



# CHUNLAN

AIR CONDITIONERS  
- 2018 -



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Edition: 2018 0401

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



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## Chunlian Introduction

As one of the largest enterprises in China, Chunlian (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 Chunlian educational/research institutions, Chunlian Academy, Chunlian Post-doctoral Work Station and state-level technology development center is the important base for the world frontier science and technology research.

Chunlian 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, Chunlian Group undertakes 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; Chunlian storage power station and solar energy power station system are successfully applied in Shanghai World Expo etc; The leading edge science and technology products -- Chunlian 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, Chunlian 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. Chunlian is proudly moving forward to its ultimate strategic goal of becoming a world-famous diversified corporation.



## Seven Industries



## SINCE 1973



### Chunlian Air Conditioner Industry

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

Chunlian 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 Chunlian air conditioner lead all the way in quiet design, reliability and comfortableness etc.

For the past 50 years, the total production of Chunlian air conditioner is more than 80,000,000 sets. Chunlian, the most-admired company in China, is honored as "King of Chinese Air Conditioner", "Pioneer of Chinese Air Conditioner". World-famous Chunlian is the common choice for more than 100 countries and millions of people in the world.

## 80,000,000

### Brief history of Chunlian Air Conditioner

- 1973 The first set of air conditioner was produced.
- 1990 Chunlian air conditioner became the leader in Chinese air conditioner industry.
- 1994 Chunlian air conditioner got the approval of ISO 9001 from American Standardization Association.
- 1995 Chunlian was awarded as "King of Air Conditioner" by Chinese government.
- 1997 Chunlian led Chinese air conditioner industry to enter the eighth year.
- 2000 Chunlian air conditioner created the highest reliability record of No Malfunction Identified Per 60,000 Hours.
- 2002 The noise level of Chunlian air conditioner was the best one during national inspection.
- 2002 Chunlian was authorized as CE inspection lab in China.
- 2008 The total production of Chunlian air conditioner breaks through 80,000,000.
- 2009 Chunlian produced 4P Green DC Inverter Air Conditioner.
- 2010 Chunlian was awarded "2010 Inverter Air Conditioning Technology Leadership".

### CERTIFICATES



**Advanced Technology**



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.: 201020094922.4)




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.

**Noise 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 includes 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 all units 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 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

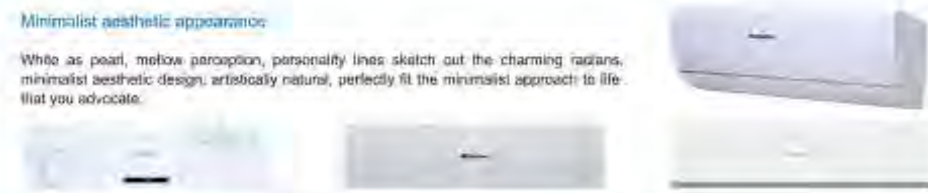


Chunlan air conditioner heat exchange system with the blue multi-stage evaporator, has unique hydrophilic membrane coating, which can enhance the heat exchange surface area and make highly heat exchange efficient.

**Pretty Appearance**

#### Minimalist aesthetic appearance

White as pearl, mellow perception, personality lines sketch out the charming radiance, 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



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.

