitability are great improved

New generation high pressure cavity DC inverter scroll compressor

High rigidity compression shell
Exclusive high-precision asymmetric vortex disk
Internal oil separation mechanism
High performance neodymium magnetic material rotor
Magnetic resistance type DC motor
The compressor automatically oil-throw
Compressor oil volume control device



The new generation DC inverter compressor with 4 optimized protection functions, which ensures compressor operation more smoothly and efficiently.

Demagnetization protection
Anti frost protection (Protection against high temperature)
Over-current protection

The advantages of high pressure cavity DC inverter scroll compressor

The stability of high pressure cavity compressor is better than low pressure cavity one
The capacity rate of high pressure cavity compressor is higher
The low temperature heating performance of high pressure cavity compressor is better
The high pressure cavity compressor exhausts noise is lower
Asymmetric vortex disk structure design improves the operation efficiency

Asymmetric vortex disk structure design improves the operation efficiency.



Compressor parallel connection energy-saving control technology

Compressor parallel connection technology

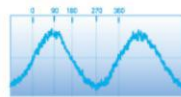
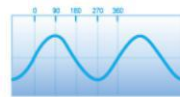
Several compressors share a set of condenser, when one or more stop work, it equals to the heat transfer area of the condenser increases exponentially

Condenser adjustment technology

Since the DC invert compressor's energy efficiency is the highest under specific partial load, the condenser use electronic expansion valve control design, according to the unit load, adjusting the electronic expansion valve, enable the compressor to maintain efficient running state under partial load

HVAC industry's leading invert control technology

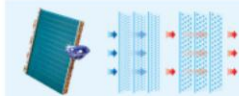
PAM180°DC invert control technology with own patent.



Chunlan high efficiency inner grooved copper tube/aluminum fin



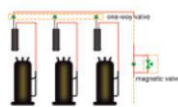
High efficiency inner grooved copper tube with W-shape.



Blue diamond high efficiency aluminum fin.

Advanced refrigerant control technology

Advanced refrigerant processing technology.



Multi-electronic expansion valve adjustment technology.



Patent throttling components with high quality.

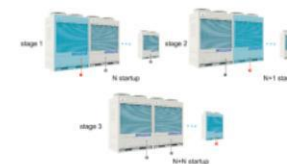


Rotation Technology

Intelligent rotation running technology, auto rotation setting decides the start priority of certain outdoor unit module and compressor. Average distribute the working time between every outdoor unit module, the module's compressor and different module's compressor, which can effectively increase the working life of the compressor.

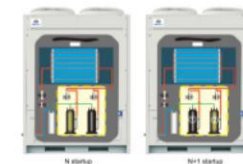
Rotation Technology of the outdoor unit module

Module compressor's rotation technology combine with the outdoor unit module's rotation technology, then the compressor' rotation between the modules can be achieved.

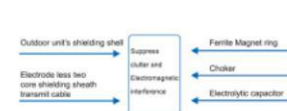


Rotation Technology of single module

Module compressor's rotation technology, then the compressor's rotation within the module can be achieved.



Suppress Electromagnetic interference



Chunlan devote to solve the air conditioner's electromagnetic interference, use outdoor unit's choker and electrolytic capacitor to suppress ultra sub harmonic. In the same time, the outdoor unit use shielding shell, Electrode less two core shielding sheath transmit line and Ferrite magnet ring, it could suppress the clutter's interference, especially suitable for communication, bank, precision lab and places which requires high quality, health life.

The refrigerant pressure' detection technology

With the refrigerant pressure' detection technology, the system works in stable and efficient condition.

The quick and exactly detection on the system's refrigerant condition is the guarantee of the system efficient work. Chunlan CDM/VIII Inverter Multi-Connected unit not only use the temperature sensor to detect the unit working information, also it can quickly, entirely, accurately detect the refrigerant state by using high pressure and low pressure sensor. Self adoption of the system refrigerant's requirement, make the system working in stable and higher efficient condition.

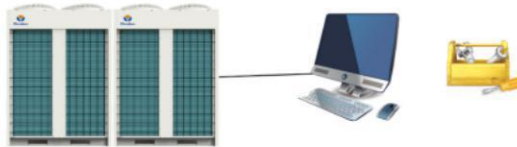


Comprehensive protection function



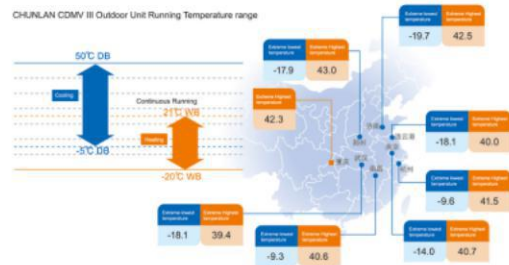
- 1 Exhaust temperature protection
- 2 Driver module protection function
- 3 Default phase reverse phase protection function
- 4 Refrigerant shortage protection
- 5 Compressor running current protection

Fault memory function

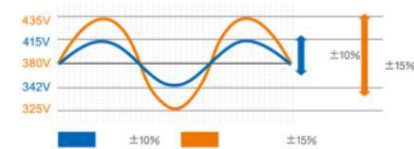


Wide running condition for the outdoor unit, flexibly suit for various temperature conditions

Wider running temperature range for the outdoor unit, which is suitable for different temperature conditions. Even under very bad temperature condition, the system can run stably



Wide voltage design, coping with the power consumption peak



Wide system volume, Limitless volume combination

By modularized design, system volume increases progressively with 2HP. No gaps exist between the units. Seamless connection is really realized. Units connected in parallel can be more than 10pcs and maximum capacity can be more than 200HP.

Household VRV system

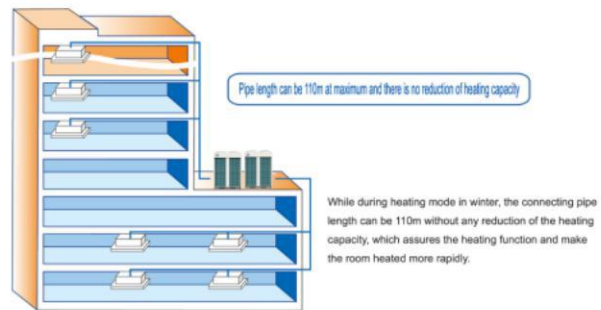


Modularized VRV system



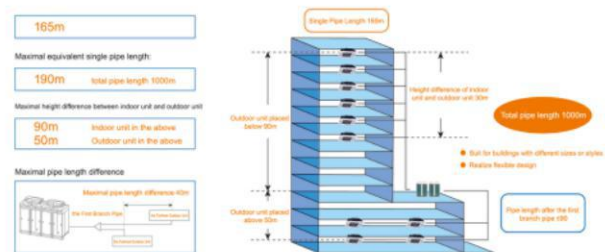
There is no capacity limit for the unit connection. Parallel connected system capacity can be more than 200HP

Pipe length reaches 110m without reduction of heating capacity



Ultra long refrigerant pipe, free design and construction

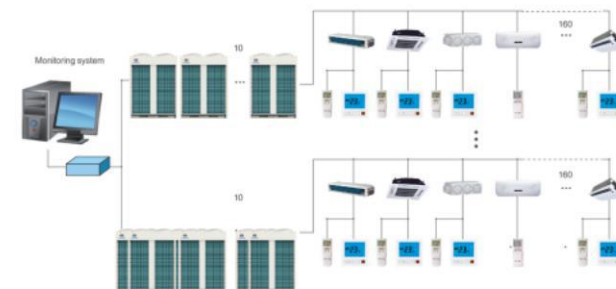
Maximal single pipe length:



Notes:

1. Pipe length after the first branch pipe more than 40m should meet certain conditions. Please consult Chunlian Engineers for details.
2. Applicable for 350 or above models.
3. 250/300 model: total pipe length is 510m; maximal single pipe length is 120m; maximal equivalent single pipe length is 140m; maximal height difference of between indoor units is 15m; maximal height difference between indoor unit and outdoor unit is 50m.

Application Area: school, home, restaurant, supermarket, hotel and other area.





outdoor unit

Model	Cooling Capacity (kW)		Heating Capacity (kW)		Power Supply	Weight (kg)	Rated Load	Refrigerant	Charge (kg)	Pipe Size (mm)		Temp. Range (°C)		Dimension (mm)			Max. Pipe Length (m)	Max. Pipe Weight (kg)					
	Cooling (kW)	Heating (kW)	Cooling (kW)	Heating (kW)			Gas (kg)			Liquid (kg)	Cooling (°C)	Heating (°C)	W (mm)	D (mm)	H (mm)								
CDMV-R224W/SPW	22.4	25	5.1	5.5	8.6	9.3	30V-3N-50Hz	R410A	11	28.8	15.86	5-30	20-21	920	760	1890	See Page 1						
CDMV-R228W/SPW	25	28	5.8	6.2	9.8	10.5												245	<57	12	920	760	1890
CDMV-R232W/SPW	25.2	29	5.9	6.3	9.9	10.6												246	<57	12.5	920	760	1890
CDMV-R236W/SPW	28	31.5	6.7	7.3	11.1	12.1												246	<58	13	920	760	1890
CDMV-R240W/SPW	30	33	7.2	7.8	12.2	13.3												248	<59	14	920	760	1890
CDMV-R250W/SPW	33.5	37	8.4	9.1	14.1	15.5												250	<60	15	920	760	1890
CDMV-R320W/SPW	35	39	9.3	9.5	15.5	16.2	30V-3N-50Hz	R410A	16					1220	760	1890							
CDMV-R400W/SPW	40	44	12.3	11	20.8	18.7												290	<60	17	1220	760	1890
CDMV-R500W/SPW	50	55	15.1	14.1	25.7	24												310	<62	18	1220	760	1890



the ultra-thin duct type

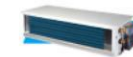
Model	Cooling Capacity (kW)		Heating Capacity (kW)		Air Flow (m³/h)	Noise Level (dB(A))	Refrigerant	Power Supply	Rated Power Input (kW)		Pipe Size (mm)		Dimension (mm)			Weight (kg)	Application Area (m²)
	Cooling	Heating	Cooling	Heating					Cooling	Heating	Gas	Liquid	W	D	H		
CDMV-R236/SPW	2.3	2.5	450	26.36	0	220V-50Hz	0	20	20	9.02	4.35	26.8	890	480	195	20	10-24
CDMV-R238/SPW	2.3	2.5/0.85	450	26.36	0	220V-50Hz	0	20	20	9.02	4.35	26.8	890	480	195	20	10-24
CDMV-R239/SPW	2.5	2.7	450	27.36	0	220V-50Hz	0	20	20	9.02	4.35	26.8	890	480	195	20	12-25
CDMV-R240/SPW	2.5	2.7/0.85	450	27.36	0	220V-50Hz	0	20	20	9.02	4.35	26.8	890	480	195	20	12-25
CDMV-R248/SPW	2.8	3	450	27.36	0	220V-50Hz	0	20	20	9.02	4.35	26.8	890	480	195	20	14-28
CDMV-R258/SPW	2.8	3.0/0.85	450	27.36	0	220V-50Hz	0	20	20	9.02	4.35	26.8	890	480	195	20	14-28
CDMV-R268/SPW	3.2	3.5	450	29.37	0	220V-50Hz	0	30	30	12.7	4.35	26.8	1020	480	195	22	16-32
CDMV-R278/SPW	3.2	3.5/1.2	450	29.37	0	220V-50Hz	0	30	30	12.7	4.35	26.8	1020	480	195	22	16-32
CDMV-R288/SPW	3.5	3.9	450	29.37	0	220V-50Hz	0	30	30	12.7	4.35	26.8	1020	480	195	22	17-35
CDMV-R298/SPW	3.5	3.9/1.2	450	29.37	0	220V-50Hz	0	30	30	12.7	4.35	26.8	1020	480	195	22	17-35
CDMV-R308/SPW	4.3	5	800	30.39	0	220V-50Hz	0	42	42	12.7	4.35	26.8	1240	480	195	23	22-43
CDMV-R318/SPW	4.3	5.0/1.5	800	30.39	0	220V-50Hz	0	42	42	12.7	4.35	26.8	1240	480	195	23	22-43
CDMV-R328/SPW	5	5.6	800	30.39	0	220V-50Hz	0	42	42	12.7	4.35	26.8	1240	480	195	24	25-50
CDMV-R338/SPW	5	5.6/1.5	800	30.39	0	220V-50Hz	0	42	42	12.7	4.35	26.8	1240	480	195	24	25-50
CDMV-R348/SPW	5.6	6.3	800	35.42	0	220V-50Hz	0	42	42	12.7	4.35	26.8	1240	480	195	24	28-55
CDMV-R358/SPW	5.6	6.3/1.5	800	35.42	0	220V-50Hz	0	42	42	12.7	4.35	26.8	1240	480	195	24	28-55
CDMV-R378/SPW	7.1	7.5	1300	35.42	0	220V-50Hz	0	116	116	15.88	9.02	26.8	1660	480	195	30	35-70
CDMV-R398/SPW	7.1	7.5/2300	1300	35.42	0	220V-50Hz	0	116	116	15.88	9.02	26.8	1660	480	195	30	35-70

