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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.



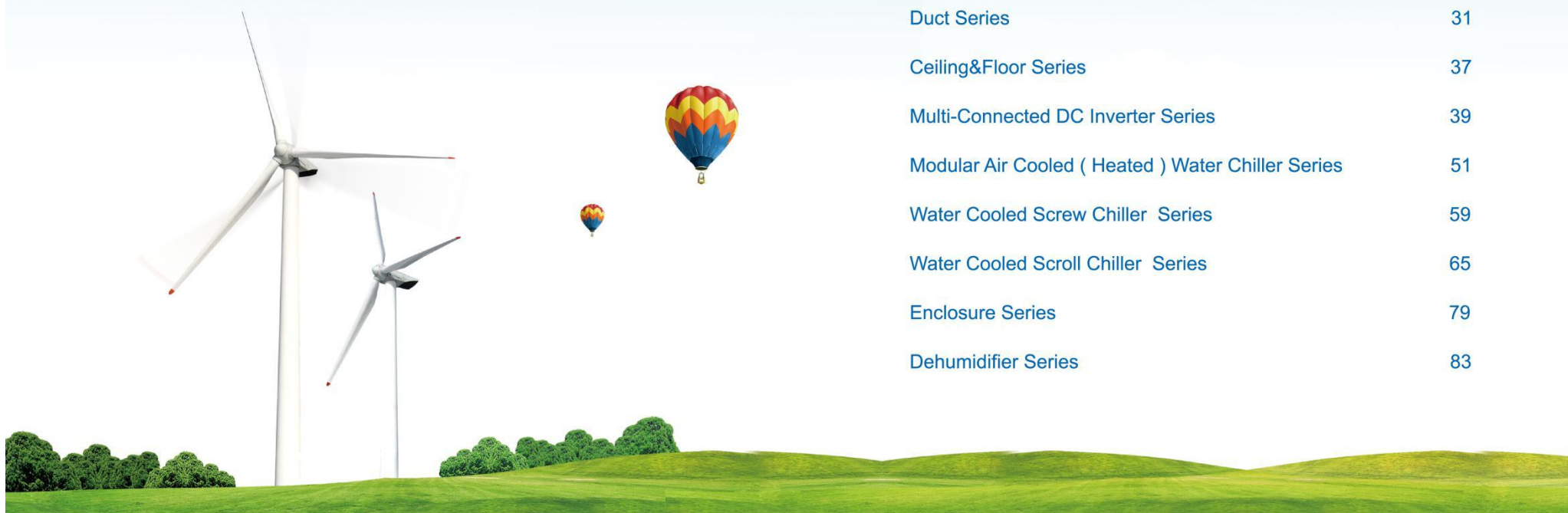
CHUNLAN

AIR CONDITIONERS



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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



SINCE 1973

Chunlan Air Conditioner Industry



The first set of Chunlan air conditioner was produced in 1973, it made Chunlan the longest professional history of air conditioner manufacturing in China. Meanwhile Chunlan also became the first listed company in domestic air conditioner industry.

Chunlan is devoted to the research and development of core technology of air conditioner all the time. Relying on world-class air conditioner design, inspection and manufacturing equipment, the multiple performances of Chunlan air conditioner lead all the way in quiet design, reliability and comfortableness etc.

For the past 50 years, the total production of Chunlan air conditioner is more than 80,000,000 sets.

Chunlan, the most-admired company in China, is honored as "King of Chinese Air Conditioner", "Pioneer of Chinese Air Conditioner". World-famous Chunlan is the common choice for more than 100 countries and millions of people in the world.

80,000,000

Brief history of Chunlan Air Conditioner

1973 The first set of air conditioner was produced.

1990 Chunlan air conditioner became the leader in Chinese air conditioner industry.

1994 Chunlan air conditioner got the approval of ISO 9001 from American Stanardization Association.

1995 Chunlan was awarded as " King of Air Conditioner" by Chinese government.

1997 Chunlan led Chinese air conditioner industry to enter the eighth year.

2000 Chunlan air conditioner created the highest reliability record of No Malfunction Identified Per 60,000 Hours.

2002 The noise level of Chunlan air conditioner was the best one during national inspection.

2002 Chunlan was authorized as CE inspection lab in China.

2008 The total production of Chunlan air conditioner breaks through 80,000,000.


2009 Chunlan produced 4P Green DC Inverter Air Conditioner.

2010 Chunlan was awarded "2010 Inverter Air Conditioning Technology Leadership".

CERTIFICATES



Advanced Technology



Extremely silent

Chunlan developed the new generation ultra-quiet air conditioner, which upgrades original patents mute technology to the second generation and promotes the standard of the mute to the extreme.

Extremely silent


Optimal design of outlet



Quiet and efficient motor

High efficient motor, more quiet operation sound field and more performance originated

Fan leaf shape optimization



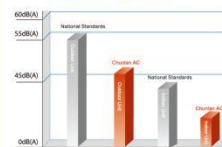
SILENCER double mute technology

Comprehensively and scientifically reduce the noise caused by the fan, motor and other vibration source at run-time of system to achieve internal and external dual mute. (Patent no.r: 201020694922.4)

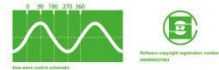
Innovative air outlet duct design of Chunlan air conditioner, can more effective reduce the noise of the ventilation system.

The fan leaf shape design have been optimized in accordance with the partial pressure change in sound propagating, to make the wind of air conditioner more gentle, smooth and lower noise.

Noice Correlation Table



180° vector DC inverter control technology



Independent IP 180° sine wave control technology can accurately detect the position of the rotor of the compressor and make the compressor operating current and the sine anastomosis consistent. Compared with the 120° square wave technology, it can improve the operating efficiency of the compressor.

System balance technology

After the objective, accurate calculation and analysis on a number of technical and economic evaluation factors, our engineer built fully quantitative mathematical model to achieve a comprehensive balance based on scientific comparison and optimization. The balance include the balance of indoor and outdoor heat exchanger, the balance between compressor and system, the balance between wind field and system, the balance between the system shunts etc., which improve by 32% of operating performance system.



Modal analysis technology

Modal analysis, which is generally used for aircraft manufacturing, is applied in air conditioner design by chunlan. Chunlan adopts more accurate and more efficient vibration modal analysis technology to analyze specific natural frequency of components, damping ratio and modal modes, and design products. By this way, chunlan makes the quality of each components more perfect.



Excellent Quality

High Efficient Compressor



Chunlan air conditioner adapts high efficient compressor, and creates an extra ordinary standard of failure-free operation for average 60000 hours.

High quality internal thread copper tube



Chunlan, always selects high quality pats, adapts W-shape high quality internal thread copper tubes for each set of air conditioner, which can further improve the efficiency of heat exchange.

Blue multi-stage evaporator




Chunlan air conditioner heat exchange system with the blue multi-stage evaporator, hasa unique hydrophilic membrane coating, which can enhance the heat exchange surface area and make highly heat exchange efficient.

Pretty Appearance

Minimalist aesthetic appearance

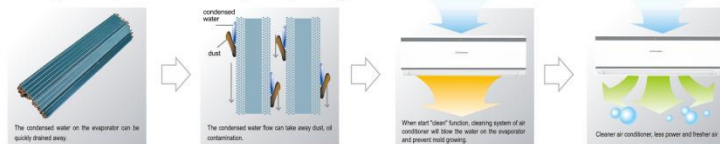
White as pearl, mellow perception, personality lines sketch out the charming radians, minimalist aesthetic design, artistically natural, perfectly fit the minimalist approach to life that you advocate.



Healthy Concerns

Auto self-cleaning heat exchanger

One of the main reasons of odour emitting from an air conditioner is the dust and bacteria inserting on the evaporator. Auto self-cleaning function can clean the evaporator automatically and reduce the possibility of dust and bacteria inserting inside of the evaporator. Meanwhile, clean evaporator helps the air conditioner keep working efficiently.



High-density air filters

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

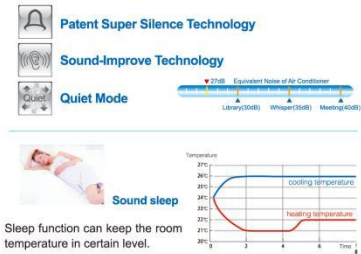


Comfortable Sensibility

Patent Super Silence Technology

Sound-Improve Technology

Quiet Mode



Sound sleep

Sleep function can keep the room temperature in certain level.

Smart Wind Direction Design

According to the needs for the cooling and heating, judge the wind upstream or downstream. When Upon cooling vents is up, cold air from the top to down and rapid cooling. When Upon heating vent is down, hot air from the bottom to up rapid heating.

Anti Cold Wind Design

Under heating mode, with anti-cold wind function the indoor unit only begins to blow after heating temperature is warm enough, no cold wind from fan.

Line Up 2019

R32 DC Inverter

Btu/h



A++

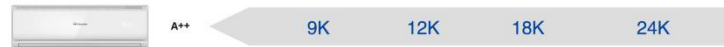


9K

12K

18K

24K



A++



9K

12K

18K

24K

R410 DC Inverter



A++



9K

12K

18K

24K

R410 ON/OFF



High EER

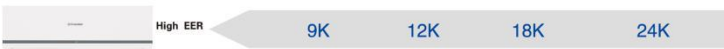


9K

12K

18K

24K



High EER



9K

12K

18K

24K



High EER



9K

12K

18K

24K

R22 ON/OFF



High EER



9K

12K

18K

24K



High EER

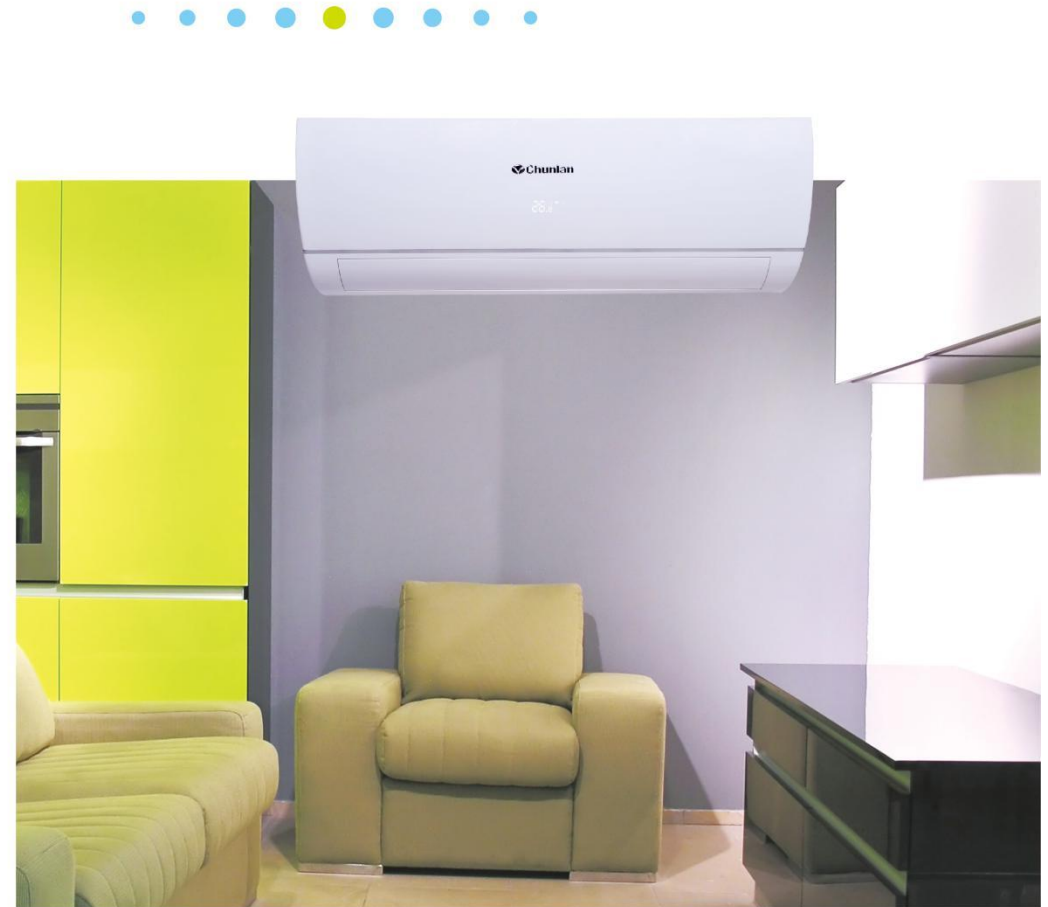


9K

12K

18K

24K



Wall Split Air Conditioners

Wall Split Series

R32 DC Inverter(A++Class) Complying With New ErP Standard



A++

BX



A++

VEA

CFC-free R32 environmental refrigerant



Air conditioner maximize energy efficiency and can achieve the energy saving performance of the air conditioner.



The rate of the destruction of the ozone layer tends to be zero, which makes a great contribution to the earth.



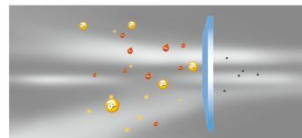
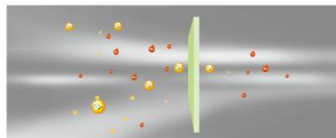
Excellent thermal performance of the eco-friendly refrigerant R32 can generate more powerful cooling and heating capacity.



R32 is the new environmental friendly refrigerant all over the world, which is clean, eco friendly with negligible GWP value. It has a great potential to be used in many countries.

High-density filter

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



Specification 【DC Inverter】

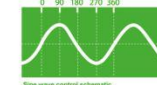
07/08

International leading vector control chip



The chip is the "brain" of the air conditioning and the core control parts determining the air conditioning performance. Chunlan adopts Japanese Renesas High-performance 32-bit vector control chip technology to greatly enhance operating efficiency and ensure the system stable.

180 ° vector DC inverter control technology



Software copyright registration number 2005SR027963

Independent IP 180 ° sine wave control technology can accurately detect the position of the rotor of the compressor and make the compressor operating current and the sine anastomosis consistent. Compared with the 120 ° square wave technology, it can improve the operating efficiency of the compressor.

Performance		Model	CS-09R/BXBPWc	CS-12R/BXBPWc	CS-18R/BXBPWc	CS-24R/BXBPWc
Refrigerant			R32	R32	R32	R32
Cooling Capacity	Btu/h		9000(3400~11000)	12000(3500~13000)	18000(6000~19000)	24000(5000~25000)
Heating Capacity	Btu/h		9000(3400~13000)	12000(3500~15000)	18000(6000~22000)	24000(5000~27000)
Power Supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
SEER	W/W		6.1	6.1	6.1	6.1
Cooling Energy Rate			A++	A++	A++	A++
SCOP	W/W		4.0	4.0	4.0	4.0
Heating Energy Rate			A+	A+	A+	A+
Air Flow Volume	(indoor)	m³/h	520	650	900	1200
Noise Level	(dB(A))					
	Indoor		42/37/32/27	42/37/32/27	46/39/35/30	48/42/39/32
	Outdoor		52	52	55	58
Net Dimensions	(WxDxH)					
	Inside(mm)		786x300x213	866x300x213	1076x338x228	1076x338x228
	Outside (mm)		760x537x259	760x537x259	760x663x259	823x646x275
Net Weight	(kg)					
	Indoor/Outdoor		9.5/30	10.5/32	14/39	15/50
Packing Dimensions	(WxDxH)					
	Indoor (mm)		856x395x298	936x395x298	1176x412x300	1176x412x300
	Outdoor (mm)		896x586x352	896x586x352	896x712x352	980x730x400
Gross Weight	(kg)					
	Indoor/Outdoor		11.5/35	12.5/37	16/44	17/55
Pipe Size (inch)						
	Liquid		1/4"	1/4"	1/4"	3/8"
	Gas		3/8"	3/8"	1/2"	5/8"
Applicable Area	m²		12-17	16-25	20-35	30-50
Loading Quantity	(set)		20'/40'/40'HQ	105/220/242	100/210/235	76/162/184
						66/142/158

Performance		Model	CS-09R/VEABPWc	CS-12R/VEABPWc	CS-18R/VEABPWc	CS-24R/VEABPWc
Refrigerant			R32	R32	R32	R32
Cooling Capacity	Btu/h		9000(3400~11000)	12000(3500~13000)	18000(6000~19000)	24000(5000~25000)
Heating Capacity	Btu/h		9000(3400~13000)	12000(3500~15000)	18000(6000~22000)	24000(5000~27000)
Power Supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
SEER	W/W		6.1	6.1	6.1	6.1
Cooling Energy Rate			A++	A++	A++	A++
SCOP	W/W		4.0	4.0	4.0	4.0
Heating Energy Rate			A+	A+	A+	A+
Air Flow Volume	(indoor)	m³/h	520	620	950	1150
Noise Level	(dB(A))					
	Indoor		42/37/32/27	42/37/32/27	46/39/35/30	48/42/39/32
	Outdoor		52	52	55	58
Net Dimensions	(WxDxH)					
	Inside(mm)		760x180x260	840x180x260	1062x220x327	1062x220x327
	Outside (mm)		760x537x259	760x537x259	760x663x259	823x646x275
Net Weight	(kg)					
	Indoor/Outdoor		9.5/30	10.5/32	14/39	15/50
Packing Dimensions	(WxDxH)					
	Indoor (mm)		875x265x340	955x265x340	1176x300x412	1176x300x412
	Outdoor (mm)		896x586x352	896x586x352	896x712x352	980x730x400
Gross Weight	(kg)					
	Indoor/Outdoor		11.5/35	12.5/37	16/44	17/55
Pipe Size (inch)						
	Liquid		1/4"	1/4"	1/4"	1/4"
	Gas		3/8"	3/8"	1/2"	3/8"
Applicable Area	m²		12-17	16-25	20-35	30-50
Loading Quantity	(set)		20'/40'/40'HQ	110/232/260	108/230/235	76/162/184
						66/142/158

Wall Split Series

R410A DC Inverter(A++Class) Complying With New ErP Standard



A++

BX

Artistic modeling

With the modern and artistic design, people enjoy not only air conditioning but also decoration.