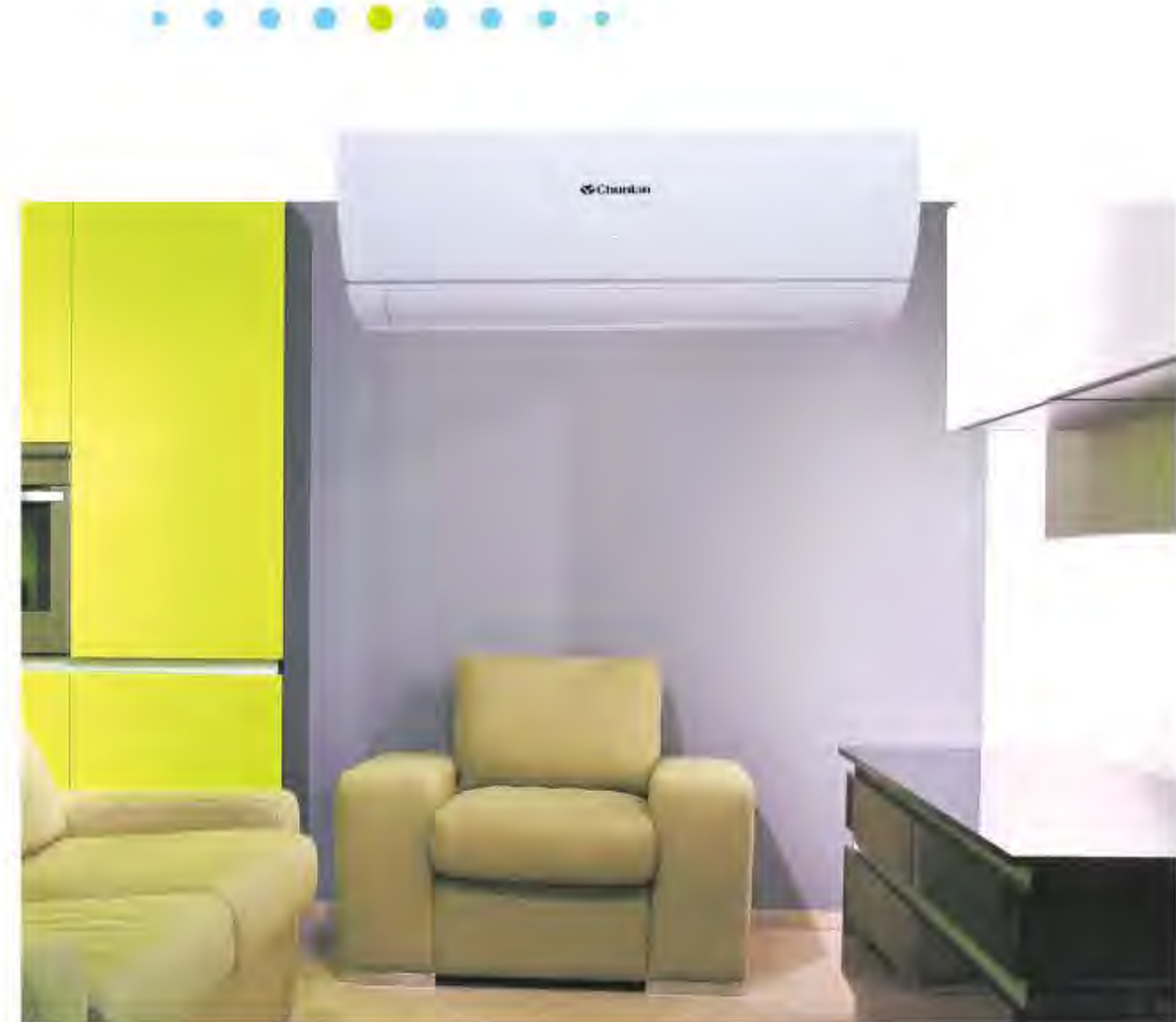
#### Anti Cold Wind Design



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 2018

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.



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



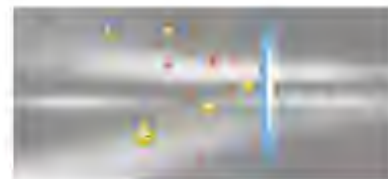
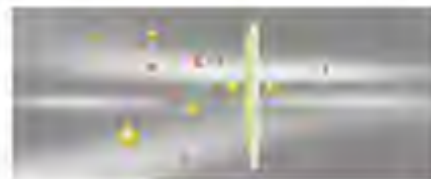
The rate of the destruction of the ozone layer tends to be zero, which makes a great contribution to the earth.



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.



100% 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. Chuanan 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 select the position of the rotor of the compressor and make the compressor operating current and the sine angle 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	WW	8.1	8.1	8.1	8.1
Cooling Energy Rate		A++	A++	A++	A++
SCOP	WW	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	48/42/38/32
	Outdoor	52	52	55	58
Net Dimensions (WxDxH)					
	Inside(mm)	786x300x213	866x300x213	1076x338x228	1076x338x228
	Outside (mm)	760x537x258	760x537x258	780x633x259	823x646x275
Net Weight (kg)					
	Indoor/Outdoor	9.5/30	10.5/32	14/39	15/50
Packing Dimensions (WxDxH)					
	Indoor (mm)	856x395x296	936x395x296	1178x412x300	1178x412x300
	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	30~60
Loading Quantity (set)		20/140/140HQ	100/210/235	78/162/184	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	WW	8.1	8.1	8.1	8.1
Cooling Energy Rate		A++	A++	A++	A++
SCOP	WW	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	48/42/38/32
	Outdoor	52	52	55	58
Net Dimensions (WxDxH)					
	Inside(mm)	786x180x260	840x180x260	1062x220x327	1062x220x327
	Outside (mm)	760x537x258	760x537x258	760x665x259	823x646x275
Net Weight (kg)					
	Indoor/Outdoor	9.5/30	10.5/32	14/39	15/50
Packing Dimensions (WxDxH)					
	Indoor (mm)	875x285x340	955x285x340	1176x300x412	1176x300x412
	Outdoor (mm)	896x686x352	896x686x352	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	30~60
Loading Quantity (set)		20/140/140HQ	108/230/235	78/162/184	66/142/158