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outdoor unit

Model	Cooling Capacity (kW)		Heating Capacity (kW)		Rated Power Input (kW)		Power Supply		Height (kg)	Noise Level (dB(A))	Refrigerant	Charge (kg)	Pipe Size (mm)		Temp. Range (°C)		Dimension (mm)			Max. Pipe Length (m)	Max. Pipe Weight (kg)
	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating					Gas	Liquid	Cooling	Heating	W	D	H		
CDMV-R102W/SPW	10	11	3.0	2.9	16	15.5	1N/220V/50Hz		95	<55	3.5	19.05	12.70				950	360	800	70	30
CDMV-R120W/SPW	12	13	3.8	3.6	20.2	19.2			130	<55	84/100	4	19.05	12.70			950	360	1120	70	30
CDMV-R140W/SPW	14	16	4.5	4.3	24.1	23.1			135	<55	8	19.05	12.70		15~43	15~21	950	360	1120	70	30
CDMV-R170W/SPW	17	18	5.1	4.9	27.3	26.4			140	<56	7	19.05	19.05				950	360	1120	70	30



standard type

Model	Cooling Capacity (kW)		Heating Capacity (kW)		Air Flow (m³/h)	Noise Level (dB(A))	Refrigerant	Power Supply	Rated Power Input (kW)		Pipe Size (mm)		Dimension (mm)			Weight (kg)	Application Area (m²)
	Cooling	Heating	Cooling	Heating					Cooling	Heating	Gas	Liquid	W	D	H		
CDMV-R236/SPW	2.3	2.5	420	26.36	30	220V-50Hz	0	15	15	9.02	4.35	26.8	888	464	234	24	10-24
CDMV-R238/SPW	2.3	2.5/0.85	420	26.36	30	220V-50Hz	0	15	15	9.02	4.35	26.8	888	464	234	24	10-24
CDMV-R239/SPW	2.5	2.7	420	26.36	30	220V-50Hz	0	15	15	9.02	4.35	26.8	888	464	234	24	12-25
CDMV-R240/SPW	2.5	2.7/0.85	420	26.36	30	220V-50Hz	0	15	15	9.02	4.35	26.8	888	464	234	24	12-25
CDMV-R248/SPW	2.8	3	420	26.36	30	220V-50Hz	0	15	15	9.02	4.35	26.8	888	464	234	24	14-28
CDMV-R258/SPW	2.8	3.0/0.85	420	26.36	30	220V-50Hz	0	15	15	9.02	4.35	26.8	888	464	234	24	14-28
CDMV-R268/SPW	3.2	3.5	400	31.39	30	220V-50Hz	0	30	30	12.7	4.35	26.8	888	464	234	25.5	14-32
CDMV-R278/SPW	3.2	3.5/1.2	400	31.39	30	220V-50Hz	0	30	30	12.7	4.35	26.8	888	464	234	25.5	14-32
CDMV-R288/SPW	3.5	3.9	400	31.39	30	220V-50Hz	0	30	30	12.7	4.35	26.8	888	464	234	25.5	17-35
CDMV-R298/SPW	3.5	3.9/1.2	400	31.39	30	220V-50Hz	0	30	30	12.7	4.35	26.8	888	464	234	25.5	17-35
CDMV-R308/SPW	4.5	5	800	35.43	30	220V-50Hz	0	42	42	12.7	4.35	26.8	1088	464	234	28	22-45
CDMV-R318/SPW	4.5	5.0/1.5	800	35.43	30	220V-50Hz	0	42	42	12.7	4.35	26.8	1088	464	234	28	22-45
CDMV-R328/SPW	5	5.6	800	35.43	30	220V-50Hz	0	42	42	12.7	4.35	26.8	1088	464	234	28	25-50
CDMV-R338/SPW	5	5.6/1.5	800	35.43	30	220V-50Hz	0	42	42	12.7	4.35	26.8	1088	464	234	28	25-50
CDMV-R348/SPW	5.6	6.3	800	35.43	30	220V-50Hz	0	42	42	12.7	4.35	26.8	1088	464	234	28	28-55
CDMV-R358/SPW	5.6	6.3/1.5	800	35.43	30	220V-50Hz	0	42	42	12.7	4.35	26.8	1088	464	234	28	28-55
CDMV-R378/SPW	7.1	7.5	1300	36.44	30	220V-50Hz	0	114	114	15.88	9.02	22	1260	555	226	46	35-70
CDMV-R398/SPW	7.1	7.5/2300	1300	36.44	30	220V-50Hz	0	114	114	15.88	9.02	22	1260	555	226	46	35-70
CDMV-R400/SPW	8	8.8	1300	36.44	30	220V-50Hz	0	160	160	15.88	9.02	22	1260	555	226	46	40-80
CDMV-R420/SPW	8	8.8/2300	1300	36.44	30	220V-50Hz	0	160	160	15.88	9.02	22	1260	555	226	46	40-80
CDMV-R440/SPW	9	9.5	2000	40.48	30	220V-50Hz	0	200	200	19.05	9.02	22	1260	555	226	46	45-90
CDMV-R460/SPW	9	9.5/2300	2000	40.48	30	220V-50Hz	0	200	200	19.05	9.02	22	1260	555	226	46	45-90
CDMV-R480/SPW	10	10.5	2000	40.48	30	220V-50Hz	0	200	200	19.05	9.02	22	1880	555	226	30	50-100
CDMV-R500/SPW	10	10.5/2300	2000	40.48	30	220V-50Hz	0	200	200	19.05	9.02	22	1880	555	226	30	50-100

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high static pressure duct type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level (dB(A))	Indoor Pressure (Pa)	Power Supply	Rated Power Input (W)		Pipe Size (mm)		Water Pipe Size (mm)			Dimension (mm)			Weight (kg)	Applicable Area (m²)
							Cooling	Heating	Gas	Liquid	W	D	H	W	D	H		
CDMV-R12P3/BP-W	12	13	2200	42-50	80	220V-50Hz	430	430	19.05	9.52	22	934	618	400	42	60-120		
CDMV-R12P3/BP-W	12.5	14	2200	42-50	80	220V-50Hz	430	430	19.05	9.52	22	934	618	400	42	60-125		
CDMV-R17P3/BP-W	17	18	3100	44-52	80	220V-50Hz	800	800	22.23	12.7	22	1377	619	402	45	85-170		
CDMV-R26P3/BP-W	26	29	4000	48-54	80	220V-50Hz	1800	1800	26.58	15.88	22	1870	619	402	85	140-280		



one-way cassette type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level (dB(A))	Indoor Pressure (Pa)	Power Supply	Rated Power Input (W)		Pipe Size (mm)		Water Pipe Size (mm)			Dimension (mm)			Weight (kg)	Applicable Area (m²)
							Cooling	Heating	Gas	Liquid	W	D	H	W	D	H		
CDMV-R32QG/BP-W	2.3	2.5/0.85	430	24-35	0	220V-50Hz	44	44	9.52	6.35	22	850	400	235	23	10-24		
CDMV-R32QG/BP-W	2.5	2.7/0.85	430	24-35	0	220V-50Hz	44	44	9.52	6.35	22	850	400	235	23	12-25		
CDMV-R32QG/BP-W	2.8	3.0/0.85	430	24-35	0	220V-50Hz	44	44	9.52	6.35	22	850	400	235	23	14-28		
CDMV-R32QG/BP-W	3.2	3.5/1.2	400	26-34	0	220V-50Hz	50	50	12.73	6.35	22	1300	435	198	23	14-32		
CDMV-R32QG/BP-W	3.5	3.9/1.2	400	26-34	0	220V-50Hz	50	50	12.7	6.35	22	1300	435	198	23	17-35		
CDMV-R32QG/BP-W	4.5	5.0/1.5	800	35-41	0	220V-50Hz	70	70	12.7	6.35	22	1300	435	198	35	22-45		
CDMV-R32QG/BP-W	5.0	5.4/1.5	800	35-41	0	220V-50Hz	70	70	12.7	6.35	22	1300	435	198	35	25-50		
CDMV-R32QG/BP-W	5.6	6.3/1.5	800	35-41	0	220V-50Hz	70	70	12.7	6.35	22	1300	435	198	35	85-95		



wall split type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level (dB(A))	Power Supply	Rated Power Input (W)		Pipe Size (mm)		Water Pipe Size (mm)			Dimension (mm)			Weight (kg)	Applicable Area (m²)
						Cooling	Heating	Gas	Liquid	W	D	H	W	D	H		
CDMV-R32G/BP-W	2.3	2.5	430	32-37	220V-50Hz	30	30	9.52	6.35	16	780	201	274	9	10-24		
CDMV-R32G/BP-W	2.5	2.7	500	33-38	220V-50Hz	32	32	9.52	6.35	16	780	201	274	9.3	12-25		
CDMV-R32G/BP-W	2.8	3.1	500	34-39	220V-50Hz	35	35	9.52	6.35	16	780	201	274	9.3	14-28		
CDMV-R32G/BP-W	3.2	3.5	540	36-41	220V-50Hz	40	40	12.7	6.35	16	780	201	274	9.3	16-32		
CDMV-R32G/BP-W	3.5	3.8	640	37-42	220V-50Hz	45	45	12.7	6.35	16	840	201	274	10.8	17-35		
CDMV-R40G/BP-W	4.5	5.0	800	40-45	220V-50Hz	50	50	12.7	6.35	16	840	201	274	10.8	22-45		
CDMV-R50G/BP-W	5.0	5.5	840	41-46	220V-50Hz	53	53	12.7	6.35	16	840	201	274	10.8	25-50		

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middle static pressure duct type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level (dB(A))	Indoor Pressure (Pa)	Power Supply	Rated Power Input (W)		Pipe Size (mm)		Water Pipe Size (mm)			Dimension (mm)			Weight (kg)	Applicable Area (m²)
							Cooling	Heating	Gas	Liquid	W	D	H	W	D	H		
CDMV-R12P3/BP-W	10	11	1900	42-50	50	220V-50Hz	300	300	19.05	9.52	14	1100	790	285	53	30-100		
CDMV-R12P3/BP-W	12	13	1900	42-50	50	220V-50Hz	300	300	19.05	9.52	14	1100	790	285	53	30-125		



four-way cassette type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level (dB(A))	Power Supply	Rated Power Input (W)		Pipe Size (mm)		Water Pipe Size (mm)			Dimension (mm)			Weight (kg)	Applicable Area (m²)
						Cooling	Heating	Gas	Liquid	W	D	H	W	D	H		
CDMV-R32G4/BP-W	5	5	800	40-45	220V-50Hz	90	90	12.7	6.35	22	930	930	305	30	8	25-50	
CDMV-R40G4/BP-W	6	6	900	40-45	220V-50Hz	90	90	12.7	6.35	22	930	930	305	30	8	30-60	
CDMV-R50G4/BP-W	6.5	7.1	1200	41-46	220V-50Hz	100	100	15.88	9.52	22	930	930	305	30	8	30-60	
CDMV-R70G4/BP-W	7	7.8	1200	41-46	220V-50Hz	100	100	15.88	9.52	22	930	930	305	30	8	30-70	
CDMV-R70G4/BP-W	7.5	8.3	1200	41-46	220V-50Hz	100	100	15.88	9.52	22	930	930	305	30	8	37-75	
CDMV-R90G4/BP-W	9	10	1400	43-48	220V-50Hz	140	140	19.05	9.52	22	930	930	363	44	8	40-90	
CDMV-R90G4/BP-W	9.5	10.5	1400	43-48	220V-50Hz	140	140	19.05	9.52	22	930	930	363	44	8	47-95	
CDMV-R120G4/BP-W	10	11	1400	43-48	220V-50Hz	140	140	19.05	9.52	22	930	930	363	44	8	50-100	
CDMV-R120G4/BP-W	12	13	1700	43-50	220V-50Hz	180	180	19.05	9.52	22	930	930	363	44	8	60-120	
CDMV-R120G4/BP-W	12.5	14	1700	43-50	220V-50Hz	180	180	19.05	9.52	22	930	930	363	44	8	62-125	



floor standing type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level (dB(A))	Indoor Pressure (Pa)	Power Supply	Rated Power Input (W)		Pipe Size (mm)		Water Pipe Size (mm)			Dimension (mm)			Weight (kg)	Applicable Area (m²)
							Cooling	Heating	Gas	Liquid	W	D	H	W	D	H		
CDMV-R32L/BP-W	5	5.4/1.6	800	35-43	0	220V-50Hz	42	42	12.7	6.35	26.8	500	395	1740	41	25-50		
CDMV-R36L/BP-W	5.6	6.3/1.6	800	35-43	0	220V-50Hz	42	42	12.7	6.35	26.8	500	395	1740	41	28-55		
CDMV-R40L/BP-W	7.1	7.3/2.000	1500	38-46	0	220V-50Hz	114	114	15.88	9.52	26.8	500	395	1740	43	35-70		
CDMV-R50L/BP-W	8	8.8/2.000	1500	38-46	0	220V-50Hz	140	140	15.88	9.52	26.8	500	395	1740	43	40-80		
CDMV-R60L/BP-W	9	9.5/2.000	2000	40-48	0	220V-50Hz	200	200	19.05	9.52	26.8	490	425	1915	46	45-90		
CDMV-R80L/BP-W	10	10.5/2.000	2000	40-48	0	220V-50Hz	200	200	19.05	9.52	26.8	490	425	1915	46	50-100		
CDMV-R120L/BP-W	12	12.0/2.000	2300	42-50	0	220V-50Hz	430	430	19.05	9.52	26.8	490	425	1915	50	60-120		

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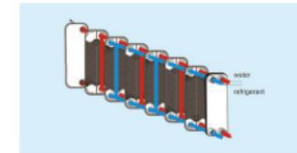
Modular Air Cooled (Heated) Water Chiller

Healthy fresh air technology

Unit connects directly to the fan coil to supply air, uniform distribution of cold and heat energy, with the new wind system it can greatly improve indoor air quality to make you enjoy good feeling as in star-rated hotel.