Hidden LED

The hidden dynamic LED display conveys power and intelligent.



Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Heating anti-cold design



Independent Ventilation



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost



Specification 【DC Inverter】

09/10

High efficient DC inverter compressor



Adopting efficient DC inverter compressor, whose rotor is rare earth permanent magnets which runs through magnetic field interaction of rotor after electrifying, achieves stepless speed regulation and more precise control to ensure energy efficient of air conditioning core components.

Inverter Class A++ Energy Efficiency Energy saving & High Efficiency



When the unit runs under an ultra-low frequency, the lowest power just equates to the power of a bulb, which also helps the system running with constant temperature. The energy saving performance reaches a new level.



Chunlan developed the new generation ultra-quiet air conditioner, which upgrades original patents mule technology to the second generation and promotes the standard of the mule to the extreme.

Seven peculiar compressor technology

1. Demagnetization current protects the compressor.
2. PFC low frequency control makes running current waveform of compressor tends to be sine wave and steady current through torque compensation to save more energy.
3. Weak magnetic control increases the frequency of the compressor, enhances the refrigeration and heating efficiency of air conditioner and make the compressor run more smoothly.
4. Through maximum torque current control, the air conditioner efficiently and smoothly operates.
5. Torque control reduces compressor vibration and noise.
6. Compressor starting program makes the compressor starts more stable and one hundred percent successful startup.
7. The dead zone in compensating software control as well as the precise positioning of the position of the rotor makes the compressor operation current waveform in near the vicinity of zero and a crest smoother.

High Efficient Compressor



Chunlan air conditioner adapts high efficient compressor, and creates an extra ordinary standard of failure-free operation for average 60000 hours.

High quality internal thread copper tube



Chunlan, always selects high quality parts, adapts W-shape high quality internal thread copper tubes for each set of air conditioner, which can further improve the efficiency of heat exchange.

Blue multi-stage evaporator



Chunlan air conditioner heat exchange system with the blue multi-stage evaporator, has a unique hydrophilic membrane coating, which can enhance the heat exchange surface area and make highly heat exchange efficient.

Performance		Model	CS-09R/BXBPWw	CS-12R/BXBPWw	CS-18R/BXBPWw	CS-24R/BXBPWw
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity		Btu/h	9000(3400~11000)	12000(3500~13000)	18000(6000~19000)	24000(5000~25000)
Heating Capacity		Btu/h	9000(3400~13000)	12000(3500~15000)	18000(6000~22000)	24000(5000~27000)
Power Supply		Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
SEER		W/W	6.1	6.1	6.1	6.1
Cooling Energy Rate			A++	A++	A++	A++
SCOP		W/W	4.0	4.0	4.0	4.0
Heating Energy Rate			A+	A+	A+	A+
Air Flow Volume (indoor)		m³/h	520	650	900	1200
Noise Level (dB(A))		Indoor	42/37/32/27	42/37/32/27	46/39/35/30	48/42/39/32
		Outdoor	52	52	55	58
Net Dimensions (WxDxH)		Inside(mm)	786x300x213	866x300x213	1076x338x228	1076x338x228
		Outside (mm)	760x537x259	760x537x259	760x663x259	823x646x275
Net Weight (kg)		Indoor/Outdoor	9.5/30	10.5/32	14/39	15/50
		Indoor (mm)	856x395x298	936x395x298	1176x412x300	1176x412x300
Packing Dimensions (WxDxH)		Outdoor (mm)	896x586x352	896x586x352	896x712x352	980x730x400
		Indoor/Outdoor	11.5/35	12.5/37	16/44	17/55
Gross Weight (kg)		Liquid	1/4"	1/4"	1/4"	3/8"
		Gas	3/8"	3/8"	1/2"	5/8"
Applicable Area		m²	12-17	16-25	20-35	30-50
Loading Quantity (set)			20/40/40/HQ	100/210/235	76/162/184	66/142/158

All above models are different in indoor panel design ,but the same in technical specification.

- 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.
- Chunlan 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.

Wall Split Series

R410A ON/OFF High Efficiency



AZ3



AZ3



BX



VEA



Specification 【ON-OFF】

11/12

Performance		Model	CS-09(R)/AZ3Wa-E3	CS-12(R)/AZ3Wa-E3	CS-18(R)/AZ3Wa-E3	CS-24(R)/AZ3Wa-E3
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9000	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	18000	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1060	1650	2300
Rated Heating Power Input	W		800	980	1700	2400
Rated Cooling Operating Current	A		3.8	4.9	7.6	10.7
Rated Heating Operating Current	A		3.7	4.5	7.9	11.1
Air Flow Volume(indoor)	m³/h		470	520	885	1250
Noise Level (dB(A))	Indoor		26/30/32/35	30/33/36/40	42/45/48/51	40/43/46
	Outdoor		50	51	54	57
Net Dimensions W×D×H	Inside (mm)		820×190×274	820×190×274	900×190×283	1150×242×325
	Outside (mm)		650×250×506	760×259×537	760×259×663	823×275×646
Net Weight (kg)	Indoor/Outdoor		8.1/25.5	8.1/31	13.6/48	15/61
	Indoor (mm)		880×270×360	880×270×360	1020×280×380	1310×347×440
Packing Dimensions W×D×H	Indoor (mm)		790×370×565	896×352×586	896×352×712	980×400×730
	Indoor/Outdoor		10.6/28.5	10.6/36	13.6/48	18/69
Pipe Size (inch)	Liquid		1/4"	1/4"	1/4"	3/8"
	Gas		3/8"	1/2"	1/2"	5/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity (set)			20/40/40/HQ	115/240/280	85/178/204	58/122/140

Performance		Model	CS-09(R)/BXWa-E3	CS-12(R)/BXWa-E3	CS-18(R)/BXWa-E3	CS-24(R)/BXWa-E3
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9000	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	18000	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1060	1650	2300
Rated Heating Power Input	W		800	980	1700	2400
Rated Cooling Operating Current	A		3.8	4.9	7.6	10.7
Rated Heating Operating Current	A		3.7	4.5	7.9	11.1
Air Flow Volume(indoor)	m³/h		470	520	885	1250
Noise Level (dB(A))	Indoor		26/30/32/35	30/33/36/40	42/45/48/51	40/43/46
	Outdoor		50	51	54	57
Net Dimensions W×D×H	Inside (mm)		786×300×213	866×300×213	1076×228×338	1076×228×338
	Outside (mm)		650×250×506	760×259×537	760×259×663	823×275×646
Net Weight (kg)	Indoor/Outdoor		8.1/25.5	8.1/31	13.6/48	15/61
	Indoor (mm)		856×395×298	936×395×298	1176×300×412	1176×300×412
Packing Dimensions W×D×H	Indoor (mm)		790×370×565	896×352×586	896×352×712	980×400×730
	Indoor/Outdoor		10.6/28.5	10.6/36	13.6/48	18/69
Pipe Size (inch)	Liquid		1/4"	1/4"	1/4"	3/8"
	Gas		3/8"	1/2"	1/2"	5/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity (set)			20/40/40/HQ	112/238/268	100/210/235	78/162/184

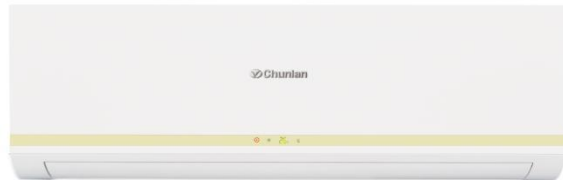
Performance		Model	CS-09(R)/VEAWa-E3	CS-12(R)/VEAWa-E3	CS-18(R)/VEAWa-E3	CS-24(R)/VEAWa-E3
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9000	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	18000	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1060	1650	2300
Rated Heating Power Input	W		800	980	1700	2400
Rated Cooling Operating Current	A		3.8	4.9	7.6	10.7
Rated Heating Operating Current	A		3.7	4.5	7.9	11.1
Air Flow Volume(indoor)	m³/h		470	520	885	1250
Noise Level (dB(A))	Indoor		26/30/32/35	30/33/36/40	42/45/48/51	40/43/46
	Outdoor		50	51	54	57
Net Dimensions W×D×H	Inside (mm)		760×180×260	840×180×260	1062×220×327	1062×220×327
	Outside (mm)		650×250×506	760×259×537	760×259×663	823×275×646
Net Weight (kg)	Indoor/Outdoor		8.1/25.5	8.1/31	13.6/48	15/61
	Indoor (mm)		875×265×340	955×265×340	1176×300×412	1176×300×412
Packing Dimensions W×D×H	Indoor (mm)		790×370×565	896×352×586	896×352×712	980×400×730
	Indoor/Outdoor		10.6/28.5	10.6/36	13.6/48	18/69
Pipe Size (inch)	Liquid		1/4"	1/4"	1/4"	3/8"
	Gas		3/8"	1/2"	1/2"	5/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity (set)			20/40/40/HQ	120/254/280	108/230/255	76/162/184

Wall Split Series

R410A ON/OFF Super High Efficiency



AZ3



AZ3

Hidden LED

The hidden dynamic LED display conveys power and intelligent.

Simple acrylic molding

Black/Silver transparent mirror acrylic molding well matches your room with simple style and aesthetic feeling.



Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Heating anti-cold design



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost



Specification 【ON-OFF】

13/14

High Efficient Compressor



Chunlan air conditioner adapts high efficient compressor, and creates an extra ordinary standard of failure-free operation for average 60000 hours.

High quality internal thread copper tube



Chunlan, always selects high quality pats, adapts W-shape high quality internal thread copper tubes for each set of air conditioner, which can further improve the efficiency of heat exchange.

Blue multi-stage evaporator



Chunlan air conditioner heat exchange system with the blue multi-stage evaporator, has a unique hydrophilic membrane coating, which can enhance the heat exchange surface area and make highly heat exchange efficient.

Complying With Australia GEMS Standard

Performance	Model	CS-09(R)/AZ3Wa-E0	CS-12(R)/AZ3Wa-E0	CS-18(R)/AZ3Wa-E1	CS-24(R)/AZ3Wa-E1
Refrigerant		R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9050	12000	1800	24000
Heating Capacity	Btu/h	9000	12100	1800	24000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	710	935	1420	1950
Rated Heating Power Input	W	700	940	1500	2050
Rated Cooling Operating Current	A	3.1	4.2	6.6	9.0
Rated Heating Operating Current	A	3.1	4.2	7.0	9.5
Air Flow Volume(indoor)	m³/h	550	650	950	1150
Noise Level (dB(A))					
	Indoor	26/30/32/35	26/29/32/36	39/43/46	42/45/48
	Outdoor	49	50	57	60
Net Dimensions	W×D×H				
	Inside (mm)	820x190x274	900x190x283	900x190x283	1150x242x325
	Outside (mm)	760x259x537	760x259x663	823x275x646	950x310x745
Net Weight	(kg)				
	Indoor/Outdoor	7.7/32	12/34	12/34	19/65
Packing Dimensions	W×D×H				
	Indoor (mm)	880x270x360	1020x280x380	1310x347x440	1310x347x440
	Outdoor (mm)	896x352x600	896x352x712	980x400x730	1125x420x875
Gross Weight	(kg)				
	Indoor/Outdoor	9.2/36	13.6/38	19/58	22/ 73
Pipe Size	(inch)				
	Liquid	1/4"	1/4"	1/4"	3/8"
	Gas	3/8"	1/2"	1/2"	5/8"
Applicable Area	m²	12-17	16-25	20-35	35-50
Loading Quantity	(set)	20/40/40/HQ	87/175/198	58/122/132	42/90/108

Complying With Israel SII Standard

Performance	Model	CS-09(R)/AZ3Wa-E0	CS-12(R)/AZ3Wa-E0	CS-18(R)/AZ3Wa-E1	CS-24(R)/AZ3Wa-E1
Refrigerant		R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9050	12000	1800	24000
Heating Capacity	Btu/h	9000	12100	1800	24000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	710	935	1420	1950
Rated Heating Power Input	W	700	940	1500	2050
Rated Cooling Operating Current	A	3.1	4.2	6.6	9.0
Rated Heating Operating Current	A	3.1	4.2	7.0	9.5
Air Flow Volume(indoor)	m³/h	550	650	950	1150
Noise Level (dB(A))					
	Indoor	26/30/32/35	26/29/32/36	39/43/46	42/45/48
	Outdoor	49	50	57	60
Net Dimensions	W×D×H				
	Inside (mm)	820x190x274	900x190x283	900x190x283	1150x242x325
	Outside (mm)	760x259x537	760x259x663	823x275x646	950x310x745
Net Weight	(kg)				
	Indoor/Outdoor	7.7/32	12/34	16/50	19/65
Packing Dimensions	W×D×H				
	Indoor (mm)	880x270x360	1020x280x380	1020x280x380	1310x347x440
	Outdoor (mm)	896x352x600	896x352x712	980x400x730	1125x420x875
Gross Weight	(kg)				
	Indoor/Outdoor	9.2/36	13.6/38	19/58	22/ 73
Pipe Size	(inch)				
	Liquid	1/4"	1/4"	1/4"	3/8"
	Gas	3/8"	1/2"	1/2"	5/8"
Applicable Area	m²	12-17	16-25	20-35	35-50
Loading Quantity	(set)	20/40/40/HQ	87/175/198	58/122/132	42/90/108

All above models are different in indoor panel design, but the same in technical specification.

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Wall Split Series

R22 ON/OFF High Efficiency



BX



VEA

High Efficient Compressor



Chunlan air conditioner adapts high efficient compressor, and creates an extra ordinary standard of failure-free operation for average 60000 hours.

High quality internal thread copper tube



Chunlan, always selects high quality pats, adapts W-shape high quality internal thread copper tubes for each set of air conditioner, which can further improve the efficiency of heat exchange.

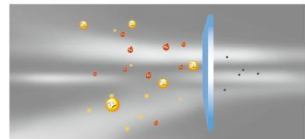
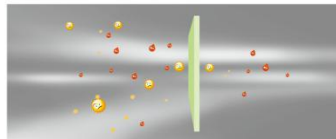
Blue multi-stage evaporator



Chunlan air conditioner heat exchange system with the blue multi-stage evaporator, hasa unique hydrophilic membrane coating, which can enhance the heat exchange surface area and make highly heat exchange efficient.

High-density filter

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



Specification 【ON-OFF】

15/16

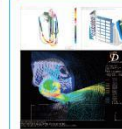
Anti Cold Wind Design

Under heating mode, with anti-cold wind function the indoor unit only begins to blow after heating temperature is warm enough, no cold wind from fan.



Modal analysis technology

Chunlan adopts more accurate and more efficient vibration modal analysis technology to analyze specific natural frequency of components, damping ratio and modal modes, and design products. By this way, chunlan makes the quality of each components more perfect.



Performance		Model	CS-09(R)/BX-E3	CS-12(R)/BX-E3	CS-18(R)/BX-E3	CS-24(R)/BX-E3
Refrigerant			R22	R22	R22	R22
Cooling Capacity	Btu/h		9000	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	18000	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1060	1650	2300
Rated Heating Power Input	W		800	990	1700	2400
Rated Cooling Operating Current	A		3.8	4.9	7.6	10.7
Rated Heating Operating Current	A		3.7	4.5	7.9	11.1
Air Flow Volume(indoor)	m³/h		470	520	885	1250
Noise Level (dB(A))	Indoor		26/30/32/35	30/33/36/40	42/45/48/51	40/43/46
	Outdoor		50	51	54	57
Net Dimensions W×D×H	Inside (mm)		786x300x213	866x300x213	1076x228x338	1076x228x338
	Outside (mm)		650x250x506	760x259x537	760x259x663	823x275x646
Net Weight (kg)	Indoor/Outdoor		8.1/25.5	8.1/31	13.6/48	15/61
	Indoor (mm)		856x395x298	936x395x298	1176x300x412	1176x300x412
Packing Dimensions W×D×H	Outdoor (mm)		790x370x565	896x352x586	896x352x712	980x400x730
	Indoor/Outdoor		10.6/28.5	10.6/36	13.6/48	18/69
Gross Weight (kg)						
Pipe Size (inch)	Liquid		1/4"	1/4"	1/4"	3/8"
	Gas		3/8"	1/2"	1/2"	5/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity	(set)		112/238/268	100/210/235	76/162/184	66/142/158

Performance		Model	CS-09(R)/VEA-E3	CS-12(R)/VEA-E3	CS-18(R)/VEA-E3	CS-24(R)/VEA-E3
Refrigerant			R22	R22	R22	R22
Cooling Capacity	Btu/h		9000	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	18000	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1060	1650	2300
Rated Heating Power Input	W		800	990	1700	2400
Rated Cooling Operating Current	A		3.8	4.9	7.6	10.7
Rated Heating Operating Current	A		3.7	4.5	7.9	11.1
Air Flow Volume(indoor)	m³/h		470	520	885	1250
Noise Level (dB(A))	Indoor		26/30/32/35	30/33/36/40	42/45/48/51	40/43/46
	Outdoor		50	51	54	57
Net Dimensions W×D×H	Inside (mm)		760x180x260	840x180x260	1062x220x327	1062x220x327
	Outside (mm)		650x250x506	760x259x537	760x259x663	823x275x646
Net Weight (kg)	Indoor/Outdoor		8.1/25.5	8.1/31	13.6/48	15/61
	Indoor (mm)		875x265x340	955x265x340	1176x300x412	1176x300x412
Packing Dimensions W×D×H	Outdoor (mm)		790x370x565	896x352x586	896x352x712	980x400x730
	Indoor/Outdoor		10.6/28.5	10.6/36	13.6/48	18/69
Gross Weight (kg)						
Pipe Size (inch)	Liquid		1/4"	1/4"	1/4"	3/8"
	Gas		3/8"	1/2"	1/2"	5/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity	(set)		120/254/280	108/230/255	76/162/184	66/142/158

All above models are different in indoor panel design ,but the same in technical specification.

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Window Air Conditioners



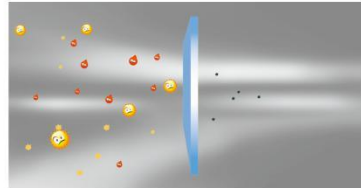
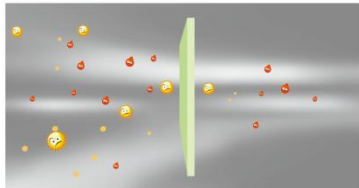
A



B

High-density air filters

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



Features



Wide Voltage Start



High quality internal threaded copper pipe



Timer



Fresh Air



Multi-Dimensional Air Circulation



Brand name and high efficiency compressor

Performance		Model	CW-09/12	CW-12/12	CW-18/1	CW-18R/1
Refrigerant			R22	R22	R22	R22
Cooling Capacity	Btu/h		9000	12000	18000	18000
Heating Capacity	Btu/h					18000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		1060	1330	2100	2200
Rated Heating Power Input	W					2000
Rated Cooling Operating Current	A		5.1	6.3	9.9	10.5
Rated Heating Operating Current	A					9.5
Air Flow Volume(indoor)	m ³ /h		350	350	780	780
Noise Level (dB(A))	Inside/outside		53/58	53/59	60/65	60/67.5
Net Dimensions	W × D × H	mm	520×495×340	520×495×340	756×660×436	756×660×436
Net Weight	kg		29	31	58	72
Packing Dimensions	W × D × H	mm	610×576×435	610×576×435	850×750×525	850×750×525
Gross Weight	kg		32	35	64	78
Applicable Area	m ²		12-17	16-25	24-40	24-40
Loading Quantity	(set)		20'/40'/40'HQ	178/378/454	84/168/208	84/168/208

Performance		Model	C3W-18/B	C3W-18R/B	C3W-18/B-60	C3W-20/B	C3W-20R/B
Refrigerant			R22	R22	R22	R22	R22
Cooling Capacity	Btu/h		18000	18000	18000	20000	20000
Heating Capacity	Btu/h			18000			20000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 60	1, 220, 60	1, 220, 60
Rated Cooling Power Input	W		1900	2400	2200	2400	2750
Rated Heating Power Input	W			2400			2750
Rated Cooling Operating Current	A		8.8	11.3	10.2	11.0	12.8
Rated Heating Operating Current	A			11.3			12.8
Air Flow Volume(indoor)	m ³ /h		750	750	750	850	850
Noise Level (dB(A))	Inside/outside		59/65	58/67.5	59/64	62/69	62/69
Net Dimensions	W × D × H	mm	756×660×436	756×660×436	756×660×436	756×660×436	756×660×436
Net Weight	kg		58	72	58	62	75
Packing Dimensions	W × D × H	mm	850×750×525	850×750×525	850×750×525	850×750×525	850×750×525
Gross Weight	kg		64	78	64	68	81
Applicable Area	m ²		23-39	23-39	23-39	30-50	30-50
Loading Quantity	(set)		20'/40'/40'HQ	84/168/208	84/168/208	84/168/208	84/168/208

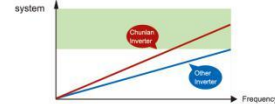
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Chunlan innovative technologies

Inverter potential optimization technology

Improved technology of inverter system optimizes quadratic node and interval of units operation frequency, and also expand potential performance of heating and cooling. Under same operating frequency, the units may reach required cooling or heating capacity at speed, and less energy consumption. It realizes the revolutionary breakthrough of inverter technology.



System balance technology

After the objective, accurate calculation and analysis on a number of technical and economic evaluation factors, our engineer built fully quantitative mathematical model to achieve a comprehensive balance based on scientific comparison and optimization. The balance include the balance of indoor and outdoor heat exchanger, the balance between compressor and system, the balance between wind field and system, the balance between the system shunts etc., which improve by 32% of operating performance system.



System balance technology

Modal analysis technology

Modal analysis, which is generally used for aircraft manufacturing, is applied in air conditioner design by chunlan. Chunlan adopts more accurate and more efficient vibration modal analysis technology to analyze specific natural frequency of components, damping ratio and modal modes, and design products. By this way, chunlan makes the quality of each components more perfect.

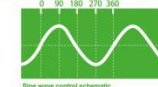


International leading vector control chip



The chip is the "brain" of the air conditioning and the core control parts determining the air conditioning performance. Chunlan adopts Japanese Renesas High-performance 32-bit vector control chip technology to greatly enhance operating efficiency and ensure the system stable.

180 ° vector DC inverter control technology



Independent IP 180 ° sine wave control technology can accurately detect the position of the rotor of the compressor and make the compressor operating current and the sine anastomosis consistent. Compared with the 120 ° square wave technology, it can improve the operating efficiency of the compressor.

Features



Patent Super Silence Technology



Controllable Accessorial Electric Heating (Operation)



Strong Independent Dehumidification



Anti Cool Air Function



Independent Ventilation Button



Backlight Remote Control



24 Hour Timer



Wide Voltage Start



Independent Digital Display Button



Intelligent Defrost



Wide Climate Design

Performance	Model	CF-18R/VF4-E3	CF-24R/VF4-E3	CF-24(R)/VF4Wa-E3
Refrigerant		R22	R22	R410a
Cooling Capacity	Btu/h	18000	24600	24600
Heating Capacity	Btu/h	18800	26000	26000
Power supply	Ph. V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	1610	2400	2550
Rated Heating Power Input	W	1500	2450	2390
Rated Cooling Operating Current	A	7.5	11.2	12.0
Rated Heating Operating Current	A	7.0	11.4	11.0
Air Flow Volume (Indoor)	m³/h	850	1000	1000
Noise Level (dB(A))				
	Indoor	39/42/45	45/48/51	45/48/51
	Outdoor	55	60	60
Net Dimensions	W×D×H			
	Inside (mm)	500x285x1780	500x285x1780	500x285x1780
	Outside (mm)	823x275x646	950x310x745	950x310x745
Net Weight (kg)				
	Indoor/Outdoor	37/54	39/65	39/63
Packing Dimensions	W×D×H			
	Indoor (mm)	690x425x1915	690x425x1915	690x425x1915
	Outdoor (mm)	980x400x730	1125x420x875	1125x420x875
Gross Weight (kg)				
	Indoor/Outdoor	45/62	47/73	47/71
Pipe Size (inch)				
	Liquid	1/4"	3/8"	3/8"
	Gas	1/2"	5/8"	5/8"
Applicable Area	m²	20-37	30-58	30-58
Loading Quantity (set)		20/40/1401HQ	28/59/70	28/59/70

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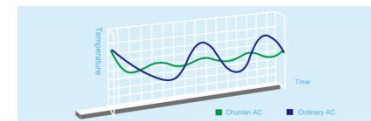
Floor Standing Air Conditioners

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**

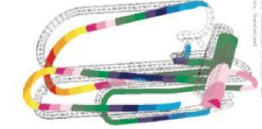
Constant temperature is guaranteed by intelligent precise temperature control, which will decide the cooling mode automatically according to the difference of ambient temperature and room temperature.

**LED full screen dynamic display**

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

**Low noise**

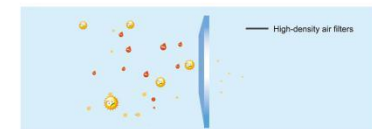
By application of the finite element analysis technology and air flow field stimulation technology, noise from vibration of the compressor and other moving parts is decreased a lot.

**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 then translates into cleaner air.



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



Floor Standing Air Conditioner



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		45000(8200)	45000(8200)		45000(8200)	45000(8200)
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	4320	3900	3900	3900
Rated Heating Power Input	W		4700(2400)	4420(2400)		3900(2400)	3900(2400)
Rated Cooling Operating Current	A	7.1	7.1	7.4	6.0	6.0	6.0
Rated Heating Operating Current	A		7.2(11)	7.5(11)		6.0(11)	6.0(11)
Air Flow Volume(indoor)	m ³ /h	1600	1600	1600	1600	1600	1600
Noise Level (dB(A))	Indoor	54	54	54	52	52	52
	Outdoor	60	60	60	60	60	60
Net Dimensions W×D×H	Inside (mm)	540x370x1820	540x370x1820	540x370x1820	540x370x1820	540x370x1820	540x370x1820
	Outside (mm)	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157
Net Weight (kg)	Indoor/Outdoor	51/99	51/103	51/103	51/109	51/113	51/113
Packing Dimensions W×D×H	Indoor (mm)	635x470x1920	635x470x1920	635x470x1920	635x470x1920	635x470x1920	635x470x1920
	Outdoor (mm)	1100x480x1355	1100x480x1355	1100x480x1355	1100x480x1355	1100x480x1355	1100x480x1355
Gross Weight (kg)	Indoor/Outdoor	60/114	60/118	60/118	60/124	60/128	60/128
Applicable Area	m ²	60-120	60-120	60-120	60-120	60-120	60-120
Loading Quantity (set)		20'/40'/40'HQ	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		45000(8200)	45000(8200)		45000(8200)	45000(8200)
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	4320	3900	3900	3900
Rated Heating Power Input	W		4700(2400)	4420(2400)		3900(2400)	3900(2400)
Rated Cooling Operating Current	A	7.1	7.1	7.4	6.0	6.0	6.0
Rated Heating Operating Current	A		7.2(11)	7.5(11)		6.0(11)	6.0(11)
Air Flow Volume(indoor)	m ³ /h	1600	1600	1600	1600	1600	1600
Noise Level (dB(A))	Indoor	54	54	54	52	52	52
	Outdoor	60	60	60	60	60	60
Net Dimensions W×D×H	Inside (mm)	540x370x1820	540x370x1820	540x370x1820	540x370x1820	540x370x1820	540x370x1820
	Outside (mm)	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157
Net Weight (kg)	Indoor/Outdoor	51/99	51/103	51/103	51/109	51/113	51/113
Packing Dimensions W×D×H	Indoor (mm)	635x470x1920	635x470x1920	635x470x1920	635x470x1920	635x470x1920	635x470x1920
	Outdoor (mm)	1100x480x1355	1100x480x1355	1100x480x1355	1100x480x1355	1100x480x1355	1100x480x1355
Gross Weight (kg)	Indoor/Outdoor	60/114	60/118	60/118	60/124	60/128	60/128
Applicable Area	m ²	60-120	60-120	60-120	60-120	60-120	60-120
Loading Quantity (set)		20'/40'/40'HQ	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		100000(20500)	100000(20500)		100000(20500)
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	10200	9100	9100
Rated Heating Power Input	W		9400(6000)	10200(6000)		9000(6000)
Rated Cooling Operating Current	A	19.8	19.8	20.0	18.5	18.5
Rated Heating Operating Current	A		19(9.1)	20(9.1)		18.4(9.1)
Air Flow Volume(indoor)	m ³ /h	4200	4200	4200	4200	4200
Noise Level (dB(A))	Indoor	61	61	61	61	61
	Outdoor	63	63	63	63	63
Net Dimensions W×D×H	Inside (mm)	1200x400x1813	1200x400x1813	1200x400x1813	1200x400x1813	1200x400x1813
	Outside (mm)	980x980x1061	980x980x1061	980x980x1061	980x980x1061	980x980x1061
Net Weight (kg)	Indoor/Outdoor	140/162	145/182	145/182	150/172	155/192
Packing Dimensions W×D×H	Indoor (mm)	1295x500x1977	1295x500x1977	1295x500x1977	1295x500x1977	1295x500x1977
	Outdoor (mm)	1026x1026x1215	1026x1026x1215	1026x1026x1215	1026x1026x1215	1026x1026x1215
Gross Weight (kg)	Indoor/Outdoor	155/192	160/212	160/212	155/202	170/222
Applicable Area	m ²	150-200	150-200	150-200	150-200	150-200
Loading Quantity (set)		20'/40'/40'HQ	7/14/22	7/14/22	7/14/22	7/14/22

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Cassette Air Conditioners

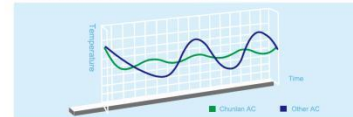
Intelligent control, energy-saving

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.



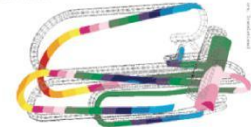
Intelligent temperature control

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.



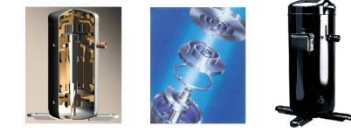
High position water drainage operation

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

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

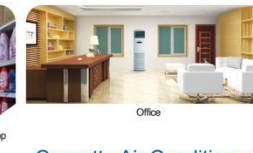


High-density air filters

Adopting high 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.



Cassette Air Conditioner



CC-12/Wa CC-12R/Wa
CC-18/Wa CC-18R/Wa
CC-24/Wa CC-24R/Wa

CC-36/Wa CC-36R/Wa
CC-48/Wa CC-48R/Wa
CC-60/Wa CC-60R/Wa

Performance		Model	CC-12(R)/Wa	CC-18(R)/Wa	CC-24(R)/Wa
Refrigerant			R410a	R410a	R410a
Cooling Capacity	Btu/h		12000	18000	24000
Heating Capacity	Btu/h		13500	20000	27500
Power supply	Ph, V~, Hz		1,220,50	1,220,50	1,220,50
Rated Cooling Power Input	W		1190	1760	2390
Rated Heating Power Input	W		1200	1800	2500
Rated Cooling Operating Current	A		5.49	8.08	11.06
Rated Heating Operating Current	A		5.63	8.27	11.59
Air Flow Volume(Indoor)	m³/h		620	900	1300
Noise Level	(dB(A))	Indoor	41	41	45
		Outdoor	53	55	60
Net Dimensions	W×D×H	Inside (mm)	615x615x263	615x615x263	835x835x250
		Outside (mm)	800x286x530	800x286x530	890x320x670
Net Weight	(kg)	Indoor/Outdoor	20.5/37	21/40	29/50
		Indoor (mm)	700x700x330	700x700x330	910x910x310
Packing Dimensions	W×D×H	Panel (mm)	700x700x330	700x700x330	1000x1000x1000
		Outdoor (mm)	920x400x620	920x400x620	1020x430x760
Gross Weight	(kg)	Indoor/Outdoor	26.5/40	27/43	34.5/54
Applicable Area		m²	13-21	21-35	28-47

Performance		Model	CC-36(R)/Wa	CC-48(R)/Wa	CC-60(R)/Wa
Refrigerant			R410a	R410a	R410a
Cooling Capacity	Btu/h		36000	48000	60000
Heating Capacity	Btu/h		40000	53000	63500
Power supply	Ph, V~, Hz		3,380,50	3,380,50	3,380,50
Rated Cooling Power Input	W		3770	4870	5710
Rated Heating Power Input	W		3500	5130	6000
Rated Cooling Operating Current	A		6.76	8.88	10.42
Rated Heating Operating Current	A		6.28	9.33	10.88
Air Flow Volume(Indoor)	m³/h		1500	1800	1800
Noise Level	(dB(A))	Indoor	48	50	50
		Outdoor	62	60	60
Net Dimensions	W×D×H	Inside (mm)	835x835x250	835x835x250	835x835x290
		Outside (mm)	903x354x857	940x368x1366	940x368x1366
Net Weight	(kg)	Indoor/Outdoor	29/71	31.5/101	31.5/102
		Indoor (mm)	910x910x310	910x910x350	910x910x350
Packing Dimensions	W×D×H	Panel (mm)	1000x1000x100	1000x1000x100	1000x1000x100
		Outdoor (mm)	1030x410x980	1080x460x1500	1080x460x1500
Gross Weight	(kg)	Indoor/Outdoor	34.5/81	37.5/112	37.5/113
Applicable Area		m²	42-70	56-93	64-107

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Duct Air Conditioners

High efficient compressor

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



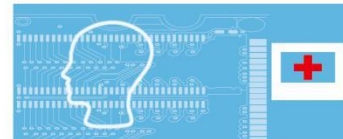
Various control method

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



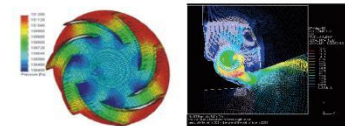
Automatic fault diagnosis

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.