**Efficient plate heat exchanger**

Adopting the efficient braze plate heat exchanger, not only improve the energy efficiency coefficient, but also reduce the weight.

**High reliability components**

Adhering to Chunlian more than 50 years experience on design and manufacturing of refrigerating products, the simulation of air flow field, finite element analysis and the original core technology are widely used in Chunlian air cooled (heated) water chiller air conditioners, which are well performed with high reliability.

**Ultra-wide temperature regulation**

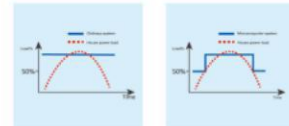
In summer, the chilled water temperature can reach to 5 °C - 20 °C; in winter, the heating water can reach to 30 °C - 55 °C, which fully satisfy cooling and heating demand of all level users.

**Wide climate adaptability**

Chunlian air cooled (heated) water chiller air conditioners can continually and reliably run in a wide temperature range (cooling: 10 to 52 °C; heating: -15 to 27 °C).

**Automatically adjusting power input**

The system uses microcomputer control, automatically adjust the units' input or with drawal according to the power load, to make whole system in highly efficient operation, and protecting the power system.

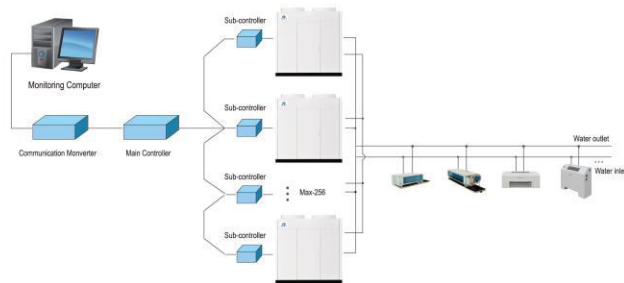
**Comfortable temperature regulation**

The system uses water as the heat exchange medium, which makes small temperature difference between air temperature and room temperature, and provides gentle and comfortable wind. The temperature of the water can be regulated ± 0.5 °C.



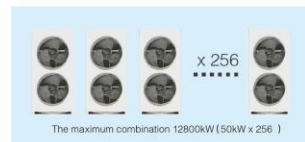
Advanced intelligent centralized control system

1. The control system is consisted of monitoring computer (optional), main controller and sub-controller.
2. Monitoring computer can monitor the operation of the units without being out of house. The master can be installed in the main electrical control box or in the control room to monitor and operate the unit, automatic run without attending and the rate of automatically opening and stopping one unit each time meets the changes in the load of the air conditioning system makes the unit run with the maximum efficiency in various state to save energy.
3. The sub-controller control one unit containing two independent cooling and heating fluorine systems.
4. The main controller and sub-controller adopt 485-way to communicate. Between the main controller and monitor computer, 485-232-way communication is adopted through communication converter module.
5. It is with remote control function, each system can control 256 modules at most through matching physical interface via RS485 communication protocol with building automation control function.



Flexibility combination

By its unique modularized combination style, Chunlian air cooled (heated) water chiller air conditioners can be combined freely and flexibly according to different environmental needs. The capacity range is from 100kW-12800kW.



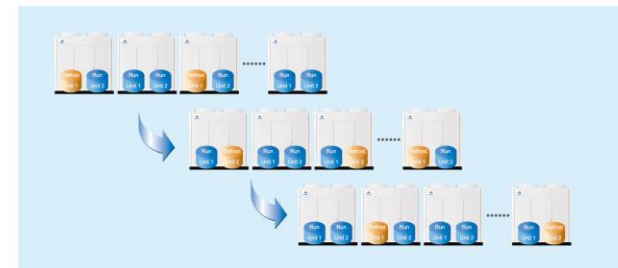
Any main control module design

In one combination, any unit can be run as the main control module, which be connected with monitoring computer, to coordinate each module operation in the combination and monitor the whole system operational state.



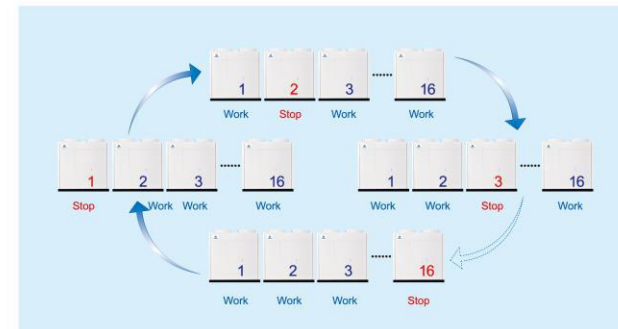
Alternate defrost technology

Since each unit module is an independent cooling system, the computer controls defrost of each unit module in winter makes defrost of each unit keep in alternate states to achieve a small range of water temperature fluctuations and the balance of the heating operation.



Alternative cycle duty design

In combination which compressor numbers more than or equal to 4 unit, the compressor that continuous works more than 24 hours will be stopped to standby; the compressor that stop more than 24 hours will automatically work, to realize the equal lifespan among the units in the combination.





Performance	Model	CL-42R/S	CL-60R/S	CL-66R/S
Refrigerant		R22	R22	R22
Cooling Capacity	Btu/h	42000	60000	66000
Heating Capacity	Btu/h	45000	63000	100000
Power Supply	PH, V, Hz	3, 380, 50	3, 380, 50	3, 380, 50
Rated Cooling Power Input	W	4500	5900	10800
Rated Heating Power Input	W	4450	6300	10400
Rated Cooling Operating Input	A	8.5	11.4	18.2
Rated Heating Operating Input	A	8.8	12.6	17.6
Noise Level	dB(A)	60	62	63
Net Dimensions WxDxH	mm	950X450X1157	950X450X1357	980X380X1061
Net Weight	kg	180	230	222
Packing Dimensions WxDxH	mm	1140X500X1300	1140X500X1500	1026X1026X1215
Gross Weight	kg	195	255	252
Applicable Area	m ²	60-120	85-170	140-280

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Model	LSQWRF60M/B-E4						
Cooling Capacity	kW	66	126	182	240	300	6000 (N=250)
	kcal/h	51600	101000	144600	194400	239800	516000
Heating Capacity	kW	66	122	181	240	300	6000
	kcal/h	52660	104300	157380	194400	242300	1246000
Power Input	kW	21	27x2	27x3	27x4	27x5	27x6
Power Supply	380V 3N-50Hz						
Compressor	Type	Hermetic Scroll Compressor					
Air Flow	m ³ /h	26000	52000	78000	104000	130000	260000
Water Flow	m ³ /h	10.3	20.6	30.9	41.2	51.5	10.300
Water Resistance	kPa	50	52.3	55	57.5	60	50+2.3 (N=1)
Net Weight	kg	550	550x2	550x3	550x4	550x5	550x6
Refrigerant	R22						
Charging volume	kg	7.5x2	7.5x4	7.5x6	7.5x8	7.5x10	7.5x20
Pipe Diameter and type	DN60 Flange connection						
Dimension	WxDxHmm	1600x800x1900 (Single Modular)					
Ambient temperature	℃	-7~43					

Model	LSQWRF65M-E4						
Cooling Capacity	kW	65	130	195	260	325	6500 (N=250)
	kcal/h	50900	111800	167700	223600	279500	509000
Heating Capacity	kW	66	122	180	240	300	6000
	kcal/h	56760	113320	172080	227040	283800	567600
Power Input	kW	22.7	22.7x2	22.7x3	22.7x4	22.7x5	22.7x6
Power Supply	380V 3N-50Hz						
Compressor	Type	Hermetic Scroll Compressor					
Air Flow	m ³ /h	26000	52000	78000	104000	130000	260000
Water Flow	m ³ /h	11.2	22.4	33.6	44.8	56	11.200
Water Resistance	kPa	50	52.3	55	57.5	60	50+2.3 (N=1)
Net Weight	kg	580	580x2	580x3	580x4	580x5	580x6
Refrigerant	R22						
Charging volume	kg	7.5x2	7.5x4	7.5x6	7.5x8	7.5x10	7.5x20
Pipe Diameter and type	DN60 Flange connection						
Dimension	WxDxHmm	1600x800x1900 (Single Modular)					
Ambient temperature	℃	-7~43					

Model	LSQWRF65M-E2						
Cooling Capacity	kW	65	130	195	260	325	6500 (N=250)
	kcal/h	50900	111800	167700	223600	279500	509000
Heating Capacity	kW	66	122	180	240	300	6000
	kcal/h	55980	111800	167700	223600	279500	559800
Power Input	kW	19.9	19.9x2	19.9x3	19.9x4	19.9x5	19.9x6
Power Supply	380V 3N-50Hz						
Compressor	Type	Hermetic Scroll Compressor					
Air Flow	m ³ /h	26000	52000	78000	104000	130000	260000
Water Flow	m ³ /h	11.2	22.4	33.6	44.8	56	11.200
Water Resistance	kPa	50	52.3	55	57.5	60	50+2.3 (N=1)
Net Weight	kg	580	580x2	580x3	580x4	580x5	580x6
Refrigerant	R22						
Charging volume	kg	8.5x2	8.5x4	8.5x6	8.5x8	8.5x10	8.5x20
Pipe Diameter and type	DN60 Flange connection						
Dimension	WxDxHmm	1600x800x1900 (Single Modular)					
Ambient temperature	℃	-7~43					

Model		LSQWRF160M/A-E4									
Cooling Capacity	W	160	120	600	480	800	1600	16~256			
	kcal/h	137000	270000	412000	330400	688000	*****				1370000
Heating Capacity	W	160	120	600	480	800	1600	16~256			
	kcal/h	137000	270000	412000	330400	688000	*****				1370000
Power Input	W	35	35x2	35x3	35x4	35x5	35x6	35x7	35x8	35x9	35x10
	kW	0.081	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Power Supply		380V 3W 50Hz									
Compressor	Type	Hermetic Scroll Compressor									
Air Flow	m ³ /h	73000	144000	216000	288000	369000	*****				720000
Water Flow	m ³ /h	27.5	30	80.5	110	137.5	*****				27340
Water Resistance	kPa	130	120.5	81.5	121.5	140.5	*****				100~1.5 (1~1)
Net Weight	kg	1400	1400x2	1400x3	1400x4	1400x5	*****				1400x10
Refrigerant		R22									
Charging volume	kg	21x2	21x4	21x6	21x8	21x10	*****				21x20
Pipe Diameter and type		Chiller Flange connection									
Diameter	inch/mm	20x20/50.8x50.8 (Single Inlet)									
Ambient temperature	℃	-7~43									

Model		LSQWR65MDW						
Cooling Capacity	kW	65	130	195	260	325	*****	835N (N=250)
	kcal/h	22080	44160	66240	88320	110400	*****	3399000
Heating Capacity	kW	79	158	237	316	395	*****	835N (N=250)
	kcal/h	60200	120400	180600	240800	301000	*****	602000
Power Input	kW	15.6	15.6Δ	15.6Δ	15.6Δ	15.6Δ	*****	75.0000
Power Supply		3ØV/3~50Hz						
Type		Hermetic, Scroll Compressor						
Air Flow	m³/h	20500	41000	79000	104500	130000	*****	3650000
Water Flow	m³/h	11.2	22.4	33.6	44.8	56	*****	11200
Water Resistance	kPa	58	57.5	55	57.5	60	*****	58±2.5 (N=1)
Net Weight	kg	580	580Δ	580Δ	580Δ	580Δ	*****	580Δ
Refrigerant		R22						
Charging volume	kg	5.5Δ	5.5Δ	5.5Δ	5.5Δ	5.5Δ	*****	5.5ΔN
Pipe Diameter and type		DN20 Flange connection						
Dimension	WxDxHmm	1600x800x1900 (Single Modular)						

Model		LSQWRF130MDW						
Cooling Capacity	kW	130	200	380	520	650	1300N (N=25)	
	kcal/h	11180	22360	3300	44720	55900		111800N
Heating Capacity	kW	130	200	380	520	650		1300N
	kcal/h	11180	22360	3300	44720	55900		111800N
Power Input	kW	39.5	39.5x2	39.5x3	39.5x4	39.5x5		39.5x6
Power Supply		380V 3N~50Hz						
Compressor	Type	Hermetic Scroll Compressor						
Air Flow	m ³ /h	52000	94000	164000	209000	260000		520000
Water Flow	t/h	22.4	44.8	81.6	85.6	103		22.400
Water Resistance	kPa	20	72.5	75	77.5	80		70.4±2.5
Net Weight	kg	1200	1200x3	1200x4	1200x4	1200x5		1200x6
Refrigerant		R23						
Charging volume	kg	8.5x4	8.5x5	8.5x12	8.5x15		8.5x20	8.5x30
Pipe Diameter and Size		1800x1800x1800 (Single Modular)						
Dimension	WxDxH(mm)	1800x1800x1800 (Single Modular)						
Ambient temperature	°C	-20~43						

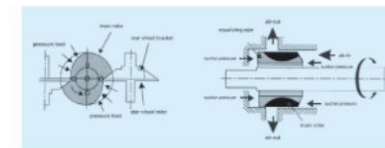
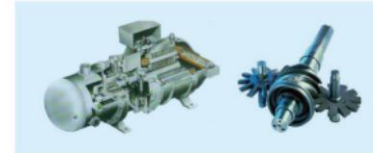


Water Cooled Screw Chiller

Advanced Screw Compressor

F-Series(Single-Screw Compressor)

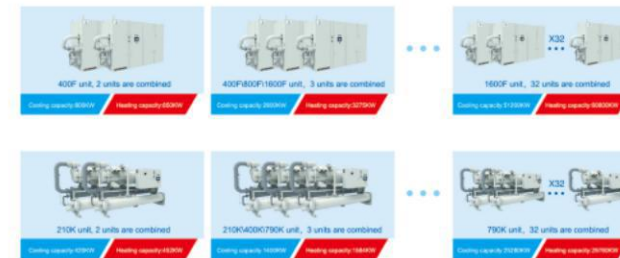
The overall design is quite compact, with the main rotor, the star wheel as the main moving parts, the F compressor has low possibility of downtime, high reliability and is very easy to maintain; Symmetrical compression process and balanced radial and axial load-carrying capability greatly reduce the bearing wear and load;



Steady exhaust and engaging wheels structure avoid sine wave. With Steady balanced operation and tiny vibration, the unit noise is decreased about 8db.