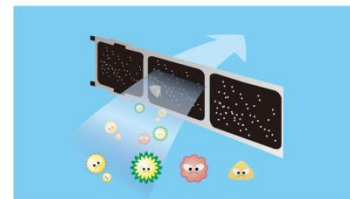
Finite element analysis technology

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



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.



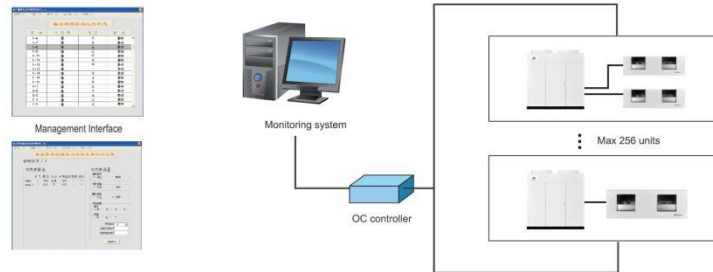
Healthy new fresh air technology

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. 232/485 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

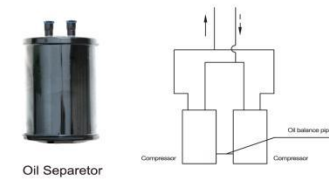
Chunlan module duct air conditioner units with flexible combination can achieve the combination of 256 units at most. It can realize arbitrary combination from 20 HP to 5120 HP according to the building load demand, providing the best flexible and economic environmental solution.



High efficiency oil balance technology

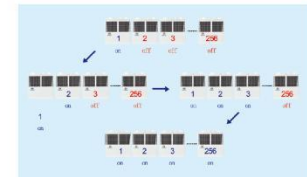
Oil return by vapor liquid separator
Accurate and unique oil return hole design, guaranteeing the compressor to realize stable and effective oil return. Besides, large capacity design can guarantee more cold media storage for the large system.

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.

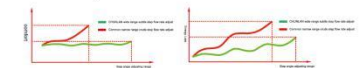


Vector control electronic expansion valve

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-18/Wa CDL-18R/Wa
CDL-24/Wa CDL-24R/Wa



CDM-36/Wa CDM-36R/Wa
CDM-48/Wa CDM-48R/Wa
CDH-60/Wa CDH-60R/Wa

Performance		Model	CDL-18(R)/Wa	CDL-24(R)/Wa
Refrigerant			R410a	R410a
Cooling Capacity	Btu/h		18000	24000
Heating Capacity	Btu/h		20000	27500
Power supply	Ph, V~, Hz		1,220,50	1,220,50
Rated Cooling Power Input	W		1730	2390
Rated Heating Power Input	W		1790	2350
Rated Cooling Operating Current	A		7.95	10.37
Rated Heating Operating Current	A		8.22	10.89
Air Flow Volume(indoor)	m³/h		1000	1400
Noise Level (dB(A))		Indoor	44	47
		Outdoor	55	60
		Inside (mm)	890x785x290	890x785x290
Net Dimensions	W×D×H	Outside (mm)	800x286x530	890x320x670
Net Weight (kg)		Indoor/Outdoor	34/40	36/50
		Indoor (mm)	1100x870x360	1100x870x36
Packing Dimensions	W×D×H	Outdoor (mm)	920x400x620	1020x430x760
		Indoor/Outdoor	40/43	42/54
Gross Weight (kg)				
Applicable Area	m²		21-35	28-47

Performance		Model	CDM-36(R)/Wa	CDM-48(R)/Wa	CDH-60(R)/Wa
Refrigerant			R410a	R410a	R410a
Cooling Capacity	Btu/h		36000	48000	60000
Heating Capacity	Btu/h		40000	53000	63500
Power supply	Ph, V~, Hz		3,380,50	3,380,50	3,380,50
Rated Cooling Power Input	W		3730	4870	5710
Rated Heating Power Input	W		3500	5130	6000
Rated Cooling Operating Current	A		6.69	8.88	10.42
Rated Heating Operating Current	A		6.28	9.33	10.88
Air Flow Volume(indoor)	m³/h		2000	2400	2800
Noise Level (dB(A))		Indoor	50	53	53
		Outdoor	62	60	60
Net Dimensions	W×D×H	Inside (mm)	890x785x290	1250x785x290	1250x785x290
		Outside (mm)	903x354x857	940x368x1366	940x368x1366
Net Weight (kg)		Indoor/Outdoor	36/71	52/101	52/102
		Indoor (mm)	1100x870x360	1460x870x360	1460x870x360
Packing Dimensions	W×D×H	Outdoor (mm)	1030x410x980	1080x460x1500	1080x460x1500
		Indoor/Outdoor	42/81	59/112	59/113
Gross Weight (kg)					
Applicable Area	m²		42-70	56-93	64-107

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CCF-18/Wa CCF-18R/Wa
CCF-24/Wa CCF-24R/Wa

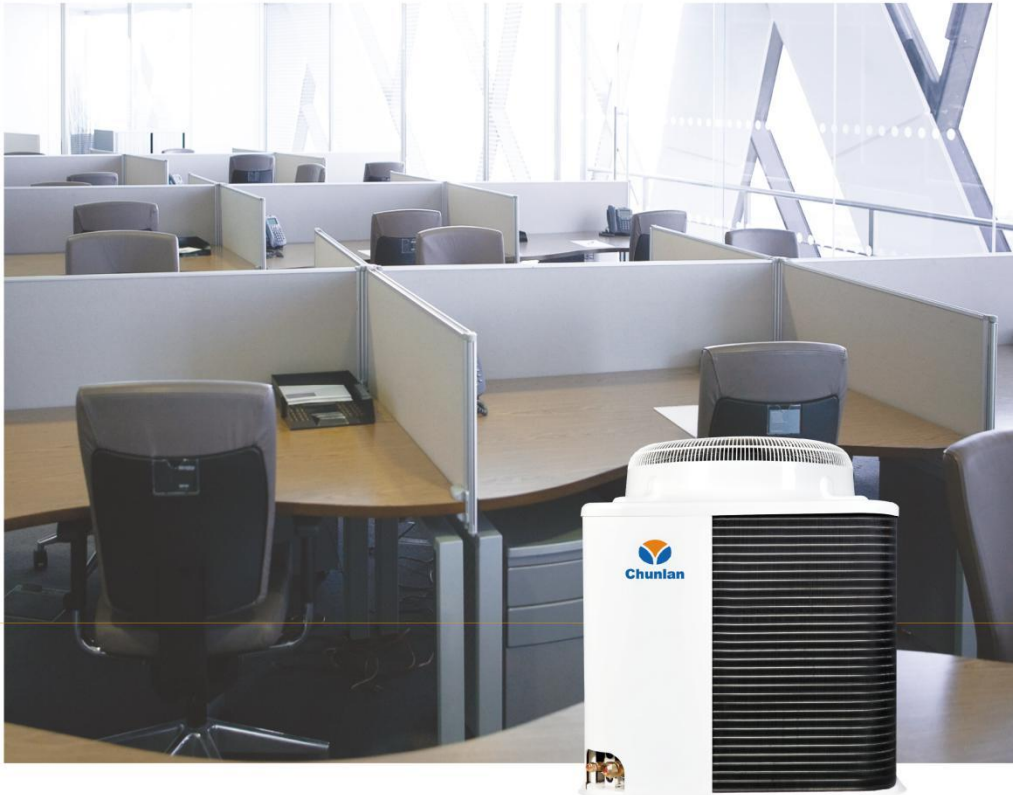


CCF-36/Wa CCF-36R/Wa
CCF-48/Wa CCF-48R/Wa
CCF-60/Wa CCF-60R/Wa

Performance		Model	CCF -18(R)/Wa	CCF-24(R)/Wa
Refrigerant			R410a	R410a
Cooling Capacity	Btu/h		18000	24000
Heating Capacity	Btu/h		20000	27500
Power supply	Ph, V~, Hz		1,220,50	1,220,50
Rated Cooling Power Input	W		1720	2350
Rated Heating Power Input	W		1770	2400
Rated Cooling Operating Current	A		7.90	10.09
Rated Heating Operating Current	A		8.13	11.59
Air Flow Volume(indoor)	m³/h		850	1200
Noise Level (dB(A))		Indoor	43	46
		Outdoor	55	60
		Inside (mm)	929x660x205	1280x660x205
Net Dimensions	W×D×H	Outside (mm)	800x286x530	890x320x670
Net Weight (kg)		Indoor/Outdoor	25/40	32/50
		Indoor (mm)	1010x720x290	1360x720x290
Packing Dimensions	W×D×H	Outdoor (mm)	920x400x620	1020x430x760
Gross Weight (kg)		Indoor/Outdoor	28/43	37/54
Applicable Area	m²		21-35	28-47

Performance		Model	CCF-36(R)/Wa	CCF-48(R)/Wa	CCF-60(R)/Wa
Refrigerant			R410a	R410a	R410a
Cooling Capacity	Btu/h		36000	48000	60000
Heating Capacity	Btu/h		40000	53000	63500
Power supply	Ph, V~, Hz		3,380,50	3,380,50	3,380,50
Rated Cooling Power Input	W		3770	4870	5710
Rated Heating Power Input	W		3500	5130	5970
Rated Cooling Operating Current	A		6.76	8.88	10.42
Rated Heating Operating Current	A		6.28	9.33	10.83
Air Flow Volume(indoor)	m³/h		1500	1800	1800
Noise Level (dB(A))		Indoor	50	51	51
		Outdoor	62	60	60
Net Dimensions	W×D×H	Inside (mm)	1280x660x205	1631x660x205	1631x660x205
		Outside (mm)	903x354x857	940x368x1366	940x368x1366
Net Weight (kg)		Indoor/Outdoor	33/71	44/101	44/102
		Indoor (mm)	1360x720x290	1710x720x290	1710x720x290
Packing Dimensions	W×D×H	Outdoor (mm)	1030x410x980	1080x460x1500	1080x460x1500
Gross Weight (kg)		Indoor/Outdoor	40/81	52/112	52/113
Applicable Area	m²		42-70	56-93	64-107

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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

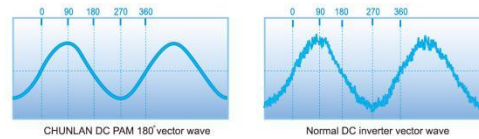
Several compressors share a set of condenser, when one or more stop work, it equals to the heat transfer area of the condenser increases exponentially

Condenser adjustment technology

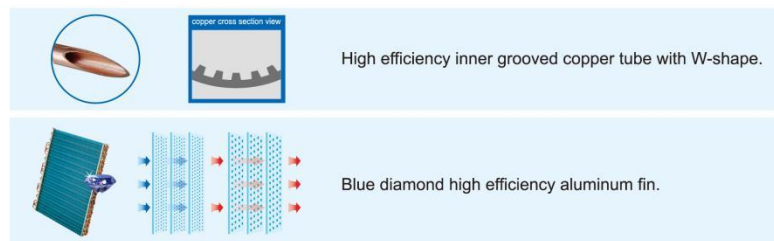
Since the DC invert compressor's energy efficiency is the highest under specific partial load, the condenser use electronic expansion valve control design, according to the unit load, adjusting the electronic expansion valve, enable the compressor to maintain efficient running state under partial load

HVAC industry's leading invert control technology

PAM180°DC invert control technology with own patent.

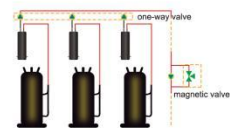


Chunlan high efficiency inner grooved copper tube/aluminum fin



Advanced refrigerant control technology

Advanced refrigerant processing technology.



Multi-electronic expansion valve adjustment technology.



Patent throttling components with high quality.

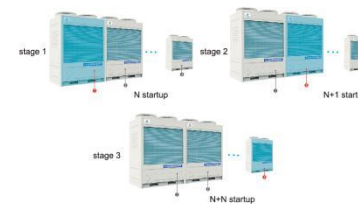


Rotation Technology

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.

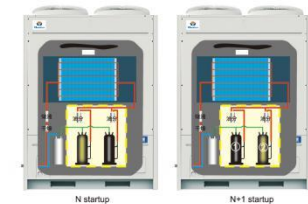
Rotation Technology of the outdoor unit module

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

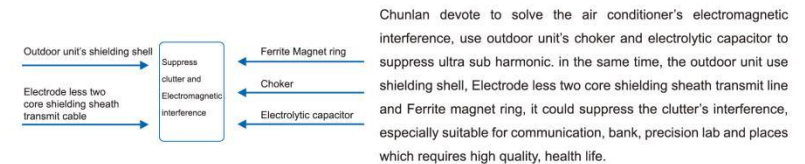


Rotation Technology of single module

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



Suppress Electromagnetic interference



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 CDMV/II 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.

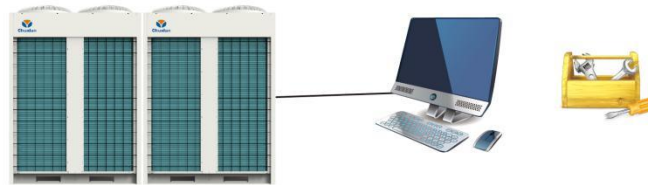


Comprehensive protection function



- 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

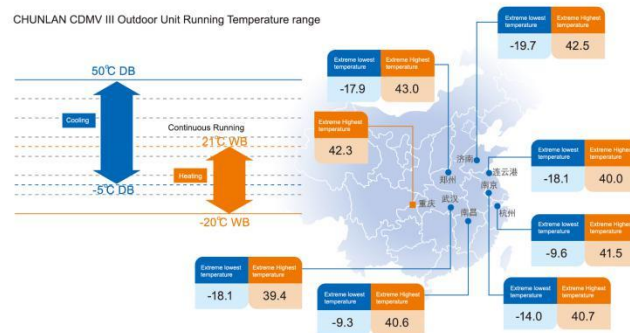
Fault memory function



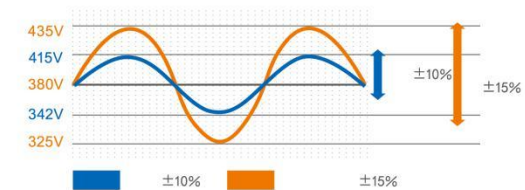
Wide running condition for the outdoor unit, flexibly suit for various temperature conditions

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

CHUNLAN CDMV III Outdoor Unit Running Temperature range



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

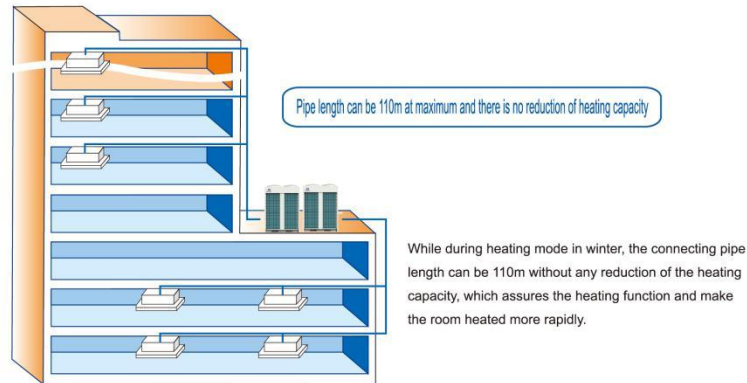


Modularized VRV system



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

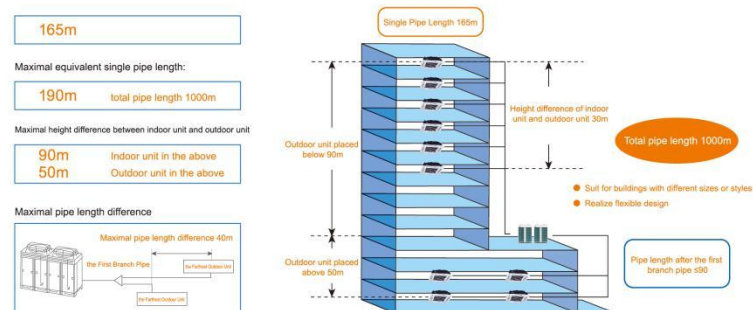


Application Area: school, home, restaurant, supermarket, hotel and other area.



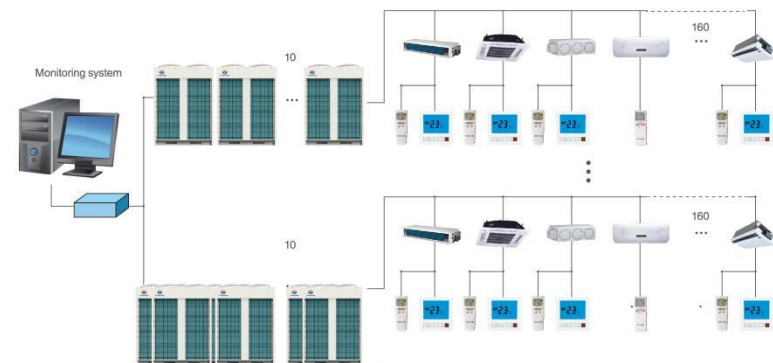
Ultra long refrigerant pipe, free design and construction

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.





outdoor unit

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Rated Power Input (kW)		Rated Operating Current (A)		Power Supply	Weight (kg)	Noise Level dB(A)	Refrigerant	Charge (kg)	Pipe Size Ø (mm)		Temp. Range (°C)		Dimension (mm)			Max. pipe length (m)	Max. pipe length difference (m)
			Cooling	Heating	Cooling	Heating						Gas	Liquid	Cooling	Heating	W	D	H		
CDMV-R224W/ABPWaS	22.4	25	5.1	5.5	8.6	9.3	380V 3N~50Hz	205	≤56	R410a	11	28.58	15.88	-5~50	-20~21	920	760	1690	See Page 19	
CDMV-R250W/ABPWaS	25	28	5.8	6.2	9.8	10.5		245	≤57		12					920	760	1690		
CDMV-R252W/ABPWaS	25.2	29	5.9	6.3	9.9	10.6		246	≤57		12.5					920	760	1690		
CDMV-R280W/ABPWaS	28	31.5	6.7	7.3	11.1	12.1		246	≤58		13					920	760	1690		
CDMV-R300W/ABPWaS	30	33	7.2	7.8	12.2	13.3		248	≤59		14					920	760	1690		
CDMV-R335W/ABPWaS	33.5	37	8.4	9.1	14.1	15.5		250	≤60		15					920	760	1690		
CDMV-R350W/ABPWaS	35	39	9.3	9.5	15.5	16.2		290	≤60		16					1220	760	1690		
CDMV-R400W/ABPWaS	40	44	12.3	11	20.9	18.7		293	≤60		17					1220	760	1690		
CDMV-R500W/ABPWaS	50	55	15.1	14.1	25.7	24		310	≤62		18					1220	760	1690		



the ultra-thin duct type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level dB(A)	Static Pressure (Pa)	Power Supply	Rated Power Input (W)		Pipe Size Ø (mm)		Water Pipe Size Ø (mm)	Dimension (mm)			Weight (kg)	Applicable Area (m²)
							Cooling	Heating	Gas	Liquid		W	D	H		
CDMV-R23F/BPWg	2.3	2.5	450	26-36	0	220V-50Hz	20	20	9.52	6.35	26.8	890	480	195	20	10~24
CDMV-Rd23F/BPWg	2.3	2.5/0.85	450	26-36	0	220V-50Hz	20	20	9.52	6.35	26.8	890	480	195	20	10~24
CDMV-R25F/BPWg	2.5	2.7	450	27-36	0	220V-50Hz	20	20	9.52	6.35	26.8	890	480	195	20	12~25
CDMV-Rd25F/BPWg	2.5	2.7/0.85	450	27-36	0	220V-50Hz	20	20	9.52	6.35	26.8	890	480	195	20	12~25
CDMV-R28F/BPWg	2.8	3	450	27-36	0	220V-50Hz	20	20	9.52	6.35	26.8	890	480	195	20	14~28
CDMV-Rd28F/BPWg	2.8	3.0/0.85	450	27-36	0	220V-50Hz	20	20	9.52	6.35	26.8	890	480	195	20	14~28
CDMV-R32F/BPWg	3.2	3.5	600	29-37	0	220V-50Hz	50	50	12.7	6.35	26.8	1020	480	195	22	16~32
CDMV-Rd32F/BPWg	3.2	3.5/1.2	600	29-37	0	220V-50Hz	50	50	12.7	6.35	26.8	1020	480	195	22	16~32
CDMV-R35F/BPWg	3.5	3.9	600	29-37	0	220V-50Hz	50	50	12.7	6.35	26.8	1020	480	195	22	17~35
CDMV-Rd35F/BPWg	3.5	3.9/1.2	600	29-37	0	220V-50Hz	50	50	12.7	6.35	26.8	1020	480	195	22	17~35
CDMV-R45F/BPWg	4.5	5	800	30-39	0	220V-50Hz	62	62	12.7	6.35	26.8	1240	480	195	23	22~45
CDMV-Rd45F/BPWg	4.5	5.0/1.5	800	30-39	0	220V-50Hz	62	62	12.7	6.35	26.8	1240	480	195	23	22~45
CDMV-R50F/BPWg	5	5.6	800	30-39	0	220V-50Hz	62	62	12.7	6.35	26.8	1240	480	195	24	25~50
CDMV-Rd50F/BPWg	5	5.6/1.5	800	30-39	0	220V-50Hz	62	62	12.7	6.35	26.8	1240	480	195	24	25~50
CDMV-R56F/BPWg	5.6	6.3	800	35-42	0	220V-50Hz	62	62	12.7	6.35	26.8	1240	480	195	26	28~55
CDMV-Rd56F/BPWg	5.6	6.3/1.5	800	35-42	0	220V-50Hz	62	62	12.7	6.35	26.8	1240	480	195	26	28~55
CDMV-R71F/BPWg	7.1	7.5	1500	35-42	0	220V-50Hz	116	116	15.88	9.52	26.8	1660	480	195	30	35~70
CDMV-Rd71F/BPWg	7.1	7.5/2300	1500	35-42	0	220V-50Hz	116	116	15.88	9.52	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)		Rated Operating Current (A)		Power Supply	Weight (kg)	Noise Level dB(A)	Refrigerant	Charge (kg)	Pipe Size Ø (mm)		Temp. Range (°C)		Dimension (mm)			Max. pipe length (m)	Max. pipe length difference (m)
			Cooling	Heating	Cooling	Heating						Gas	Liquid	Cooling	Heating	W	D	H		
CDMV-R100W/BPWg	10	11	3.0	2.9	16	15.5	1N/220V/50Hz	95	≤55	R410a	3.5	19.05	12.70	15~43	-15~21	950	360	859	70	30
CDMV-R120W/BPWg	12	13	3.8	3.6	20.2	19.2		130	≤55		4	19.05	12.70			920	350	1155	70	30
CDMV-R140W/BPWg	14	16	4.5	4.3	24.1	23.1		135	≤55		5	19.05	12.70			920	350	1155	70	30
CDMV-R170W/BPWg	17	18	5.1	4.9	27.3	26.4		140	≤56		7	19.05	19.05			920	350	1155	70	30



standard type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level dB(A)	Static Pressure (Pa)	Power Supply	Rated Power Input (W)		Pipe Size Ø (mm)		Water Pipe Size Ø (mm)	Dimension (mm)			Weight (kg)	Applicable Area (m²)
							Cooling	Heating	Gas	Liquid		W	D	H		
CDMV-R23F/BPWg	2.3	2.5	420	28-36	30	220V-50Hz	15	15	9.52	6.35	26.8	888	466	234	24	10~24
CDMV-Rd23F/BPWg	2.3	2.5/0.85	420	28-36	30	220V-50Hz	15	15	9.52	6.35	26.8	888	466	234	24	10~24
CDMV-R25F/BPWg	2.5	2.7	420	28-36	30	220V-50Hz	15	15	9.52	6.35	26.8	888	466	234	24	12~25
CDMV-Rd25F/BPWg	2.5	2.7/0.85	420	28-36	30	220V-50Hz	15	15	9.52	6.35	26.8	888	466	234	24	12~25
CDMV-R28F/BPWg	2.8	3	420	28-36	30	220V-50Hz	15	15	9.52	6.35	26.8	888	466	234	24	14~28
CDMV-Rd28F/BPWg	2.8	3.0/0.85	420	28-36	30	220V-50Hz	15	15	9.52	6.35	26.8	888	466	234	24	14~28
CDMV-R32F/BPWg	3.2	3.5	600	31-39	30	220V-50Hz	50	50	12.7	6.35	26.8	888	466	234	25.5	16~32
CDMV-Rd32F/BPWg	3.2	3.5/1.2	600	31-39	30	220V-50Hz	50	50	12.7	6.35	26.8	888	466	234	25.5	16~32
CDMV-R35F/BPWg	3.5	3.9	600	31-39	30	220V-50Hz	50	50	12.7	6.35	26.8	888	466	234	25.5	17~35
CDMV-Rd35F/BPWg	3.5	3.9/1.2	600	31-39	30	220V-50Hz	50	50	12.7	6.35	26.8	888	466	234	25.5	17~35
CDMV-R45F/BPWg	4.5	5	800	35-43	30	220V-50Hz	62	62	12.7	6.35	26.8	1088	466	234	28	22~45
CDMV-Rd45F/BPWg	4.5	5.0/1.5	800	35-43	30	220V-50Hz	62	62	12.7	6.35	26.8	1088	466	234	28	22~45
CDMV-R50F/BPWg	5	5.6	800	35-43	30	220V-50Hz	62	62	12.7	6.35	26.8	1088	466	234	28	25~50
CDMV-Rd50F/BPWg	5	5.6/1.5	800	35-43	30	220V-50Hz	62	62	12.7	6.35	26.8	1088	466	234	28	25~50
CDMV-R56F/BPWg	5.6	6.3	800	35-43	30	220V-50Hz	62	62	12.7	6.35	26.8	1088	466	234	28	28~55
CDMV-Rd56F/BPWg	5.6	6.3/1.5	800	35-43	30	220V-50Hz	62	62	12.7	6.35	26.8	1088	466	234	28	28~55
CDMV-R71F/BPWg	7.1	7.5	1500	38-46	30	220V-50Hz	116	116	15.88	9.52	22	1260	555	226	46	35~70
CDMV-Rd71F/BPWg	7.1	7.5/2300	1500	38-46	30	220V-50Hz	116	116	15.88	9.52	22	1260	555	226	46	35~70
CDMV-R80F/BPWg	8	8.8	1500	38-46	30	220V-50Hz	160	160	15.88	9.52	22	1260	555	226	46	40~80
CDMV-Rd80F/BPWg	8	8.8/2300	1500	38-46	30	220V-50Hz	160	160	15.88	9.52	22	1260	555	226	46	40~80
CDMV-R90F/BPWg	9	9.5	2000	40-48	30	220V-50Hz	200	200	19.05	9.52	22	1260	555	226	46	45~90
CDMV-Rd90F/BPWg	9	9.5/2300	2000	40-48	30	220V-50Hz	200	200	19.05	9.52	22	1260	555	226	46	45~90
CDMV-R100F/BPWg	10	10.5	2000	40-48	30	220V-50Hz	200	200	19.05	9.52	22	1880	555	226	50	50~100
CDMV-Rd100F/BPWg	10	10.5/2300	2000	40-48	30	220V-50Hz	200	200	19.05	9.52	22	1880	555	226	50	50~100

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high static pressure duct type

Model Performance	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level dB(A)	Static Pressure (Pa)	Power Supply	Rated Power Input (W)		Pipe Size Ø (mm)		Water Pipe Size Ø (mm)			Dimension (mm)			Weight (kg)	Applicable Area m²
							Cooling	Heating	Gas	Liquid	W	D	H	W	D	H		
CDMV-R120F3/BPWa	12	13	2200	42~50	80	220V~50Hz	450	450	19.05	9.52	22	934	618	400	42	60~120		
CDMV-R125F3/BPWa	12.5	14	2200	42~50	80	220V~50Hz	450	450	19.05	9.52	22	934	618	400	42	62~125		
CDMV-R170F3/BPWa	17	18	3100	44~52	80	220V~50Hz	800	800	22.23	12.7	22	1377	619	402	65	85~170		
CDMV-R280F3/BPWa	28	29	4500	48~56	80	220V~50Hz	1800	1800	28.58	15.88	22	1870	619	402	85	140~280		



one-way cassette type

Model Performance	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level dB(A)	Static Pressure (Pa)	Power Supply	Rated Power Input [W]		Pipe Size Ø (mm)		Water Pipe Size Ø (mm)		Dimension (mm)			Weight (kg)	Applicable Area (m²)
							Cooling	Heating	Gas	Liquid	W	D	H				
CDMV-Rd23Q1/BPWa	2.3	2.5/0.85	450	26~35	0	220V~50Hz	46	46	9.52	6.35	22	850	400	235	23	10~24	
CDMV-Rd25Q1/BPWa	2.5	2.7/0.85	450	26~35	0	220V~50Hz	46	46	9.52	6.35	22	850	400	235	23	12~25	
CDMV-Rd28Q1/BPWa	2.8	3.0/0.85	450	26~35	0	220V~50Hz	46	46	9.52	6.35	22	850	400	235	23	14~28	
CDMV-Rd32Q1/BPWa	3.2	3.5/1.2	600	28~36	0	220V~50Hz	50	50	12.73	6.35	22	1200	655	198	23	16~32	
CDMV-Rd35Q1/BPWa	3.5	3.9/1.2	600	28~36	0	220V~50Hz	50	50	12.7	6.35	22	1200	655	198	23	17~35	
CDMV-Rd45Q1/BPWa	4.5	5.0/1.5	800	35~41	0	220V~50Hz	70	70	12.7	6.35	22	1200	655	198	35	22~45	
CDMV-Rd50Q1/BPWa	5.0	5.6/1.5	800	35~41	0	220V~50Hz	70	70	12.7	6.35	22	1200	655	198	35	25~50	
CDMV-Rd56Q1/BPWa	5.6	6.3/1.5	800	35~41	0	220V~50Hz	70	70	12.7	6.35	22	1200	655	198	35	85~55	



wall split type

Model Performance	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level dB(A)	Power Supply	Rated Power Input (w)		Pipe Size Z2 (mm)		Water Pipe Size Ø (mm)		Dimension (mm)			Weight (kg)	Applicable Area m²
						Cooling	Heating	Gas	Liquid	W	D	H				
CDMV-R23G/BPWa	2.3	2.5	450	32~37	220V~50Hz	30	30	9.52	6.35	16	780	201	274	9	10~24	
CDMV-R25G/BPWa	2.5	2.7	500	33~38	220V~50Hz	32	32	9.52	6.35	16	780	201	274	9.3	12~25	
CDMV-R26G/BPWa	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/BPWa	3.2	3.5	560	36~41	220V~50Hz	40	40	12.7	6.35	16	780	201	274	9.3	16~32	
CDMV-R35G/BPWa	3.5	3.8	640	37~42	220V~50Hz	45	45	12.7	6.35	16	860	201	274	10.8	17~35	
CDMV-R45G/BPWa	4.5	5.0	800	40~45	220V~50Hz	50	50	12.7	6.35	16	860	201	274	10.8	22~45	
CDMV-R50G/BPWa	5.0	5.5	860	41~46	220V~50Hz	53	53	12.7	6.35	16	860	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)	Static Pressure (Pa)	Power Supply	Rated Power Input (w)		Pipe Size Ø (mm)		Water Pipe Size Ø (mm)		Dimension (mm)			Weight (kg)	Applicable Area m²
							Cooling	Heating	Gas	Liquid	W	D	H				
Performance																	
CDMV-R100F2/BPWa	10	11	1900	42~50	50	220V~50Hz	300	300	19.05	9.52	16	1150	750	285	52	50~100	
CDMV-R125F2/BPWa	12	13	1900	42~50	50	220V~50Hz	300	300	19.05	9.52	16	1150	750	285	52	57~125	



four-way cassette type

Model Performance	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level dB(A)	Power Supply	Rated Power Input (w)				Pipe Size 22 (mm)		Water Pipe Size		Dimension (mm)			Weight (kg)		Applicable Area m²
						Cooling	Heating	Gas	Liquid	Ø (mm)	W	D	H	Indoor unit	Panel				
CDMV-R50Q4/BPWa	5	5	800	40~45	220V-50Hz	90	90	12.7	6.35	22	950	950	305	30	8	25~50			
CDMV-R60Q4/BPWa	6	6	900	40~45	220V-50Hz	90	90	12.7	6.35	22	950	950	305	30	8	30~60			
CDMV-R65Q4/BPWa	6.5	7.1	1200	41~46	220V-50Hz	100	100	15.88	9.52	22	950	950	305	39	8	32~65			
CDMV-R70Q4/BPWa	7	7.8	1200	41~46	220V-50Hz	100	100	15.88	9.52	22	950	950	305	39	8	35~70			
CDMV-R75Q4/BPWa	7.5	8.3	1200	41~46	220V-50Hz	100	100	15.88	9.52	22	950	950	305	39	8	37~75			
CDMV-R90Q4/BPWa	9	10	1600	43~48	220V-50Hz	160	160	19.05	9.52	22	950	950	365	44	8	45~90			
CDMV-R95Q4/BPWa	9.5	10.5	1600	43~48	220V-50Hz	160	160	19.05	9.52	22	950	950	365	44	8	47~95			
CDMV-R100Q4/BPWa	10	11	1600	43~48	220V-50Hz	160	160	19.05	9.52	22	950	950	365	44	8	50~100			
CDMV-R120Q4/BPWa	12	13	1750	45~50	220V-50Hz	180	180	19.05	9.52	22	950	950	365	44	8	60~120			
CDMV-R125Q4/BPWa	12.5	14	1750	45~50	220V-50Hz	180	180	19.05	9.52	22	950	950	365	44	8	62~125			



floor standing type

Model Performance	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level dB(A)	Static Pressure (Pa)	Power Supply	Rated Power Input (W)		Pipe Size Ø (mm)		Water Pipe Size Ø (mm)		Dimension (mm)			Weight (kg)	Applicable Area m²
							Cooling	Heating	Gas	Liquid	W	D	H				
CDMV-Rd50/BPWa	5	5.6/1.6	800	35~43	0	220V~50Hz	62	62	12.7	6.35	26.8	500	295	1760	41	25~50	
CDMV-Rd56/BPWa	5.6	6.3/1.6	800	35~43	0	220V~50Hz	62	62	12.7	6.35	26.8	500	295	1760	41	28~55	
CDMV-Rd71L/BPWa	7.1	7.5/2200	1500	38~46	0	220V~50Hz	116	116	15.88	9.52	26.8	500	295	1760	43	35~70	
CDMV-Rd80L/BPWa	8	8.8/2200	1500	38~46	0	220V~50Hz	160	160	15.88	9.52	26.8	500	295	1760	43	40~80	
CDMV-Rd90L/BPWa	9	9.5/2200	2000	40~48	0	220V~50Hz	200	200	19.05	9.52	26.8	690	425	1915	46	45~90	
CDMV-Rd100L/BPWa	10	10.5/2200	2000	40~48	0	220V~50Hz	200	200	19.05	9.52	26.8	690	425	1915	48	50~100	
CDMV-Rd120L/BPWa	12	13/3000	2200	42~50	0	220V~50Hz	450	450	19.05	9.52	26.8	690	425	1915	50	60~120	