Multi units combination, wide application range

Chunlian screw type chiller has powerful combination function. The quantity can be freely combined to realize specific cooling capacity. In this way the different space requirement can be met, and best environment solution can be provided to the customer.



K-Series(Double-Screw Compressor)

World-famous brand semi-hermetic double-screw compressor is used. Its advanced 5-6 asymmetrical gear is energy saving. It also have following advantages: simple structure, a few parts, no interspace loss, low noise



Compact structure

Units features compact structure, small installation area, advanced design. Its installation area is 70% of modular chiller with same capacity.

Green

Refrigerant	Molecular formula	ODP (ozone-depletion potential)	GWP (Global Warming Potential)	toxicity	flammability
R22	CHF ₂ Cl	0.05	0.3	innocuous	nonflammable
R134a	C ₂ H ₂ F ₄	0	0.24-0.29	innocuous	nonflammable

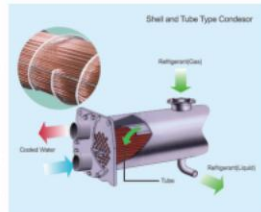
Optimized heat exchange system

Dry Type Evaporator

Simple oil retrieval, high reliability without oil retrieval pump.
Little cooling capacity loss. No wearable parts. Low maintenance cost.
Less refrigerant charging volume, less influenced by the static pressure of refrigerant liquid.
Thermal insulated with latest fire resistant and water proof material.

Horizontal shell and tube type condenser

High heat conducting coefficient. Less water consumption. Less heat conducting resistance.
Lower vertical space requirement. Compact structure and easy operation management.



High quality system component

The key component of Chunlan chiller are supplied by well know corporations including Danfoss, Emerson and Sporlan. The performance are high reliable and the control and very accurate.



Convenient Installation and Maintenance

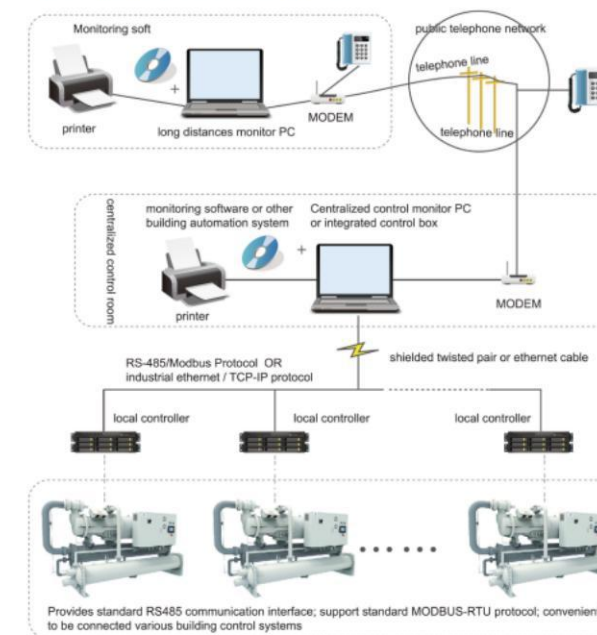
Lubricant oil and refrigerant has been charged in factory production. End user only need to connect the water pipe and electric wiring so as to put into use. This can greatly reduce the time for on spot installation and debugging.

Humanized operation interface

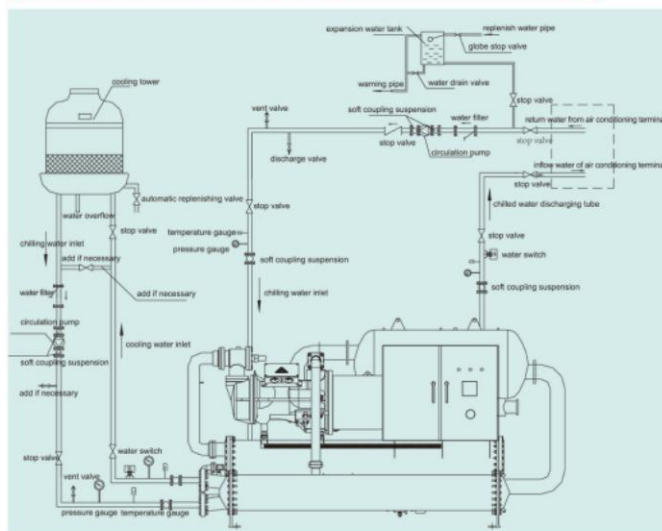


High-resolution LED backlight touch screen, 800*480, 35535 digital true color display
Strong anti-interference performance, industrial standard III
Touch operation, menu with varied contents, easy to understand
Multistage menu
Multistage login permission settings, easy to manage
Real-time display of the operating data. Control the unit precisely in real-time,
timing for start-up and shut-down automatically

Advanced intelligent centralized control system



Water system pipe connection



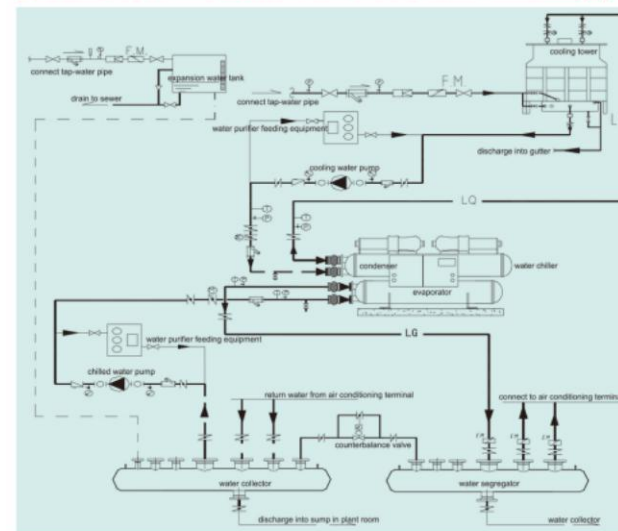
R22 series scroll chiller

Model	CLL560WX2K	CLL580WX2K	CLL5120WX3K
Cooling Capacity	kW 60	80	120
Power Input	kW 13.2	16.3	24.2
Operating Current	A 25.1	31.0	46.0

R134a series scroll chiller

Model	CLL565WX2AK	CLL585WX2AK	CLL5125WX3AK
Cooling Capacity	kW 65	84	123
Power Input	kW 13.9	17.2	24.8
Operating Current	A 26.4	32.7	47.1

Cooling water filling system flow chart of Water chiller



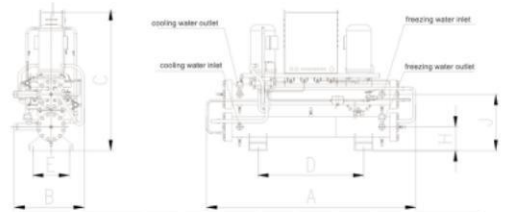
R22 series water source heat pump scroll chiller

Model	CLL565RWX2KD	CLL585RWX2KD	CLL5130RWX3KD
Cooling Capacity	kW 65	85	130
Heating Capacity	kW 71.5	93.5	143
Power Input	kW 12	13.6	20.5
Operating Current	A 22.8	25.8	39.0

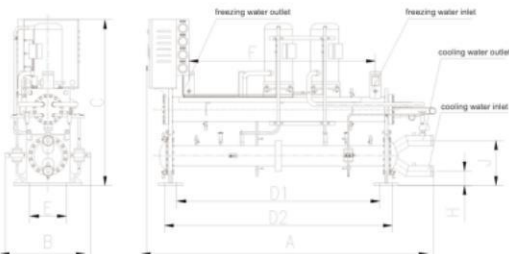
R134a series water source heat pump scroll chiller

Model	CLL565RWX2AKD	CLL585RWX2AKD	CLL5125RWX3AKD
Cooling Capacity	kW 65	83	125
Heating Capacity	kW 71.5	91.3	137.5
Power Input	kW 10.9	16.8	24.4
Operating Current	A 20.7	31.9	46.4

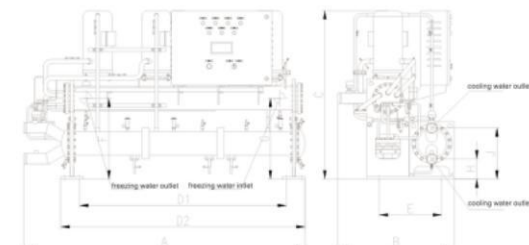
Unit overall dimensions



Model	A	B	C	D	E	F	G	H	I	J	Bolt
CLLS65WX2AK	1988	665	1326	1005	350	223	529.5				M12



Model	A	B	C	D1	D2	E	F	G	H	I	J	Bolt
CLLS85WX2AK	2538	700	1368	1669	1873	300	1532	120	370			M16



Model	A	B	C	D1	D2	E	F	G	H	I	J	Bolt
CLLS125WX3AK	2253	930	1363	1655	1955	300	653	653	163	413		M20

Specifications

Model		CLLS65WX2AK	CLLS85WX2AK	CLLS125WX3AK	
Cooling capacity	kW	65	84	123	
Heating capacity	kW				
Power input	kW	13.9	17.2	24.8	
Rated current	A	26.4	32.7	47.1	
EER		4.68	4.88	4.96	
Capacity adjusting	%	50%- 100%	50%- 100%	33%- 66%- 100%	
Compressor	Type	hermetic scroll			
	Quantity	2	2	3	
	startup mode	Directly Starting	Directly Starting	Directly Starting	
Condenser	Type	closed shell and tube condenser			
	Quantity	2	2	3	
	Pipe diameter	DN	DN65	DN65	
	Water flow	m ³ /h	13.5	17.3	25.3
	Water resistance	KPa	38	40	45
Evaporator	Type	Dry type evaporator	Dry type evaporator	Dry type evaporator	
	Quantity	1	1	1	
	Pipe diameter	DN	DN65	DN65	
	Water flow	m ³ /h	11.1	14.4	21.1
	Water resistance	KPa	30	32	35
Refrigerant	Type	R410a	R410a	R410a	
	Charge	kg	15	18	27
Net weight		kg	530	580	750
Running weight		kg	550	610	780

1. The parameters in the above table is the nominal value in accordance with the rated conditions stipulated by the GB/T18430.1-2007.