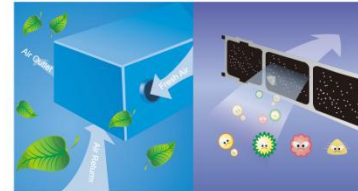
- The data listed in the form only for reference, and the specific parameter shall refer to product nameplates.
- The applicable area of air conditioner is related to room orientation, insulation level, height of the building, the size and amount of the doors and windows, so that the applicable area 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.



Modular Air Cooled (Heated) Water Chiller

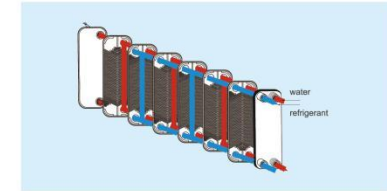
Healthy fresh air technology

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.



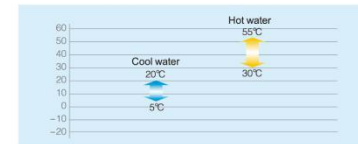
High reliability components

Adhering to Chunlan 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 Chunlan 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.



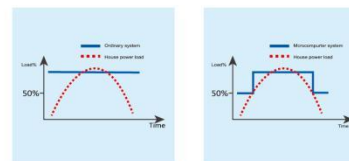
Wide climate adaptability

Chunlan 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 .



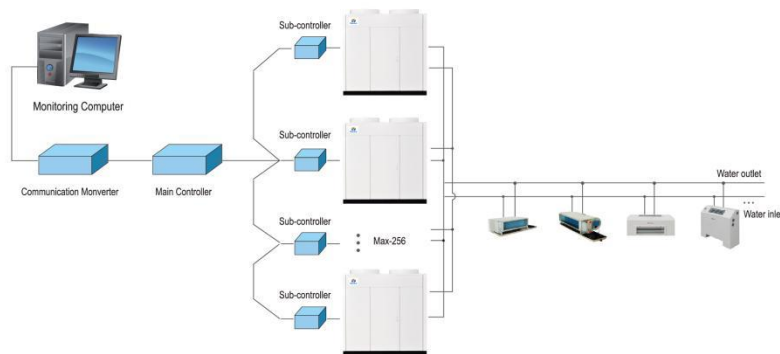
Comfortable temperature regulation

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.



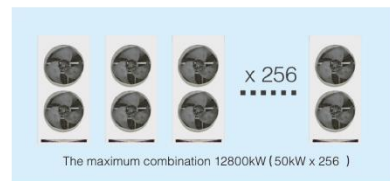
Advanced intelligent centralized control system

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, Chunlan 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.



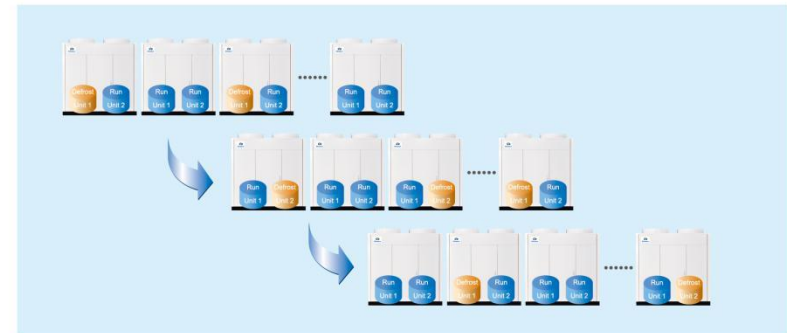
Any main control module design

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.



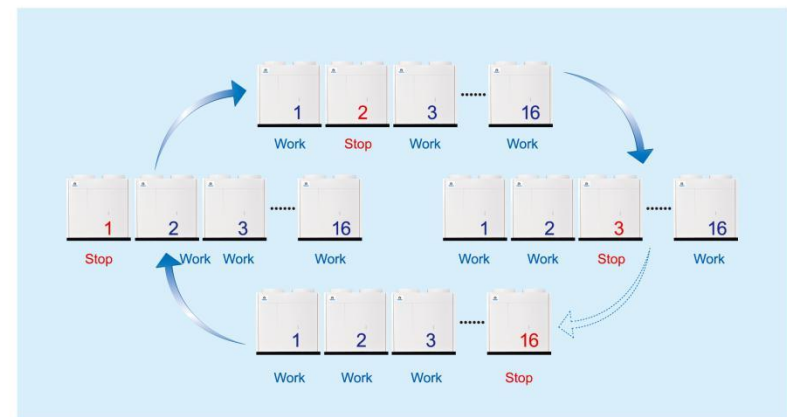
Alternate defrost technology

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/AS	CL-96R/-S
Refrigerant		R22	R22	R22
Cooling Capacity	Btu/h	42000	60000	96000
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	4580	5800	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	980X980X1061
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

- 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.
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Model	LSQWRF60M/B-E4					
Cooling Capacity	kw	60	120	180	240	300
	Kcal/h	51600	103200	154800	206400	258000
Heating Capacity	kw	61	122	183	244	305
	Kcal/h	52460	104920	157380	209840	262300
Power Input	kw	21	21x2	21x3	21x4	21x5
Power Supply	380V 3N~50Hz					
Compressor	Type	Hermetic Scroll Compressor				
Air Flow	m ³ /h	26000	52000	78000	104000	130000
Water Flow	m ³ /h	10.3	20.6	30.9	41.2	51.5
Water Resistance	KPa	50	52.5	55	57.5	60
Net Weight	kg	550	550x2	550x3	550x4	550x5
Refrigerant		R22				
Charging volume	kg	7.35x2	7.35x4	7.35x6	7.35x8	7.35x10
Pipe Diameter and type		DN50 Flange connection				
Dimension	WxDxHmm	1600X960X1903(Single Modular)				
Ambient temperature	°C	-7~43				

Model	LSQWRF65M-E4					
Cooling Capacity	kw	65	130	195	260	325
	Kcal/h	55900	111800	167700	223600	279500
Heating Capacity	kw	66	132	198	264	330
	Kcal/h	56760	113520	170280	227040	283800
Power Input	kw	22.7	22.7x2	22.7x3	22.7x4	22.7x5
Power Supply	380V 3N~50Hz					
Compressor	Type	Hermetic Scroll Compressor				
Air Flow	m ³ /h	26000	52000	78000	104000	130000
Water Flow	m ³ /h	11.2	22.4	33.6	44.8	56
Water Resistance	KPa	50	52.5	55	57.5	60
Net Weight	kg	580	580x2	580x3	580x4	580x5
Refrigerant		R22				
Charging volume	kg	7.5x2	7.5x4	7.5x6	7.5x8	7.5x10
Pipe Diameter and type		DN50 Flange connection				
Dimension	WxDxHmm	1600x960x1903(Single Modular)				
Ambient temperature	°C	-7~43				

Model	LSQWRF65M-E2					
Cooling Capacity	kw	65	130	195	260	325
	Kcal/h	55900	111800	167700	223600	279500
Heating Capacity	kw	65	130	195	260	325
	Kcal/h	55900	111800	167700	223600	279500
Power Input	kw	19.9	19.9x2	19.9x3	19.9x4	19.9x5
Power Supply	380V 3N~50Hz					
Compressor	Type	Hermetic Scroll Compressor				
Air Flow	m ³ /h	26000	52000	78000	104000	130000
Water Flow	m ³ /h	11.2	22.4	33.6	44.8	56
Water Resistance	KPa	50	52.5	55	57.5	60
Net Weight	kg	580	580x2	580x3	580x4	580x5
Refrigerant		R22				
Charging volume	kg	8.5x2	8.5x4	8.5x6	8.5x8	8.5x10
Pipe Diameter and type		DN50 Flange connection				
Dimension	WxDxHmm	1600x960x1903(Single Modular)				
Ambient temperature	°C	-7~43				

Model		LSQWRF100M-E4						
Cooling Capacity	kw	100	200	300	400	500	.....	100XN (N=256)
	Kcal/h	86000	172000	258000	344000	430000	.....	860000XN
Heating Capacity	kw	100	200	300	400	500	.....	100XN
	Kcal/h	86000	172000	258000	344000	430000	.....	860000XN
Power Input	kw	35	35x2	35x3	35x4	35x5	.....	35xN
Power Supply		380V 3N~50Hz						
Compressor	Type	Hermetic Scroll Compressor						
Air Flow	m³/h	52000	104000	156000	208000	260000	.....	52000XN
Water Flow	m³/h	17.2	34.4	51.6	68.8	86	.....	17.2XN
Water Resistance	KPa	70	72.5	75	77.5	80	.....	70+2.5 (N-1)
Net Weight	kg	1100	1100x2	1100x3	1100x4	1100x5	.....	1100xN
Refrigerant		R22						
Charging volume	kg	6.8x4	6.8x8	6.8x12	6.8x16	6.8x20	.....	6.8xN
Pipe Diameter and type		DN85/Flange connection						
Dimension	WxDxH:mm	1900x1600x1903(Single Modular)						
Ambient temperature	℃	-7~43						

Model		LSQWRF130M-E4						
Cooling Capacity	kW	130	260	390	520	650	*****	130XN (N<256)
	Kcal/h	111800	223600	335400	447200	559000	*****	111800XN
Heating Capacity	kW	130	260	390	520	650	*****	130XN
	Kcal/h	111800	223600	335400	447200	559000	*****	111800XN
Power Input	kW	46	46x2	46x3	46x4	46x5	*****	46xN
Power Supply		380V 3N~50Hz						
Compressor	Type	Hermetic Scroll Compressor						
Air Flow	m³/h	52000	104000	156000	208000	260000	*****	52000XN
Water Flow	m³/h	22.4	44.8	67.2	89.6	112	*****	22.4XN
Water Resistance	KPa	70	72.5	75	77.5	80	*****	70±2.5 (N-I)
Net Weight	kg	1200	1200x2	1200x3	1200x4	1200x5	*****	1200xN
Refrigerant		R22						
Charging volume	kg	7x4	7x8	7x12	7x16	7x20	*****	7x4N
Pipe Diameter and type		DN85Flange connection						
Dimension	WxDxH-mm	1900x1600x1903(Single Modular)						
Ambient temperature	℃	-7~43						

Model		LSQWRF130M-E2						
Cooling Capacity	kw	130	260	390	520	650	-----	130XN (N<256)
	Kcal/h	111800	223600	335400	447200	559000	-----	111800XN
Heating Capacity	kw	130	260	390	520	650	-----	130XN
	Kcal/h	111800	223600	335400	447200	559000	-----	111800XN
Power Input	kw	39.5	39.5x2	39.5x3	39.5x4	39.5x5	-----	39.5xN
Power Supply		380V 3N-50Hz						
Compressor	Type	Hermetic Scroll Compressor						
Air Flow	m³/h	52000	104000	156000	208000	260000	-----	52000XN
Water Flow	m³/h	22.4	44.8	67.2	89.6	112	-----	22.4XN
Water Resistance	KPa	70	72.5	75	77.5	80	-----	70+2.5 (N-I)
Net Weight	kg	1200	1200x2	1200x3	1200x4	1200x5	-----	1200xN
Refrigerant		R22						
Charging volume	kg	8.5x4	8.5x8	8.5x12	8.5x16	8.5x20	-----	8.5xN
Pipe Diameter and type		DN65 Flange connection						
Dimension	WxDxH-mm	1900x1600x1903 (Single Modular)						
Ambient temperature	℃	-7~43						

Model		LSQWRF160M/A-E4							
Cooling Capacity	kw	160	320	480	640	800	.....	160XN (N=256)
	Kcal/h	137600	275200	412800	550400	688000	.....	137600XN
Heating Capacity	kw	160	320	480	640	800	.....	160XN
	Kcal/h	137600	275200	412800	550400	688000	.....	137600XN
Power Input	kw	55	55x2	55x3	55x4	55x5	.....	55xN
Power Supply		380V 3N~50Hz							
Compressor	Type	Hermetic Scroll Compressor							
Air Flow	m ³ /h	72000	144000	216000	288000	360000	.....	72000XN
Water Flow	m ³ /h	27.5	55	82.5	110	137.5	.....	27.5XN
Water Resistance	KPa	120	122.5	125	127.5	130	.....	120~125 (N=1)
Net Weight	kg	1400	1400x2	1400x3	1400x4	1400x5	.....	1400xN
Refrigerant		R22							
Charging volume	kg	21x2	21x4	21x6	21x8	21x10	.....	21x2N
Pipe Diameter and type		DN80 Flange connection							
Dimension		2000x1900x2290 (Single Modular)							
Ambient temperature		-7~43							

Model		LSQWRF65MDW						
Cooling Capacity	kw	65	130	195	260	325	.....	65XN (N=256)
	Kcal/h	55900	111800	167700	223600	279500	.....	55900XN
Heating Capacity	kw	70	140	210	280	350	.....	70XN
	Kcal/h	60200	120400	180600	240800	301000	.....	60200XN
Power Input	kw	19.6	19.6x2	19.6x3	19.6x4	19.6x5	.....	19.6xN
Power Supply		380V 3N~50Hz						
Compressor	Type	Hermetic Scroll Compressor						
Air Flow	m³/h	26000	52000	78000	104000	130000	.....	26000XN
Water Flow	m³/h	11.2	22.4	33.6	44.8	56	.....	11.2XN
Water Resistance	KPa	50	52.5	55	57.5	60	.....	50+2.5 (N-1)
Net Weight	kg	580	580x2	580x3	580x4	580x5	.....	580xN
Refrigerant		R22						
Charging volume	kg	8.5x2	8.5x4	8.5x6	8.5x8	8.5x10	.....	8.5xN
Pipe Diameter and type		DN50 Flange connection						
	WxDxHmm	1600x960x1903 (Single Modular)						
Ambient temperature	°C	-20~43						

Model		LSQWRF130MDW						
Cooling Capacity	kw	130	260	390	520	650	.....	1300N (N≤256)
	Kcal/h	111800	223600	335400	447200	559000	.....	1118000X
Heating Capacity	kw	130	260	390	520	650	.....	1300N
	Kcal/h	111800	223600	335400	447200	559000	.....	1118000X
Power Input	kw	39.5	39.5x2	39.5x3	39.5x4	39.5x5	.....	39.5xN
Power Supply		380V 3N~50Hz						
Compressor	Type	Hermetic Scroll Compressor						
Air Flow	m ³ /h	52000	104000	156000	208000	260000	.....	52000XN
Water Flow	m ³ /h	22.4	44.8	67.2	89.6	112	.....	22.4XN
Water Resistance	KPa	70	72.5	75	77.5	80	.....	70+2.5 (N-1)
Net Weight	kg	1200	1200x2	1200x3	1200x4	1200x5	.....	1200xN
Refrigerant		R22						
Charging volume	kg	8.5x4	8.5x8	8.5x12	8.5x16	8.5x20	.....	8.5x4N
Pipe Diameter and type		DN65 Flange connection						
Dimension	WxDxHmm	1900x1600x1903 (Single Modular)						
Ambient temperature	℃	-20~43						