Standard cooling condition: Evaporator water outlet temperature 7, Condenser water inlet temperature 30

Standard heating condition: Evaporator water inlet temperature 15, Condenser water outlet temperature 45

2. Energy efficiency rating is determined according to GB19577-2004

3. The particular parameters are subject to the nameplate of unit.

R22 series dry type single screw chiller

Model	CLS300DLIK	CLS430DLIK	CLS500DLIK	CLS550DLIK
Cooling Capacity	300	430	500	550
Power Input	64.5	92	106.5	116
Operating Current	116.1	165.6	191.7	208.8
Model	CLS660DLIK	CLS770DLIK	CLS870DLIK	CLS960DLIK
Cooling Capacity	660	770	870	960
Power Input	137	158	177	193
Operating Current	246.6	284.4	318.6	347.4
Model	CLS860DL2K	CLS1000DL2K	CLS1090DL2K	CLS1320DL2K
Cooling Capacity	860	1000	1090	1320
Power Input	173	198	214	256
Operating Current	311.4	356.4	385.2	460.8
Model	CLS1550DL2K	CLS1750DL2K	CLS1900DL2K	CLS2000DL2K
Cooling Capacity	1550	1750	1900	2000
Power Input	295	330	355	368
Operating Current	531.0	594.0	639.0	662.4

R134a series dry type single screw chiller

Model	CLS300DLIAK	CLS420DLIAK	CLS560DLIAK	CLS620DLIAK
Cooling Capacity	300	420	560	620
Power Input	65	90	118	129
Operating Current	117.0	162.0	212.4	232.2
Model	CLS670DLIAK	CLS760DLIAK	CLS870DLIAK	CLS960DLIAK
Cooling Capacity	670	760	870	960
Power Input	138	155	175	191
Operating Current	248.4	279.0	315.0	343.8
Model	CLS850DL2AK	CLS990DL2AK	CLS1120DL2AK	CLS1340DL2AK
Cooling Capacity	850	990	1120	1340
Power Input	173	198	218	257
Operating Current	311.4	356.4	392.4	462.6
Model	CLS1520DL2AK	CLS1740DL2AK	CLS1910DL2AK	CLS2000DL2AK
Cooling Capacity	1520	1740	1910	2000
Power Input	288	324	352	368
Operating Current	518.4	583.2	633.6	662.4

R22 series fluided single screw chiller

Model	CLS320DL1KM	CLS470DL1KM	CLS540DL1KM	CLS590DL1KM
Cooling Capacity	320	470	540	590
Power Input	66	95.3	106.5	115
Operating Current	118.8	171.5	191.7	207.0
Model	CLS710DL1KM	CLS840DL1KM	CLS950DL1KM	CLS1040DL1KM
Cooling Capacity	710	840	950	1040
Power Input	136	158	176	190
Operating Current	244.8	284.4	318.6	342.0
Model	CLS770DL2KM	CLS940DL2KM	CLS1070DL2KM	CLS1190DL2KM
Cooling Capacity	770	940	1070	1190
Power Input	148	177	196	212
Operating Current	266.4	318.6	352.8	381.6
Model	CLS1540DL2KM	CLS1670DL2KM	CLS1900DL2KM	CLS2000DL2KM
Cooling Capacity	1430	1670	1900	2000
Power Input	251	288	323	336
Operating Current	451.8	518.4	581.4	604.8

R134a series fluided single screw chiller

Model	CLS320DLIAKM	CLS380DLIAKM	CLS460DLIAKM	CLS540DLIAKM
Cooling Capacity	320	380	460	540
Power Input	65.5	77	92.3	105
Operating Current	117.9	138.6	166.1	189.0
Model	CLS610DLIAKM	CLS730DLIAKM	CLS830DLIAKM	CLS950DLIAKM
Cooling Capacity	610	730	830	950
Power Input	117	136	153	173
Operating Current	210.6	244.8	275.4	311.4
Model	CLS760DL2AKM	CLS930DL2AKM	CLS1080DL2AKM	CLS1220DL2AKM
Cooling Capacity	760	930	1080	1220
Power Input	146	175	198	216
Operating Current	262.8	315.0	356.4	388.8
Model	CLS1340DL2AKM	CLS1470DL2AKM	CLS1690DL2AKM	CLS2000DL2AKM
Cooling Capacity	1340	1470	1690	2000
Power Input	234	252	284	333
Operating Current	421.2	453.6	511.2	599.4

R22 series dry type single screw water source heat pump chiller

Model	CLS320RDL1KD	CLS380RDL1KD	CLS460RDL1KD	CLS530RDL1KD
Cooling Capacity	320	380	460	530
Heating Capacity	352	418	506	583
Power Input	58	68	81.5	93
Operating Current	104.4	122.4	146.7	167.4
Model	CLS580RDL1KD	CLS700RDL1KD	CLS820RDL1KD	CLS930RDL1KD
Cooling Capacity	580	700	820	930
Heating Capacity	638	770	902	1023
Power Input	101	120.5	139	155
Operating Current	181.8	216.9	250.2	279.0
Model	CLS920RDL2KD	CLS1060RDL2KD	CLS1160RDL2KD	CLS1400RDL2KD
Cooling Capacity	920	1060	1160	1400
Heating Capacity	1012	1166	1276	1540
Power Input	159	181	196	234
Operating Current	286.2	325.8	352.8	421.2
Model	CLS1640RDL2KD	CLS1850RDL2KD	CLS2050RDL2KD	CLS2300RDL2KD
Cooling Capacity	1640	1850	2050	2300
Heating Capacity	1804	2035	2255	2530
Power Input	271	303	328	363
Operating Current	487.8	545.4	590.4	653.4

R22 series enclosed single screw chiller

Model	CLS350DL1F	CLS430DL1F	CLS500DL1F	CLS770DL1F
Cooling Capacity	350	430	500	770
Power Input	75	90	101	152
Operating Current	135.0	162.0	181.8	273.6
Model	CLS880DL1F	CLS1540DL2F	CLS1650DL2F	CLS1750DL2F
Cooling Capacity	880	1540	1650	1750
Power Input	171	290	306	320
Operating Current	307.8	522.0	550.8	576.0

R134a series dry type single screw water source heat pump chiller

Model	CLS300RDL1AKD	CLS380RDL1AKD	CLS450RDL1AKD	CLS530RDL1AKD
Cooling Capacity	kW 300	380	450	530
Heating Capacity	kW 330	418	495	583
Power Input	kW 54	67	78	91
Operating Current	A 97.2	120.6	140.4	163.8
Model	CLS660RDL1AKD	CLS720RDL1AKD	CLS810RDL1AKD	CLS930RDL1AKD
Cooling Capacity	kW 660	720	810	930
Heating Capacity	kW 726	792	891	1023
Power Input	kW 111.5	120	133	151
Operating Current	A 200.7	216.0	239.4	271.8
Model	CLS900RDL2AKD	CLS1050RDL2AKD	CLS1200RDL2AKD	CLS1440RDL2AKD
Cooling Capacity	kW 900	1050	1200	1440
Heating Capacity	kW 990	1155	1320	1584
Power Input	kW 146	169	191	227
Operating Current	A 262.8	304.2	343.8	408.6
Model	CLS1620RDL2AKD	CLS1860RDL2AKD	CLS2050RDL2AKD	CLS2300RDL2AKD
Cooling Capacity	kW 1620	1860	2050	2300
Heating Capacity	kW 1782	2046	2255	2530
Power Input	kW 288	324	352	368
Operating Current	A 518.4	583.2	633.6	662.4

R22 series fluided single screw water source heat pump chiller

Model	CLS350RDL1KDM	CLS410RDL1KDM	CLS500RDL1KDM	CLS580RDL1KDM
Cooling Capacity	kW 350	410	500	580
Heating Capacity	kW 385	451	550	638
Power Input	kW 57	66	80	91.8
Operating Current	A 102.6	118.8	144.0	165.2
Model	CLS760RDL1KDM	CLS890RDL1KDM	CLS1000RDL1KDM	CLS1100RDL1KDM
Cooling Capacity	kW 760	890	1000	1100
Heating Capacity	kW 836	979	1100	1210
Power Input	kW 119	138	154	167.3
Operating Current	A 214.2	248.4	277.2	301.1
Model	CLS820RDL2KDM	CLS1000RDL2KDM	CLS1160RDL2KDM	CLS1250RDL2KDM
Cooling Capacity	kW 820	1000	1160	1250
Heating Capacity	kW 902	1100	1276	1375
Power Input	kW 128	154	177	189
Operating Current	A 230.4	277.2	318.6	340.2
Model	CLS1520RDL2KDM	CLS1800RDL2KDM	CLS2010RDL2KDM	CLS2300RDL2KDM
Cooling Capacity	kW 1520	1800	2010	2300
Heating Capacity	kW 1672	1980	2211	2530
Power Input	kW 228	268	296	336
Operating Current	A 410.4	482.4	532.8	604.8

R134a series enclosed single screw chiller

Model	CLS350DL1AF	CLS420DL1AF	CLS500DL1AF	CLS760DL1AF
Cooling Capacity	kW 350	420	500	760
Power Input	kW 76	89	100.8	150
Operating Current	A 136.8	160.2	181.4	270.0
Model	CLS880DL1AF	CLS1520DL2AF	CLS1600DL2AF	CLS1750DL2AF
Cooling Capacity	kW 880	1520	1600	1750
Power Input	kW 172	292	303	328
Operating Current	A 309.6	525.6	545.4	590.4

R134a series fluided single screw water source heat pump chiller

Model	CLS320RDL1AKDM	CLS370RDL1AKDM	CLS500RDL1AKDM	CLS580RDL1AKDM
Cooling Capacity	kW 320	370	500	580
Heating Capacity	kW 352	407	550	638
Power Input	kW 51.5	59	79	90.5
Operating Current	A 92.7	106.2	142.2	162.9
Model	CLS650RDL1AKDM	CLS780RDL1AKDM	CLS890RDL1AKDM	CLS1020RDL1AKDM
Cooling Capacity	kW 650	780	890	1020
Heating Capacity	kW 715	858	979	1122
Power Input	kW 100.4	119	135	153.5
Operating Current	A 180.7	214.2	243.0	276.3
Model	CLS820RDL2AKDM	CLS1160RDL2AKDM	CLS1300RDL2AKDM	CLS1420RDL2AKDM
Cooling Capacity	kW 820	1160	1300	1420
Heating Capacity	kW 902	1276	1430	1562
Power Input	kW 127	178	197	213
Operating Current	A 228.6	320.4	354.6	383.4
Model	CLS1560RDL2AKDM	CLS1780RDL2AKDM	CLS2040RDL2AKDM	CLS2300RDL2AKDM
Cooling Capacity	kW 1560	1780	2040	2300
Heating Capacity	kW 1716	1958	2244	2530
Power Input	kW 232	263	299	334
Operating Current	A 417.6	473.4	538.2	601.2

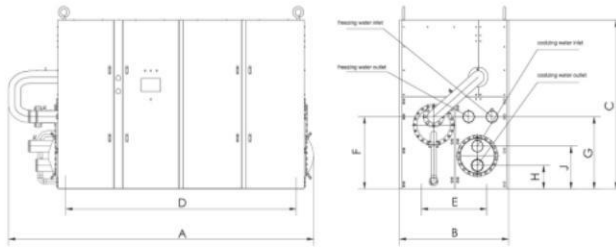
R22 series enclosed single screw water source heat pump chiller

Model	CLS370RDL1FD	CLS460RDL1FD	CLS580RDL1FD	CLS820RDL1FD
Cooling Capacity	kW 370	460	580	820
Heating Capacity	kW 407	506	638	902
Power Input	kW 64	78	96	134
Operating Current	A 115.2	140.4	172.8	241.2
Model	CLS930RDL1FD	CLS1530RDL2FD	CLS1640RDL2FD	CLS1780RDL2FD
Cooling Capacity	kW 930	1530	1640	1780
Heating Capacity	kW 1023	1683	1804	1958
Power Input	kW 149.5	242	256	271
Operating Current	A 269.1	435.6	460.8	487.8

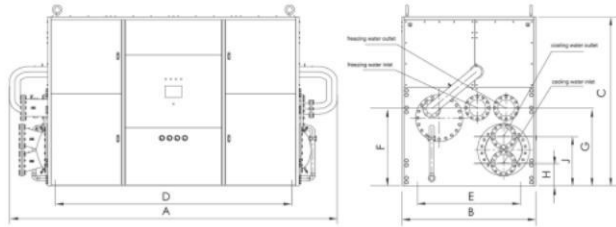
R134a series enclosed single screw water source heat pump chiller

Model	CLS370RDL1AFD	CLS450RDL1AFD	CLS530RDL1AFD	CLS810RDL1AFD
Cooling Capacity	kW 370	450	530	810
Heating Capacity	kW 407	495	583	891
Power Input	kW 64.2	76	88	132
Operating Current	A 115.6	136.8	158.4	237.6
Model	CLS930RDL1AFD	CLS1550RDL2AFD	CLS1640RDL2AFD	CLS1780RDL2AFD
Cooling Capacity	kW 930	1550	1640	1780
Heating Capacity	kW 1023	1705	1804	1958
Power Input	kW 149	243	253	270
Operating Current	A 268.2	437.4	455.4	486.0

Unit overall dimensions



Model CLLS	A	B	C	D	E	F	G	H	J	cooling water/ heating water connector
400RDL1AF	3370	1300	2035	2680	825	850	850	297	497	DN125
800RDL1AF	4184	1500	2290	3160	900	980	980	320	580	DN150



Model CLLS	A	B	C	D	E	F	G	H	J	cooling water/ heating water connector
1600RDL2AF	5134	2095	2650	3700	1465	1222	1222	355	775	DN250

Specifications

Model		CLLS400RDL1AF	CLLS800RDL1AF	CLLS1600RDL2AF
Cooling capacity	kW	400	800	1600
Heating capacity	kW	425	950	1900
Power input	kW	88	165	320
Rated current	A	148	278	530
EER		4.54	4.85	5.0
Capacity adjusting	%	25%-100% stepless capacity adjusting		
Compressor	Type	semi-hermetic single screw		
	Quantity	1	1	2
	startup mode	Y-Δ	Y-Δ	Y-Δ
Condenser	Type	closed shell and tube condenser		
	Quantity	1	1	1
	Pipe diameter	DN125	DN150	DN250
	Water flow	m ³ /h	164	328
Evaporator	Water resistance	KPa	58	78
	Type	Dry type evaporator	Dry type evaporator	Dry type evaporator
	Quantity	1	1	1
	Pipe diameter	DN	DN125	DN150
Refrigerant	Water flow	m ³ /h	68.3	138
	Water resistance	KPa	73	85
	Type	R134a	R134a	R134a
Net weight	kg	3100	6000	10800
	Running weight	kg	3250	6240

1. The parameters in the above table is the nominal value in accordance with the rated conditions stipulated by the GB/T18430.1-2007.