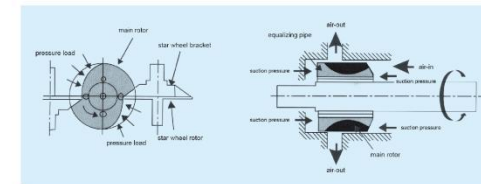
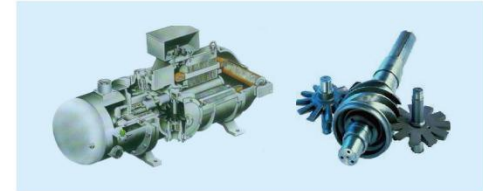


Water Cooled Screw Chiller

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

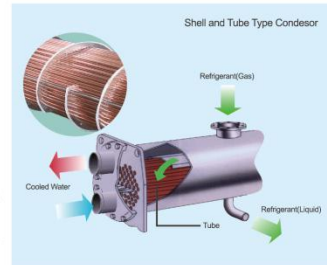
Optimized heat exchange system

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

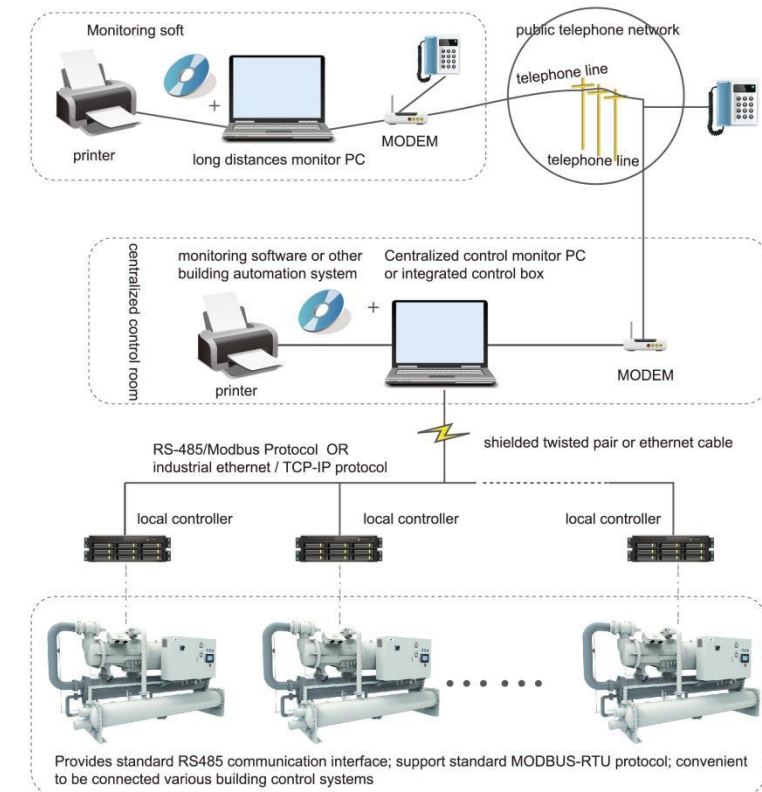
Lubricant oil and refrigerant has been charged in factory production. End user only need to connect the water pipe and electric wiring so as to put into use. This can greatly reduce the time for on spot installation and debugging.

Humanized operation interface

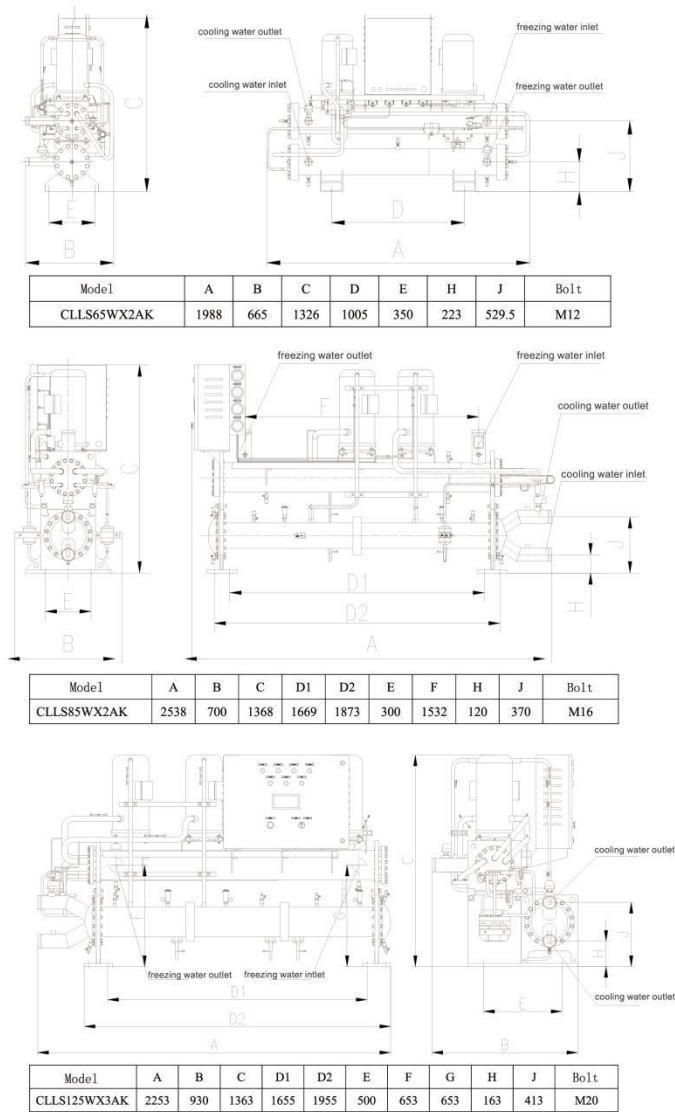


High-resolution LED backlight touch screen, 800*480, 35535 digital true color display
Strong anti-interference performance, industrial standard III
Touch operation, menu with varied contents, easy to understand
Multistage menu
Multistage login permission settings, easy to manage
Real-time display of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

Advanced intelligent centralized control system



Unit overall dimensions



Specifications

Model		CLLS65WX2AK	CLLS125WX2AK	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	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	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.

R134a series dry type single screw chiller

Model	CLLS300DL1AK	CLLS420DL1AK	CLLS560DL1AK	CLLS620DL1AK
Cooling Capacity	kW 300	420	560	620
Power Input	kW 65	90	118	129
Operating Current	A 117.0	162.0	212.4	232.2
Model	CLLS670DL1AK	CLLS760DL1AK	CLLS870DL1AK	CLLS960DL1AK
Cooling Capacity	kW 670	760	870	960
Power Input	kW 138	155	175	191
Operating Current	A 248.4	279.0	315.0	343.8
Model	CLLS850DL2AK	CLLS990DL2AK	CLLS1120DL2AK	CLLS1340DL2AK
Cooling Capacity	kW 850	990	1120	1340
Power Input	kW 173	198	218	257
Operating Current	A 311.4	356.4	392.4	462.6
Model	CLLS1520DL2AK	CLLS1740DL2AK	CLLS1910DL2AK	CLLS2000DL2AK
Cooling Capacity	kW 1520	1740	1910	2000
Power Input	kW 288	324	352	368
Operating Current	A 518.4	583.2	633.6	662.4

R134a series enclosed single screw water source heat pump chiller

Model	CLLS370RDL1AFD	CLLS450RDL1AFD	CLLS530RDL1AFD	CLLS810RDL1AFD
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	CLLS930RDL1AFD	CLLS1550RDL2AFD	CLLS1640RDL2AFD	CLLS1780RDL2AFD
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

R134a series dry type single screw water source heat pump chiller

Model	CLLS300RDL1AKD	CLLS380RDL1AKD	CLLS450RDL1AKD	CLLS530RDL1AKD
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	CLLS660RDL1AKD	CLLS720RDL1AKD	CLLS810RDL1AKD	CLLS930RDL1AKD
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	CLLS900RDL2AKD	CLLS1050RDL2AKD	CLLS1200RDL2AKD	CLLS1440RDL2AKD
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	CLLS1620RDL2AKD	CLLS1860RDL2AKD	CLLS2050RDL2AKD	CLLS2300RDL2AKD
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

R134a series fluided single screw chiller

Model	CLLS320DL1AKM	CLLS380DL1AKM	CLLS460DL1AKM	CLLS540DL1AKM
Cooling Capacity	kW 320	380	460	540
Power Input	kW 65.5	77	92.3	105
Operating Current	A 117.9	138.6	166.1	189.0
Model	CLLS610DL1AKM	CLLS730DL1AKM	CLLS830DL1AKM	CLLS950DL1AKM
Cooling Capacity	kW 610	730	830	950
Power Input	kW 117	136	153	173
Operating Current	A 210.6	244.8	275.4	311.4
Model	CLLS760DL2AKM	CLLS930DL2AKM	CLLS1080DL2AKM	CLLS1220DL2AKM
Cooling Capacity	kW 760	930	1080	1220
Power Input	kW 146	175	198	216
Operating Current	A 262.8	315.0	356.4	388.8
Model	CLLS1340DL2AKM	CLLS1470DL2AKM	CLLS1690DL2AKM	CLLS2000DL2AKM
Cooling Capacity	kW 1340	1470	1690	2000
Power Input	kW 234	252	284	333
Operating Current	A 421.2	453.6	511.2	599.4

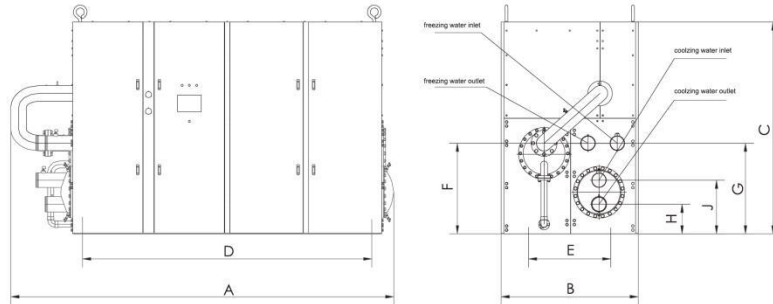
R134a series enclosed single screw chiller

Model	CLLS350DL1AF	CLLS420DL1AF	CLLS500DL1AF	CLLS760DL1AF
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	CLLS880DL1AF	CLLS1520DL2AF	CLLS1600DL2AF	CLLS1750DL2AF
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

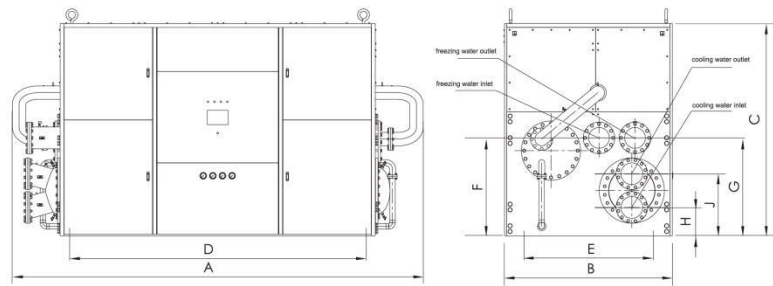
R134a series fluided single screw water source heat pump chiller

Model	CLLS320RDL1AKDM	CLLS370RDL1AKDM	CLLS500RDL1AKDM	CLLS580RDL1AKDM
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	CLLS650RDL1AKDM	CLLS780RDL1AKDM	CLLS890RDL1AKDM	CLLS1020RDL1AKDM
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	CLLS820RDL2AKDM	CLLS1160RDL2AKDM	CLLS1300RDL2AKDM	CLLS1420RDL2AKDM
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	CLLS1560RDL2AKDM	CLLS1780RDL2AKDM	CLLS2040RDL2AKDM	CLLS2300RDL2AKDM
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

Unit overall dimensions



Model CLLS	A	B	C	D	E	F	G	H	J	cooling water/ freezing 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/ freezing 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-△	Y-△	Y-△
Condenser	Type	closed shell and tube condenser		
	Quantity	1	1	1
	Pipe diameter	DN	DN125	DN150
	Water flow	m ³ /h	83.6	164
	Water resistance	KPa	58	78
Evaporator	Type	Dry type evaporator	Dry type evaporator	Dry type evaporator
	Quantity	1	1	1
	Pipe diameter	DN	DN125	DN150
	Water flow	m ³ /h	68.3	138
	Water resistance	KPa	73	85
Refrigerant	Type	R134a	R134a	R134a
	Charge	kg	95	205
Net weight	kg	3100	6000	10800
Running weight	kg	3250	6240	11280

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.

R134a series twin screw water-cooled chiller

Model	CLLS150SL1AK	CLLS180SL1AK	CLLS210SL1AK	CLLS280SL1AK
Cooling Capacity	kW 150	180	210	280
Power Input	kW 33	39.4	46	60.8
Operating Current	A 58.7	70.1	81.9	108.2
Model	CLLS320SL1AK	CLLS370SL1AK	CLLS460SL1AK	CLLS520SL1AK
Cooling Capacity	kW 320	370	460	520
Power Input	kW 69.3	80	99	111
Operating Current	A 123.4	142.4	176.2	199.8
Model	CLLS610SL1AK	CLLS660SL1AK	CLLS700SL1AK	CLLS750SL1AK
Cooling Capacity	kW 610	660	700	750
Power Input	kW 126	138	145	155
Operating Current	A 226.8	248.4	261	279
Model	CLLS810SL1AK	CLLS880SL1AK	CLLS800SL2AK	CLLS850SL2AK
Cooling Capacity	kW 810	880	800	850
Power Input	kW 166	179	164	174
Operating Current	A 298.8	322.2	298.5	316.7
Model	CLLS900SL2AK	CLLS980SL2AK	CLLS1100SL2AK	CLLS1120SL2AK
Cooling Capacity	kW 900	980	1100	1120
Power Input	kW 183	198	218	221
Operating Current	A 333.1	356.4	392.4	397.8
Model	CLLS1200SL2AK	CLLS1340SL2AK	CLLS1400SL2AK	CLLS1510SL2AK
Cooling Capacity	kW 1200	1340	1400	1510
Power Input	kW 235	260	270	288
Operating Current	A 427.7	473.2	491.4	524.2
Model	CLLS1630SL2AK	CLLS1760SL2AK	CLLS1870SL2AK	CLLS2000SL2AK
Cooling Capacity	kW 1630	1760	1870	2000
Power Input	kW 308	325	342	362
Operating Current	A 569.8	601.3	632.7	669.7

R134a series fluided twin screw water source heat pump chiller

Model	CLLS210RSL1AKDM	CLLS280RSL1AKDM	CLLS380RSL1AKDM	CLLS450RSL1AKDM
Cooling Capacity	kW 210	280	380	450
Heating Capacity	kW 231	308	418	495
Power Input	kW 34	45	60.5	71
Operating Current	A 61.2	81.0	108.9	127.8
Model	CLLS520RSL1AKDM	CLLS600RSL1AKDM	CLLS660RSL1AKDM	CLLS700RSL1AKDM
Cooling Capacity	kW 520	600	660	700
Heating Capacity	kW 572	660	726	770
Power Input	kW 81.5	93.4	102.4	108
Operating Current	A 146.7	168.1	184.3	194.4
Model	CLLS770RSL1AKDM	CLLS960RSL1AKDM	CLLS1120RSL1AKDM	CLLS1280RSL1AKDM
Cooling Capacity	kW 770	960	1120	1280
Heating Capacity	kW 847	1056	1232	1408
Power Input	kW 118	146	169	192
Operating Current	A 212.4	262.8	304.2	345.6
Model	CLLS760RSL2AKDM	CLLS830RSL2AKDM	CLLS910RSL2AKDM	CLLS1000RSL2AKDM
Cooling Capacity	kW 760	830	910	1000
Heating Capacity	kW 836	913	1001	1100
Power Input	kW 118	128	139	152
Operating Current	A 212.4	230.4	250.2	273.6
Model	CLLS1110RSL2AKDM	CLLS1200RSL2AKDM	CLLS1320RSL2AKDM	CLLS1380RSL2AKDM
Cooling Capacity	kW 1110	1200	1320	1380
Heating Capacity	kW 1221	1320	1452	1518
Power Input	kW 168	181	198	206
Operating Current	A 302.4	325.8	356.4	370.8
Model	CLLS1540RSL2AKDM	CLLS1710RSL2AKDM	CLLS1880RSL2AKDM	CLLS2000RSL2AKDM
Cooling Capacity	kW 1540	1710	1880	2000
Heating Capacity	kW 1694	1881	2068	2200
Power Input	kW 228	251	275	290
Operating Current	A 410.4	451.8	495	522