Standard cooling condition: Evaporator water outlet temperature 7, Condenser water inlet temperature 30
Standard heating condition: Evaporator water inlet temperature 15, Condenser water outlet temperature 45

2. Energy efficiency rating is determined according to GB19577-2004

3. The particular parameters are subject to the nameplate of unit.

R22 series twin screw water-cooled chiller

Model	CLS150SLIK	CLS180SLIK	CLS210SLIK	CLS250SLIK
Cooling Capacity	150	180	210	250
Power Input	33	39.4	45.8	54.1
Operating Current	58.1	69.3	80.6	95.2
Model	CLS300SLIK	CLS350SLIK	CLS400SLIK	CLS510SLIK
Cooling Capacity	300	350	400	510
Power Input	64.8	75.5	86	109
Operating Current	114.0	132.9	151.4	196.2
Model	CLS560SLIK	CLS610SLIK	CLS660SLIK	CLS710SLIK
Cooling Capacity	560	610	660	710
Power Input	119	128.5	138	148
Operating Current	214.2	231.3	248.4	266.4
Model	CLS770SLIK	CLS880SLIK	CLS810SL2K	CLS880SL2K
Cooling Capacity	770	880	810	880
Power Input	159	178	164	176
Operating Current	286.2	320.4	298	320
Model	CLS980SL2K	CLS1080SL2K	CLS1150SL2K	CLS1260SL2K
Cooling Capacity	980	1080	1150	1260
Power Input	195	213.5	226	246
Operating Current	355	389	411	448
Model	CLS1350SL2K	CLS1420SL2K	CLS1540SL2K	CLS1620SL2K
Cooling Capacity	1350	1420	1540	1620
Power Input	262	273.8	295	308
Operating Current	477	493	531	554
Model	CLS1700SL2K	CLS1760SL2K	CLS1840SL2K	CLS2000SL2K
Cooling Capacity	1700	1760	1840	2000
Power Input	322	332	345	367
Operating Current	580	598	621	661

R134a series twin screw water-cooled chiller

Model	CLS150SLIAK	CLS180SLIAK	CLS210SLIAK	CLS280SLIAK
Cooling Capacity	150	180	210	280
Power Input	33	39.4	46	60.8
Operating Current	58.2	70.1	81.9	106.2
Model	CLS320SLIAK	CLS370SLIAK	CLS460SLIAK	CLS520SLIAK
Cooling Capacity	320	370	460	520
Power Input	69.3	80	99	111
Operating Current	123.4	142.4	176.2	199.8
Model	CLS610SLIAK	CLS660SLIAK	CLS700SLIAK	CLS750SLIAK
Cooling Capacity	610	660	700	750
Power Input	126	138	145	155
Operating Current	226.8	248.4	261	279
Model	CLS810SLIAK	CLS880SLIAK	CLS800SL2AK	CLS880SL2AK
Cooling Capacity	810	880	800	850
Power Input	166	179	164	174
Operating Current	298.8	322.2	298.5	316.7
Model	CLS900SL2AK	CLS980SL2AK	CLS1100SL2AK	CLS1120SL2AK
Cooling Capacity	900	980	1100	1120
Power Input	183	198	218	221
Operating Current	333.1	356.4	392.4	397.8
Model	CLS1200SL2AK	CLS1340SL2AK	CLS1400SL2AK	CLS1510SL2AK
Cooling Capacity	1200	1340	1400	1510
Power Input	235	260	270	288
Operating Current	427.7	473.2	491.4	524.2
Model	CLS1630SL2AK	CLS1760SL2AK	CLS1870SL2AK	CLS2000SL2AK
Cooling Capacity	1630	1760	1870	2000
Power Input	308	325	342	362
Operating Current	569.8	601.3	632.7	669.7

R22 series fluided twin screw chiller

Model	CLS210SLIKM	CLS300SLIKM	CLS370SLIKM	CLS440SLIKM
Cooling Capacity	210	300	370	440
Power Input	44	62	75	88.5
Operating Current	79.2	111.6	135.0	159.3
Model	CLS540SLIKM	CLS610SLIKM	CLS710SLIKM	CLS780SLIKM
Cooling Capacity	540	610	710	780
Power Input	105.6	118	136	148
Operating Current	190.1	212.4	244.8	266.4
Model	CLS870SLIKM	CLS960SLIKM	CLS1050SLIKM	CLS1130SLIKM
Cooling Capacity	870	960	1050	1130
Power Input	164	178	193	206
Operating Current	295.2	320.4	347.4	370.8
Model	CLS1260SL2KM	CLS880SL2KM	CLS940SL2KM	CLS1090SL2KM
Cooling Capacity	1260	880	940	1090
Power Input	143	164	173	199
Operating Current	257.4	295.2	311.4	358.2
Model	CLS1160SL2KM	CLS1280SL2KM	CLS1400SL2KM	CLS1520SL2KM
Cooling Capacity	1160	1280	1400	1520
Power Input	210	226	245	263.5
Operating Current	378.0	406.8	441.0	474.3
Model	CLS1660SL2KM	CLS1780SL2KM	CLS1870SL2KM	CLS2000SL2KM
Cooling Capacity	1660	1780	1870	2000
Power Input	286	306	319	339
Operating Current	514.8	550.8	574.2	610.2

R134a series fluided twin screw chiller

Model	CLS210SLIAKM	CLS280SLIAKM	CLS360SLIAKM	CLS480SLIAKM
Cooling Capacity	210	280	360	480
Power Input	43.8	58	73.4	96.2
Operating Current	78.8	104.4	132.1	173.2
Model	CLS540SLIAKM	CLS630SLIAKM	CLS680SLIAKM	CLS760SLIAKM
Cooling Capacity	540	630	680	760
Power Input	105.6	121	129	142
Operating Current	190.1	217.8	232.2	255.6
Model	CLS850SLIAKM	CLS980SLIAKM	CLS1040SLIAKM	CLS1150SLIAKM
Cooling Capacity	850	980	1060	1150
Power Input	158	180	193.2	205.8
Operating Current	284.4	324.0	347.8	370.4
Model	CLS740SL2AKM	CLS830SL2AKM	CLS950SL2AKM	CLS1030SL2AKM
Cooling Capacity	740	830	950	1030
Power Input	143	160	181	193
Operating Current	257.4	288	325.8	347.4
Model	CLS1120SL2AKM	CLS1200SL2AKM	CLS1300SL2AKM	CLS1390SL2AKM
Cooling Capacity	1120	1200	1300	1390
Power Input	208	220	237	251
Operating Current	374.4	396	426.6	451.8
Model	CLS1520SL2AKM	CLS1650SL2AKM	CLS1860SL2AKM	CLS2000SL2AKM
Cooling Capacity	1520	1650	1860	2000
Power Input	273	294	329	352
Operating Current	491.4	529.2	592.2	633.6

R22 series twin screw water source heat pump chiller

Model	CLS180RSLIKD	CLS210RSLIKD	CLS260RSLIKD	CLS330RSLIKD
Cooling Capacity	180	210	260	330
Heating Capacity	198	231	286	363
Power Input	34	39.4	48.6	61.5
Operating Current	59.8	69.3	85.5	108.2
Model	CLS430RSLIKD	CLS550RSLIKD	CLS660RSLIKD	CLS770RSLIKD
Cooling Capacity	430	550	660	770
Heating Capacity	473	590	705	827
Power Input	79.2	91	99	107
Operating Current	139.4	160.2	176.2	192.6
Model	CLS770RSLIKD	CLS870RSLIKD	CLS990RSLIKD	CLS1100RSLIKD
Cooling Capacity	770	870	990	1100
Heating Capacity	836	957	1089	1199
Power Input	139	151	161	179
Operating Current	225.36	239.4	253.8	270
Model	CLS990RSLIKD	CLS1100RSLIKD	CLS1260RSLIKD	CLS1440RSLIKD
Cooling Capacity	990	1100	1260	1440
Heating Capacity	1045	1166	1330	1500
Power Input	162	175	186	200
Operating Current	291.6	302	315	335
Model	CLS1100RSLIKD	CLS1260RSLIKD	CLS1440RSLIKD	CLS1620RSLIKD
Cooling Capacity	1100	1260	1440	1620
Heating Capacity	1243	1386	1554	1734
Power Input	195	211	229.5	255
Operating Current	335	364	418	459
Model	CLS1620RSLIKD	CLS1800RSLIKD	CLS2000RSLIKD	CLS2200RSLIKD
Cooling Capacity	1620	1800	2000	2200
Heating Capacity	1755	1950	2160	2380
Power Input	328	337	348	373
Operating Current	590	607	626	671

R22 series fluided twin screw water source heat pump chiller

Model	CLS210RSLIKDM	CLS310RSLIKDM	CLS380RSLIKDM	CLS450RSLIKDM
Cooling Capacity	210	310	380	450
Heating Capacity	231	341	418	495
Power Input	34.2	50	61	71.8
Operating Current	61.6	90.0	109.8	129.2
Model	CLS550RSLIKDM	CLS660RSLIKDM	CLS770RSLIKDM	CLS880RSLIKDM
Cooling Capacity	550	660	770	880
Heating Capacity	590	705	827	949
Power Input	79	92.5	107.6	119.5
Operating Current	142.2	166.5	193.7	215.1
Model	CLS990RSLIKDM	CLS1100RSLIKDM	CLS1260RSLIKDM	CLS1440RSLIKDM
Cooling Capacity	990	1100	1260	1440
Heating Capacity	1089	1199	1330	1500
Power Input	139	151	161	179
Operating Current	250.2	271.8	289.8	322.2
Model	CLS1620RSLIKDM	CLS1800RSLIKDM	CLS2000RSLIKDM	CLS2200RSLIKDM
Cooling Capacity	1620	1800	2000	2200
Heating Capacity	1755	1950	2160	2380
Power Input	328	337	348	373
Operating Current	590	607	626	671

R134a series twin screw water source heat pump chiller

Model	CLS180RSLIAKD	CLS210RSLIAKD	CLS260RSLIAKD	CLS330RSLIAKD
Cooling Capacity	180	210	260	330
Heating Capacity	198	231	286	363
Power Input	33	39.8	48	60
Operating Current	58.1	70.0	84.5	105.6
Model	CLS430RSLIAKD	CLS550RSLIAKD	CLS660RSLIAKD	CLS770RSLIAKD
Cooling Capacity	430	550	660	770
Heating Capacity	473	590	705	827
Power Input	64.5	74	90.2	98
Operating Current	113.5	130.2	158.8	176.4
Model	CLS770RSLIAKD	CLS870RSLIAKD	CLS990RSLIAKD	CLS1100RSLIAKD
Cooling Capacity	770	870	990	1100
Heating Capacity	836	957	1089	1199
Power Input	139	151	161	179
Operating Current	225.36	239.4	253.8	270
Model	CLS1100RSLIAKD	CLS1260RSLIAKD	CLS1440RSLIAKD	CLS1620RSLIAKD
Cooling Capacity	1100	1260	1440	1620
Heating Capacity	1243	1386	1554	1734
Power Input	195	211	229.5	255
Operating Current	335	364	418	459
Model	CLS1620RSLIAKD	CLS1800RSLIAKD	CLS2000RSLIAKD	CLS2200RSLIAKD
Cooling Capacity	1620	1800	2000	2200
Heating Capacity	1755	1950	2160	2380
Power Input	328	337	348	373
Operating Current	590	607	626	671

R134a series fluided twin screw water source heat pump chiller

Model	CLS210RSLIAKDM	CLS310RSLIAKDM	CLS380RSLIAKDM	CLS450RSLIAKDM
Cooling Capacity	210	310	380	450
Heating Capacity	231	341	418	495
Power Input	34	50	61	71.8
Operating Current	61.2	90.0	109.8	129.2
Model	CLS550RSLIAKDM	CLS660RSLIAKDM	CLS770RSLIAKDM	CLS880RSLIAKDM
Cooling Capacity	550	660	770	880
Heating Capacity	590	705	827	949
Power Input	79	92.5	107.6	119.5
Operating Current	142.2	166.5	193.7	215.1
Model	CLS990RSLIAKDM	CLS1100RSLIAKDM	CLS1260RSLIAKDM	CLS1440RSLIAKDM
Cooling Capacity	990	1100	1260	1440
Heating Capacity	1089	1199	1330	1500
Power Input	139	151	161	179
Operating Current	250.2	271.8	289.8	322.2
Model	CLS1620RSLIAKDM	CLS1800RSLIAKDM	CLS2000RSLIAKDM	CLS2200RSLIAKDM
Cooling Capacity	1620	1800	2000	2200
Heating Capacity	1755	1950	2160	2380
Power Input	328	337	348	373
Operating Current	590	607	626	671

R22 series falling film screw chiller

Model	CLS210SL1KJ	CLS300SL1KJ	CLS370SL1KJ	CLS440SL1KJ
Cooling Capacity	kW	210	300	370
Power Input	kW	44	62	75
Operating Current	A	79.2	111.6	135.0
Model	CLS540SL1KJ	CLS610SL1KJ	CLS710SL1KJ	CLS780SL1KJ
Cooling Capacity	kW	540	610	710
Power Input	kW	105.6	118	136
Operating Current	A	190.1	212.4	244.8
Model	CLS870SL1KJ	CLS960SL1KJ	CLS1050SL1KJ	CLS1130SL1KJ
Cooling Capacity	kW	870	960	1050
Power Input	kW	164	178	193
Operating Current	A	295.2	320.4	347.4
Model	CLS1760SL2KJ	CLS1880SL2KJ	CLS1940SL2KJ	CLS1090SL2KJ
Cooling Capacity	kW	760	880	940
Power Input	kW	143	164	173
Operating Current	A	257.4	295.2	311.4