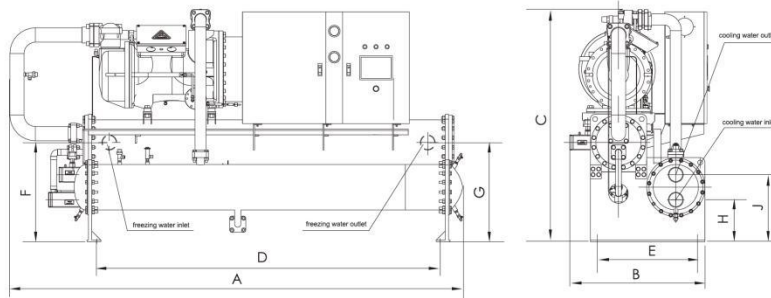
R134a series twin screw water source heat pump chiller

Model	CLLS180RSL1AKD	CLLS220RSL1AKD	CLLS270RSL1AKD	CLLS340RSL1AKD
Cooling Capacity	kW 180	220	270	340
Heating Capacity	kW 198	242	297	374
Power Input	kW 33	39.8	48	60
Operating Current	A 58.1	70.0	84.5	105.6
Model	CLLS370RSL1AKD	CLLS430RSL1AKD	CLLS530RSL1AKD	CLLS580RSL1AKD
Cooling Capacity	kW 370	430	530	580
Heating Capacity	kW 407	473	583	638
Power Input	kW 64.5	74	90.2	98
Operating Current	A 113.5	130.2	158.8	176.4
Model	CLLS620RSL1AKD	CLLS690RSL1AKD	CLLS760RSL1AKD	CLLS850RSL1AKD
Cooling Capacity	kW 620	690	760	850
Heating Capacity	kW 682	759	836	935
Power Input	kW 103.6	114	124.3	138
Operating Current	A 186.48	205.2	223.74	248.4
Model	CLLS870RSL2AKD	CLLS920RSL2AKD	CLLS1060RSL2AKD	CLLS1170RSL2AKD
Cooling Capacity	kW 870	920	1060	1170
Heating Capacity	kW 957	1012	1166	1287
Power Input	kW 142	149	171	187
Operating Current	A 258	271	311	340
Model	CLLS1230RSL2AKD	CLLS1360RSL2AKD	CLLS1430RSL2AKD	CLLS1540RSL2AKD
Cooling Capacity	kW 1230	1360	1430	1540
Heating Capacity	kW 1353	1496	1573	1694
Power Input	kW 195	215	225	241
Operating Current	A 355	391	405	434
Model	CLLS1700RSL2AKD	CLLS1850RSL2AKD	CLLS2000RSL2AKD	CLLS2300RSL2AKD
Cooling Capacity	kW 1700	1850	2000	2300
Heating Capacity	kW 1870	2035	2200	2530
Power Input	kW 264	285	305	349
Operating Current	A 475	513	549	628

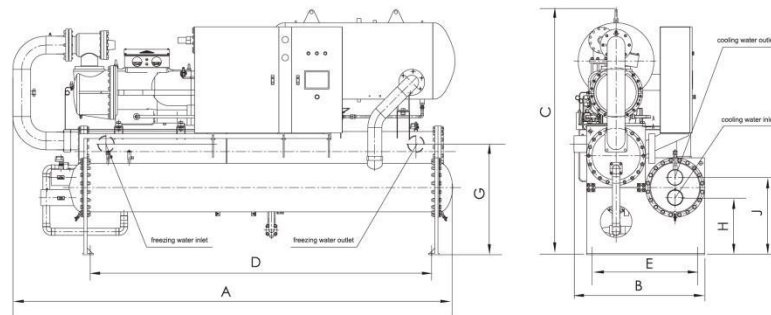
R134A series falling film water source heat pump chiller

Model	CLLS210RSL1AKDJ	CLLS280RSL1AKDJ	CLLS380RSL1AKDJ	CLLS450RSL1AKDJ
Cooling Capacity	kW 210	280	380	450
Heating Capacity	kW 231	308	418	495
Power Input	kW 34	45	60.5	71
Operating Current	A 61.2	81.0	108.9	127.8
Model	CLLS520RSL1AKDJ	CLLS600RSL1AKDJ	CLLS660RSL1AKDJ	CLLS700RSL1AKDJ
Cooling Capacity	kW 520	600	660	700
Heating Capacity	kW 572	660	726	770
Power Input	kW 81.5	93.4	102.4	108
Operating Current	A 146.7	168.1	184.3	194.4
Model	CLLS770RSL1AKDJ	CLLS960RSL1AKDJ	CLLS1120RSL1AKDJ	CLLS1280RSL1AKDJ
Cooling Capacity	kW 770	960	1120	1280
Heating Capacity	kW 847	1056	1232	1408
Power Input	kW 118	146	169	192
Operating Current	A 212.4	262.8	304.2	345.6
Model	CLLS760RSL2AKDJ	CLLS830RSL2AKDJ	CLLS910RSL2AKDJ	CLLS1000RSL2AKDJ
Cooling Capacity	kW 760	830	910	1000
Heating Capacity	kW 836	913	1001	1100
Power Input	kW 118	128	139	152
Operating Current	A 212.4	230.4	250.2	273.6
Model	CLLS1110RSL2AKDJ	CLLS1200RSL2AKDJ	CLLS1320RSL2AKDJ	CLLS1380RSL2AKDJ
Cooling Capacity	kW 1110	1200	1320	1380
Heating Capacity	kW 1221	1320	1452	1518
Power Input	kW 168	181	198	206
Operating Current	A 302.4	325.8	356.4	370.8
Model	CLLS1540RSL2AKDJ	CLLS1710RSL2AKDJ	CLLS1880RSL2AKDJ	CLLS2000RSL2AKDJ
Cooling Capacity	kW 1540	1710	1880	2000
Heating Capacity	kW 1694	1881	2068	2200
Power Input	kW 228	251	275	290
Operating Current	A 410.4	451.8	495	522

Unit overall dimensions



Model CLLS	A	B	C	D	E	F	G	H	J	cooling water/ freezing water connector
210SL1AK	3257	986	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
	Water flow	m ³ /h	44.5	83.6
	Water resistance	KPa	53	58
Evaporator	Type	Dry type evaporator	Dry type evaporator	Dry type evaporator
	Quantity	1	1	1
	Pipe diameter	DN	DN100	DN125
	Water flow	m ³ /h	36	68.3
	Water resistance	KPa	45	73
Refrigerant	Type	R134a	R134a	R134a
	Charge	kg	50	95
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.

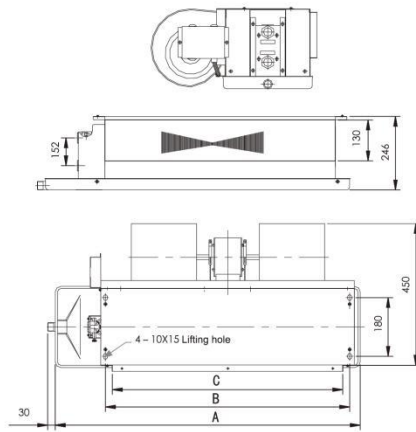
Standard cooling condition: Evaporator water outlet temperature 7, Condenser water inlet temperature 30

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

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

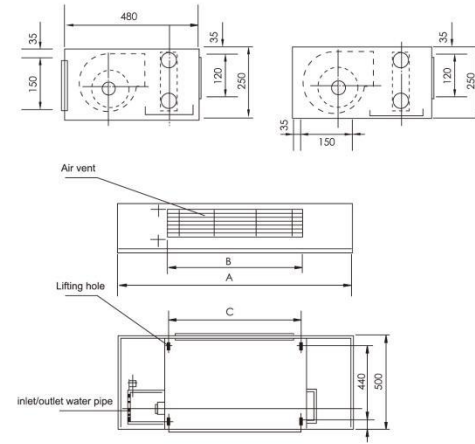
3. The particular parameters are subject to the nameplate of unit.

Horizontal concealed FP-WA



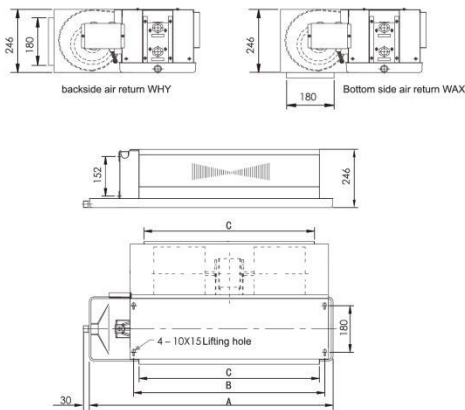
Model	A	B	C	Weight kg
FP-34	840	520	480	13
FP-51	940	620	580	16.5
FP-68	1040	720	680	18
FP-85	1140	820	780	19
FP-102	1240	920	880	20.5
FP-136	1540	1220	1180	24
FP-170	1740	1420	1380	26
FP-204	1840	1560	1520	28
FP-238	2040	1760	1720	29.5

Horizontal open-mounted FP-WM



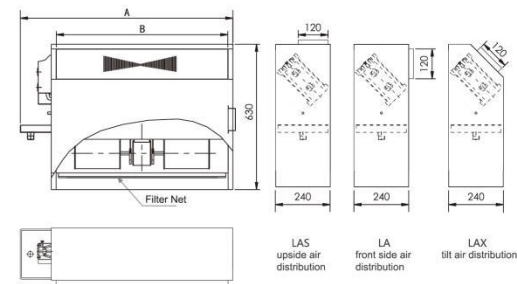
Model	A	B	C
FP-34	900	480	520
FP-51	1100	580	620
FP-68	1100	680	720
FP-85	1200	780	820
FP-102	1300	880	920
FP-136	1600	1180	1220
FP-170	1800	1380	1420
FP-204	1940	1520	1560
FP-238	2140	1720	1760

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



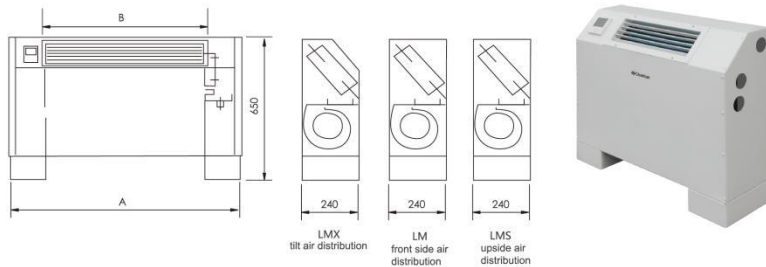
Model	A	B	C	Weight kg
FP-34	840	520	480	15
FP-51	940	620	580	18
FP-68	1040	720	680	21.5
FP-85	1140	820	780	22.5
FP-102	1240	920	880	24.5
FP-136	1540	1220	1180	30
FP-170	1740	1420	1380	32.5
FP-204	1840	1560	1520	34.5
FP-238	2040	1760	1720	37.5

Vertical concealed FP-LA



Model	FP-34	FP-51	FP-68	FP-85	FP-102	FP-136	FP-170	FP-204	FP-238
A	650	750	850	950	1050	1350	1550	1690	1890
B	480	580	680	780	880	1180	1380	1520	1720

Vertical open mounted



	FP-34	FP-51	FP-68	FP-85	FP-102	FP-136	FP-170	FP-204	FP-238
A	800	900	1000	1100	1200	1500	1700	1850	2050
B	480	580	680	780	880	1180	1380	1520	1720
Weight kg	18.5	22.5	24	28	30	45	50	55	55

Optional accessory

Mechanical controller



Capacitor type touch screen electronic controller



LCD electronic controller



Mechanical controller

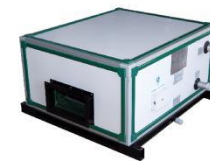
Air vent, Service Point



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		255	383	510	638	765	1020	1275	1530	1785
	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	3280	4120	4850	6560	8190	9730	11580
	L		1310	2010	2650	3320	3900	5300	6610	7860	9350
Heating Capacity W	H		2700	4050	5400	6750	8100	10800	13500	16200	18900
	M		2350	3520	4530	5640	6850	9260	11740	14140	16360
	L		1620	2470	3130	4170	4740	6500	8180	9710	11290
Noise dB (A)	low static pressure 12Pa		≤35	≤36	≤37	≤41	≤43	≤44	≤46	≤47	≤48
	high static pressure 30Pa		≤37	≤38	≤41	≤44	≤45	≤46	≤48	≤49	≤50
	high static pressure 50Pa		≤40	≤41	≤44	≤45	≤46	≤48	≤49	≤50	≤52
Cold 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		1.6MPa								
	3 row water supply quantity		324	482	655	814	936	1278	1602	1915	2178
water resistance		20	20	30	30	30	40	40	40	40	40
low static pressure unit 12Pa	W		37	52	62	76	96	134	152	189	228
	30Pa		44	59	72	87	108	156	174	212	253
	50Pa		49	66	84	100	118	174	210	250	300
fan coil units quantity		1	2	2	2	2	3	4	4	4	4
Pipe size	inlet water pipe		3/4" inner grooved								
	outlet water pipe		3/4" external grooved								

Air Handling Unit



Air Valve

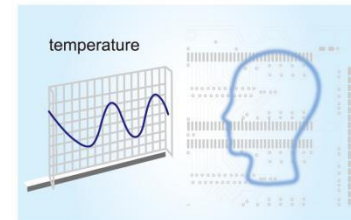




Enclosure Air Conditioners

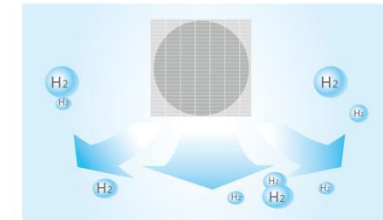
Intelligent Temperature Control

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.



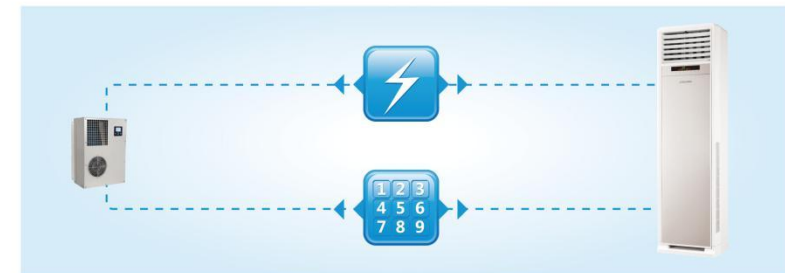
Automatic discharge the hydrogen

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. Specifically 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.



DKC03/B
DKC03W

DKC06/B
DKC06W

DKC10/W
DKC20/F

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	2000
Power supply		1,220,50	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	950
Rated operating current	A	1	1	1.4	1.4	2.3	4.3
Net weight	kg	15	15	24	24	42	45
Packing weight	kg	17	17	26	26	45	48
Noise	db(A)	55	55	55	55	55	55
Net Dimension (DxWxH)	mm	398×200×493	398×200×493	455×188×648	455×188×648	474×202×1150	474×202×1150
Packing Dimension (DxWxH)	mm	477×321×550	477×321×550	527×321×705	527×321×705	510×267×1240	510×267×1240
Loading Quantity (set)	20'40'40HQ	336/700/700	336/700/700	230/465/465	230/465/465	88/176/352	88/176/352

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

- 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.
- Chunlan 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.



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.



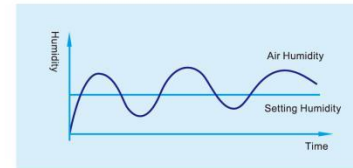
Low temperature dehumidifying

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.



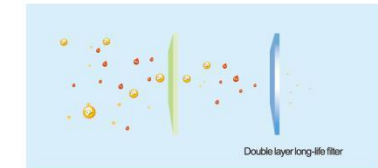
Intelligent humidity regulation

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.



Double layer long-life filter

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



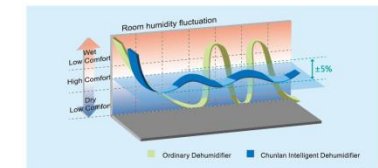
Manual/Auto operating

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



Accurate dehumidifying performance

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



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.

High reliability

Upholding the Chunlian 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	m3/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)	516x398x946	600x400x1800	516x398x946	600x400x1800
Packing Dimensions	(D×W×H mm)	596x455x1000	690x495x1950	596x455x1000	690x495x1950
Applicable Area	m²	20-40	50-80	20-40	50-80
Loading Quantity(set)	20/40/40H	90/198/198	36/74/74	90/198/198	36/74/74
Normal Conditions		Dry-bulb temperature 27.0℃, wet-bulb temperature 21.2℃; max load condition: dry-bulb temperature 32.0℃, wet-bulb temperature 23.0℃; low-temperature condition: dry-bulb temperature 5.0℃, wet-bulb temperature 2.1℃		Dry-bulb temperature 27.0℃, wet-bulb temperature 21.2℃; max load condition: dry-bulb temperature 32.0℃, wet-bulb temperature 23.0℃; low-temperature condition: dry-bulb temperature 18.0℃, wet-bulb temperature 13.5℃	

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