Model	CLS1160SL2KJ	CLS1280SL2KJ	CLS1400SL2KJ	CLS1530SL2KJ
Cooling Capacity	kW	1160	1280	1400
Power Input	kW	210	226	245
Operating Current	A	378.0	406.8	441.0
Model	CLS1660SL2KJ	CLS1780SL2KJ	CLS1870SL2KJ	CLS2000SL2KJ
Cooling Capacity	kW	1660	1780	1870
Power Input	kW	286	306	319
Operating Current	A	514.8	550.8	574.2

R134A series falling film screw chiller

Model	CLS210SL1AKJ	CLS280SL1AKJ	CLS360SL1AKJ	CLS480SL1AKJ
Cooling Capacity	kW	210	280	360
Power Input	kW	43.8	58	73.4
Operating Current	A	78.8	104.4	132.1
Model	CLS540SL1AKJ	CLS630SL1AKJ	CLS680SL1AKJ	CLS760SL1AKJ
Cooling Capacity	kW	540	630	680
Power Input	kW	105.6	121	129
Operating Current	A	190.1	217.8	232.2
Model	CLS850SL1AKJ	CLS980SL1AKJ	CLS1060SL1AKJ	CLS1150SL1AKJ
Cooling Capacity	kW	850	980	1060
Power Input	kW	158	180	193.2
Operating Current	A	284.4	324.0	347.8
Model	CLS1740SL2AKJ	CLS1830SL2AKJ	CLS1950SL2AKJ	CLS1030SL2AKJ
Cooling Capacity	kW	740	830	950
Power Input	kW	143	160	193
Operating Current	A	257.4	288	325.8
Model	CLS1120SL2AKJ	CLS1200SL2AKJ	CLS1300SL2AKJ	CLS1390SL2AKJ
Cooling Capacity	kW	1120	1200	1300
Power Input	kW	208	220	237
Operating Current	A	374.4	396	426.6
Model	CLS1520SL2AKJ	CLS1650SL2AKJ	CLS1860SL2AKJ	CLS2000SL2AKJ
Cooling Capacity	kW	1520	1650	1860
Power Input	kW	273	294	329
Operating Current	A	491.4	529.2	592.2

R22 series falling film water source heat pump chiller

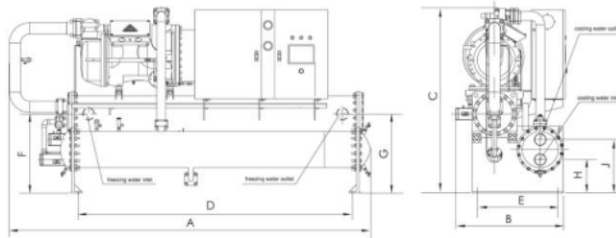
Model	CLS210RSL1KDJ	CLS310RSL1KDJ	CLS380RSL1KDJ	CLS450RSL1KDJ
Cooling Capacity	kW	210	310	380
Heating Capacity	kW	231	341	418
Power Input	kW	34.2	50	61
Operating Current	A	61.6	90.0	109.8
Model	CLS5500RSL1KDJ	CLS5900RSL1KDJ	CLS6900RSL1KDJ	CLS7700RSL1KDJ
Cooling Capacity	kW	550	590	690
Heating Capacity	kW	550	590	690
Power Input	kW	79	92.5	107.6
Operating Current	A	142.2	166.5	193.7
Model	CLS9900RSL1KDJ	CLS9900RSL1KDJ	CLS10600RSL1KDJ	CLS11900RSL1KDJ
Cooling Capacity	kW	990	990	1060
Heating Capacity	kW	990	1089	1166
Power Input	kW	139	151	161
Operating Current	A	250.2	271.8	289.8

Model	CLS760RSL2KDJ	CLS840RSL2KDJ	CLS910RSL2KDJ	CLS1000RSL2KDJ
Cooling Capacity	kW	760	840	910
Heating Capacity	kW	836	924	1001
Power Input	kW	118	130	140
Operating Current	A	212.4	234.0	252.0
Model	CLS1200RSL2KDJ	CLS1260RSL2KDJ	CLS1370RSL2KDJ	CLS1480RSL2KDJ
Cooling Capacity	kW	1200	1260	1370
Heating Capacity	kW	1320	1386	1507
Power Input	kW	182	190	206
Operating Current	A	327.6	342.0	370.8
Model	CLS1550RSL2KDJ	CLS1670RSL2KDJ	CLS1800RSL2KDJ	CLS2000RSL2KDJ
Cooling Capacity	kW	1550	1670	1800
Heating Capacity	kW	1705	1837	1980
Power Input	kW	231	247.5	264
Operating Current	A	415.8	445.5	475.2

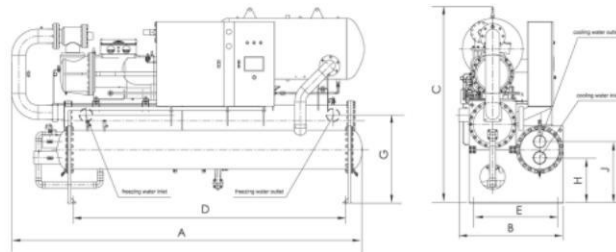
R134A series falling film water source heat pump chiller

Model	CLS210RSL1AKDJ	CLS280RSL1AKDJ	CLS380RSL1AKDJ	CLS450RSL1AKDJ
Cooling Capacity	kW	210	280	380
Heating Capacity	kW	231	308	418
Power Input	kW	34	45	60.5
Operating Current	A	61.2	81.0	108.9
Model	CLS550RSL1AKDJ	CLS600RSL1AKDJ	CLS660RSL1AKDJ	CLS700RSL1AKDJ
Cooling Capacity	kW	520	600	660
Heating Capacity	kW	572	660	726
Power Input	kW	81.5	93.4	102.4
Operating Current	A	146.7	168.1	184.3
Model	CLS770RSL1AKDJ	CLS960RSL1AKDJ	CLS1120RSL1AKDJ	CLS1280RSL1AKDJ
Cooling Capacity	kW	770	960	1120
Heating Capacity	kW	847	1056	1232
Power Input	kW	118	146	169
Operating Current	A	212.4	262.8	304.2
Model	CLS1760RSL2AKDJ	CLS1830RSL2AKDJ	CLS1950RSL2AKDJ	CLS1030RSL2AKDJ
Cooling Capacity	kW	760	830	910
Heating Capacity	kW	836	913	1001
Power Input	kW	118	128	139
Operating Current	A	212.4	230.4	250.2
Model	CLS1110RSL2AKDJ	CLS1200RSL2AKDJ	CLS1320RSL2AKDJ	CLS1380RSL2AKDJ
Cooling Capacity	kW	1110	1200	1320
Heating Capacity	kW	1221	1320	1452
Power Input	kW	168	181	198
Operating Current	A	302.4	325.8	356.4
Model	CLS1540RSL2AKDJ	CLS1710RSL2AKDJ	CLS1880RSL2AKDJ	CLS2000RSL2AKDJ
Cooling Capacity	kW	1540	1710	1880
Heating Capacity	kW	1694	1881	2058
Power Input	kW	228	251	275
Operating Current	A	410.4	451.8	495

Unit overall dimensions



Model CLLS	A	B	C	D	E	F	G	H	J	cooling water/ freezing water connector
210SL1AK	3257	966	1645	2470	725	710	710	300	480	DN100
400SL1AK	3754	1060	1905	2680	825	725	725	262	462	DN125



Model CLLS	A	B	C	D	E	F	G	H	J	cooling water/ freezing water connector
790SL1AK	4234	1440	2210	3240	1240	942	942	402	662	DN150

Specifications

Model		CLLS210RSL1AK	CLLS400RSL1AK	CLLS790RSL1AK	
Cooling capacity	kW	210	400	790	
Heating capacity	kW	226	428	930	
Power input	kW	49.1	88	165	
Rated current	A	94	148	278	
EER		4.28	4.54	4.79	
Capacity adjusting	%	25%, 50%, 75%, 100%			
Compressor	Type	semi-hermetic twin screw			
	Quantity	1	1	1	
	startup mode	Y-△	Y-△	Y-△	
Condenser	Type	closed shell and tube condenser			
	Quantity	1	1	1	
	Pipe diameter	DN	DN100	DN125	DN150
	Water flow	m³/h	44.5	83.6	164
	Water resistance	KPa	53	58	82
Evaporator	Type	Dry type evaporator		Dry type evaporator	
	Quantity	1	1	1	
	Pipe diameter	DN	DN100	DN125	DN150
	Water flow	m³/h	36	68.3	136
	Water resistance	KPa	45	73	80
Refrigerant	Type	R134a		R134a	
	Charge	kg	50	95	200
	Net weight	kg	1450	2700	4800
Running weight	kg	1600	2900	5050	

1. The parameters in the above table is the nominal value in accordance with the rated conditions stipulated by the GB/T18430.1-2007.

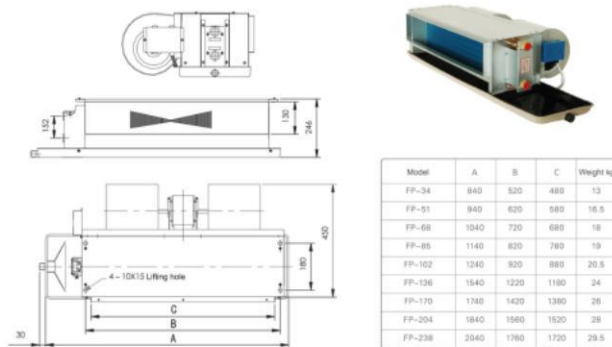
Standard cooling condition: Evaporator water outlet temperature 7, Condenser water inlet temperature 30

Standard heating condition: Evaporator water inlet temperature 15, Condenser water outlet temperature 45

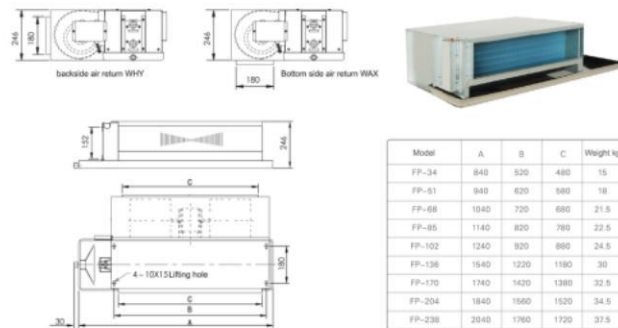
2. Energy efficiency rating is determined according to GB19577-2004

3. The particular parameters are subject to the nameplate of unit.

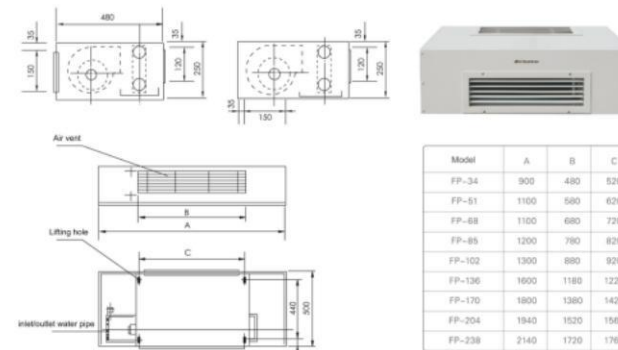
Horizontal concealed FP-WA



Horizontal concealed(with air return box) FP-WAX(H)



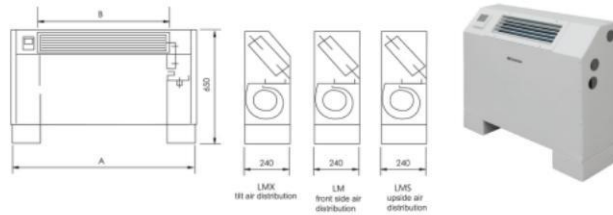
Horizontal open-mounted FP-WM



Vertical concealed FP-LA



Vertical open mounted



	FP-34	FP-51	FP-68	FP-85	FP-102	FP-136	FP-170	FP-204	FP-238
A	800	950	1050	1100	1200	1500	1700	1850	2050
B	480	580	680	780	880	1180	1380	1520	1720
Weight kg	18.5	22.5	24	26	30	45	50	55	55

Optional accessory

Mechanical controller



Capacitor type touch screen electronic controller



LCD electronic controller



Mechanical controller

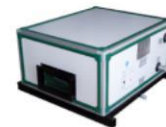
Air vent, Service Point



Performance

Model	Imperial system model	FC200	FC300	FC400	FC500	FC600	FC800	FC1000	FC1200	FC1400
	Metric system model	FP-34	FP-51	FP-68	FP-85	FP-102	FP-136	FP-170	FP-204	FP-238
Air flow m ³ /h	H	340	510	680	850	1020	1360	1700	2040	2380
	M	266	393	510	638	766	1020	1276	1530	1786
	L	170	255	340	425	510	680	850	1020	1190
Cooling Capacity W	H	1800	2700	3600	4500	5400	7200	9000	10800	12600
	M	1620	2440	3290	4120	4950	6560	8190	9730	11290
	L	1310	2010	2680	3320	3960	5280	6610	7960	9230
Heating Capacity W	H	2100	3150	4200	5250	6300	8400	10500	12600	14700
	M	2250	3320	4330	5340	6350	8500	10600	12700	14800
	L	1620	2470	3130	4170	4790	6500	8180	9710	11290
Noise dB (A)	low static pressure 12Pa	<35	<36	<37	<41	<43	<44	<46	<47	<48
	high static pressure 35Pa	<37	<38	<41	<44	<45	<46	<48	<49	<50
	high static pressure 55Pa	<40	<41	<44	<45	<46	<48	<49	<50	<52
Cool water return water temperature		7°C ~ 12°C								
Hot water supply water temperature		40°C ~ 60°C								
Power Supply		AC220V/50Hz								
Heat exchanger	Type	seamless copper tube, aluminum fin								
	Pressure	1.0MPa								
	3 row water supply quantity	324	482	635	814	936	1276	1600	1916	2176
water resistance		25	25	30	30	30	40	40	40	40
low static pressure unit 12Pa		W	37	52	62	76	96	124	152	189
high static pressure unit 35Pa		W	44	59	72	87	106	134	162	199
high static pressure unit 55Pa		W	49	66	84	100	126	154	182	220
fan coil unit quantity		1	2	2	2	2	3	4	4	4
Pipe size	inlet water pipe	3/4" inner groove								
	outlet water pipe	3/4" external groove								

Air Handling Unit



Air Valve

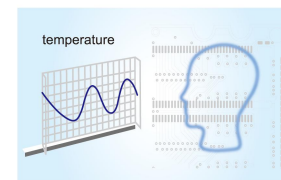




Enclosure Air Conditioners

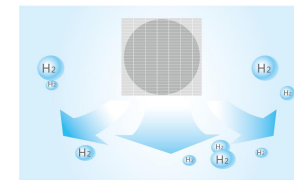
Intelligent Temperature Control

Automatic control the temperature inside the cabinet and the station. The control system will detect the temperature of the return air through inner circulation temperature sensor, to compare and diagnose with the settings, to control the running.



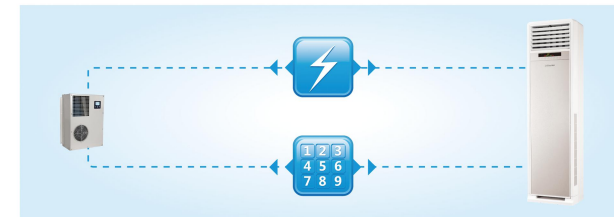
Automatic discharge the hydrogen

Automatic discharge hydrogen with environmental requirements of device cabinet. When setting the timer of automatic discharging hydrogen, the unit will open the discharging hydrogen fan automatic and timely. Besides, it also can be manual operation, through man-machine interaction interface operation, to discharge the hydrogen.



Linkage control

linked with the external air conditioner systems, and coordinated operation with them. It has two modes, one is power control mode, another is simulation button control mode.



Intelligent Self-checking Function

Automatic judgment abnormal condition
Convenient timely and accurate maintenance
Exempt from worries for the future
The function to test the fan can regulate fan speed and test fan operation according to the set temperature.
If there are several groups of fans, anyone of the fan has fault, it will alert.

Smoke-sense alarming

When fireworks situation happens, the smoke-sense alarming signals will start alarm system to guarantee the safety of the machine. Also the unit has reset function to ensure give no false alarm.



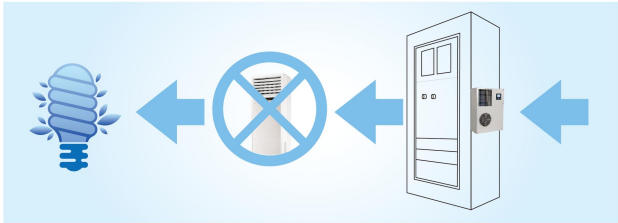
Environmental protection refrigerants

Use freon-free environmental-protection refrigerants instead of traditional refrigerants
Green, Low carbon, More environmental protection.



Miniaturization designing, energy saving.

Miniaturization and exquisite designing, easy to install. Specifcily to control the devices internal temperature, energy saving and environmental protection



Remote control

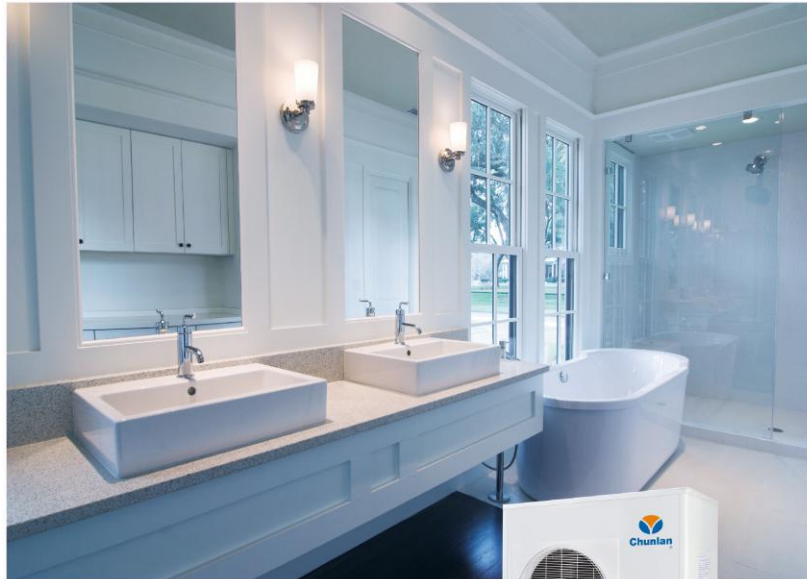
The air conditioner can communicate with computer through RS485 connecting port. The user can check the running status of the air conditioner from the computer, and change parameters of the air conditioner.



Model	DKC03/B	DKC03W	DKC06/B	DKC06W	DKC10W	DKC20/F
Refrigerant	R134a	R134a	R134a	R134a	R134a	R22
Cooling capacity	W	350	350	650	650	1000
Power supply		1,220.50	1,220.50	1,220.50	1,220.50	1,220.50
Rated cooling power input	W	215	215	310	310	500
Rated operating current	A	1	1	1.4	1.4	2.3
Net weight	kg	15	15	24	24	42
Packing weight	kg	17	17	26	26	45
Noise	db(A)	55	55	55	55	55
Net Dimension (DxWxH)	mm	398*200*493	398*200*493	455*188*648	455*188*648	474*202*1150
Packing Dimension (DxWxH)	mm	477*321*550	477*321*550	527*321*705	527*321*705	510*267*1240
Loading Quantity (set)		336/700/700	336/700/700	230/465/465	230/465/465	88/176/352

Remark: Test condition: Inside dry-bulb temperature 24℃, wet-bulb temperature 17℃, outside dry-bulb temperature 35℃.

- The data listed in the form only for reference, and the specific parameter shall refer to product nameplates.
- The applicable area of air conditioner is related to room orientation, insulation level, height of the building, the size and amount of the doors and windows, so that the applicable area is just for reference.
- Chuanan reserves the right to change the product design, specifications, and parameters. There is no specific notice if there appears any adjustment, please refer to product specifications and product nameplates.



Air-Source Water Heater



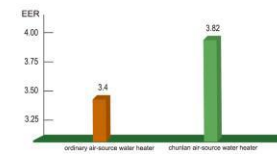
Quickly hot water outlet

The change from 2 hours to 1 minute, Chunlan thermal type air-source water heater adopts the high efficient and energy saving pipe heat exchanger for disposable heating to satisfy the users' requirements. It can supply water rapidly (1-3 minutes can supply hot water), it changes the traditional storage water heater (with water tank) which needs to heat water before 2 hours, and realizes the great change from 2 hours to 1 minute, thus making supply water become more convenient and more relaxed!



High efficient, energy saving

Chunlan air-source water heater uses small amount of power for driving force, making hot water through absorbing heat from the air. The EER can reach up to 3.8, comparing to the ordinary air-source water heater.



High-efficient heat exchanger

Equipped with unique patented technological long spiral casing heat exchanger, improving the heat transfer efficiency, and compared to ordinary casing heat exchanger, the heat exchange area is larger and the heat exchange efficiency is better.



Instant heating, no water tank

Chunlan instant heating type air-source water heater adopts the high efficient and energy saving pipe heat exchanger for disposable heating to satisfy the users' requirements. It has no water tank, easy to install and can save space, it provides a comfortable life with hot water.



Continuous Water Flow

Chunlan promptly heating type air-source water heater has super water flow, within 24 hours of continuous uninterrupted hot water yield up to 6000 liters. You can enjoy bathing as you wishes.



Model		KD116/Y(250)	KF32/J(70)	KF46/J(100)
Refrigerant		R22	R22	R22
Heating Capacity	w	11800	3200	4600
Water supply	L/h	260-670	70	100
Power Supply	PH, V, Hz	1, 220, 50	1, 220, 50	1, 220, 50
Rated Heating Power Input	w	2950	910	1310
Rated Heating Operating Input	A	13	4.1	6.0
Noise Level	dB(A)	20-56	49	52
Net Dimensions WxDxH	mm	1033x337x745	650x250x506	760x259x537
Net Weight (kg)	kg	82	25	31
Packing Dimensions WxDxH	mm	1125x420x875	775x345x545	885x346x592
Gross Weight	kg	90	33	39
Water Tank Optional		no necessary	yes	yes

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Dehumidifier

Strong dehumidifying capability

The high efficiency compressor and high quality heat exchanger ensure the excellent dehumidifying performance to keep dry and comfortable. With accelerated dehumidifying circulation and wide angle blow function, even if the airflow direction changes, it can still enhance the dehumidifying efficiency.



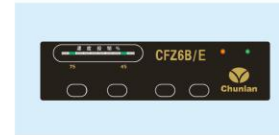
Intelligent humidity regulation

When the humidity is out of limit, the sensitive humidity sensor will be aware of it and start dehumidifying. When the humidity reaches the setting state, the machine will stop working automatically.



Manual/Auto operating

Choice in two modes between Manual and automatic to meet the dehumidifying need in different situation and seasons.



High efficient operation

Computer controls the dehumidifying operation and makes the whole process of dehumidifying in the state of high-efficient operation and environment friendly.

Low temperature dehumidifying

Ultra-low temperature dehumidifying starts while microcomputer auto defrosts, which produces a perfect solution that when the temperature is below 18 °C the dehumidifier cannot work due to the frost in exchanger surface, ensures dehumidifying above 5°C and the continuing work under low temperature, meeting the using need in different environment.



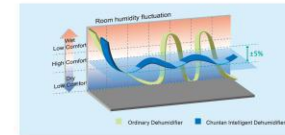
Double layer long-life filter

Mouldproof filter, antibacterial filter double defense, bacteriostatic mouldproof, air impurity classification filtering, dedusting and dispelling peculiar smell, providing more pure and fresh air.



Accurate dehumidifying performance

Ensuring a humidity constant of indoor air through the automatic induction device and microcomputer control board.



High reliability

Upholding the Chunan quality control system, the shell uses the high-quality anti-corrosion proof technology as well as strict material selection and precise testing to ensure a more sustainable time of use.

Application Area

scientific research, industry, transportation, medical and health service, goods storage, underground construction, library, archives and other places.

The computation of dehumidifier's applicable area should consider building structure, height and humidity-control requirements, etc. Generally recommend applicable area can refer to technical parameter list.

Applicable working range of normal temperature type: 18 ~ 35 °C;

Applicable working range of low temperature type: 5 ~ 35 °C.



C2DE-6/E-S
CDE-6/C-S



C2DE-3
CDE-3/A

Model		C2DE-3	C2DE-6/E-S	CDE-3/A	CDE-6/C-S
Dehumidifying Capacity	(Kg/h)RH60%	3	6	3	6
Noise level	dB(A)	55	58	54	57
Air Flow	m ³ /h	850	1500	850	1500
Charge	(Kg)	0.9(R22)	1.55(R22)	0.9(R22)	1.55(R22)
Power Supply	PH, V, Hz	1PH, 220V, 50Hz	3PH, 380V, 50Hz	1PH, 220V, 50Hz	3PH, 380V, 50Hz
Rated Power Input	(w)	1850	2800	1850	2800
Rated Current Input	(A)	8.5	5.75	8.5	5.75
Operation Temperature	°C	5-32	5-32	18-32	18-32
Net (Gross) Weight	(Kg)	58/60	100/105	56/60	100/105
Net Dimensions	(D×W×H mm)	516×398×946	600×400×1800	516×398×946	600×400×1800
Packing Dimensions	(D×W×H mm)	596×455×1000	690×495×1950	596×455×1000	690×495×1950
Applicable Area	m ²	20-40	50-80	20-40	50-80
Loading Quantity(set)		20/40/40H	36/74/74	90/198/198	36/74/74
Normal Conditions		Dry-bulb temperature 27.0°C, wet-bulb temperature 21.2°C; max load condition: dry-bulb tempera- ture 32.0°C, wet-bulb temperature 23.0°C; low-temperature condi- tion: dry-bulb temperature 5.0°C, wet-bulb temperature 2.1°C		Dry-bulb temperature 27.0°C, wet-bulb temperature 21.2°C; max load condition: dry-bulb tempera- ture 32.0°C, wet-bulb temperature 23.0°C; low-temperature condi- tion: dry-bulb temperature 18.0°C, wet-bulb temperature 13.5°C	

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