## Wall Split Series

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



### 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 intelligence.



### Features



Specialization [DC Inverter]

### 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 (works on ultra-low frequency), the lowest power consumption is less than 0.1W, which helps the system running with constant temperature. The energy saving performance reached a new level.

### Seven peculiar compressor technology

1. Demagnetized control protect the compressor.
2. PFC low frequency control makes running current waveform of compressor close to sine wave and steady current through torque compensation to save more energy.
3. Weak magnetic control increases the frequency of the compressor, enhances the anti-stagnation and heating efficiency of air conditioner and make the compressor run more smoothly.
4. Through maximum torque current control, the air conditioner efficiency and anti-cold speed.
5. Torque control speeds compressor rotation and heat.
6. Compressor heating program makes the compressor heat more quickly and prevents liquid return accident in startup.
7. The dual zone in compressing software control air well as the precise positioning at the position of the rotor makes the compressor lubrication speed waveform to keep the velocity of rotor and a clean ammonia.



Chunlian distributed the new generation ultra-pulse air conditioner, which upgraded original patent technology to the second generation and promoted the standard of the world in the extreme.

### High Efficient Compressor



Chunlian air conditioner adopts high efficient compressor, and creates an extra ordinary standard of failure-free operation for average 80000 hours.

### High quality internal thread copper tube



Chunlian always selects high quality pipe, adopts 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



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

Performance	Model	CS-09R/BXBPWa	CS-12R/BXBPWa	CS-18R/BXBPWa	CS-24R/BXBPWa
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	WW	6.1	6.1	6.1	6.1
Cooling Energy Rate		A++	A++	A++	A++
SCOP	WW	4.0	4.0	4.0	4.0
Heating Energy Rate		A+	A+	A+	A+
Air Flow Volume (Indoor)	m³/h	520	660	900	1200
Noise Level (dB(A))	Indoor/Outdoor	42/37/32/27	42/37/32/27	46/39/35/30	48/42/38/32
Net Dimensions (WxDxH)	Indoor (mm)	786x300x213	866x300x213	1076x338x228	1076x338x228
	Outdoor (mm)	780x537x259	760x537x259	760x663x259	823x846x275
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	886x712x352	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	30-60
Loading Quantity (Set)	20'40'40'HQ	105/220/242	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 construction, insulation level, height of the building, the air flow and pressure of the system and window, so the applicable area is just for reference.
- Chunlian reserves the right to change the construction, specifications, and parameters. There is no specific notice if there appears any adjustment, please refer to product specifications and product manuals.

Wall Split Series

R410A ON/OFF High Efficiency



AZ3



AZ3



BX



VEA



Performance		Model	CS-09R(AZ)W-E3	CS-12R(AZ)W-E3	CS-18R(AZ)W-E3	CS-24R(AZ)W-E3
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9000	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	19000	24900
Power supply	Ph. V~ Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1080	1650	2300
Rated Heating Power Input	W		890	980	1700	2400
Rated Cooling Operating Current	A		3.6	4.9	7.6	10.7
Rated Heating Operating Current	A		3.7	4.5	7.9	11.1
Air Flow (Volume/indoor)	m <sup>3</sup> /h		470	520	895	1250
Noise Level	(dB(A))	Indoor/Outdoor	20/30/32/35	30/33/36/40	42/45/48/51	40/43/46
Net Dimensions	WxDxH	Indoor (mm)	820x190x274	820x190x274	900x190x283	1150x242x320
		Outdoor (mm)	850x250x506	790x250x537	790x250x563	820x275x646
Net Weight	(kg)	Indoor/Outdoor	5.1/25.5	5.1/31	13.6/48	15/61
		Indoor/Outdoor	8.1/25.5	8.1/31	13.6/48	15/61
Packing Dimensions	WxDxH	Indoor (mm)	860x270x280	860x270x280	1020x280x380	1310x347x440
		Outdoor (mm)	790x370x585	890x352x585	890x352x712	980x400x730
Case Weight	(kg)	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	m <sup>2</sup>		12-17	16-23	20-35	35-50
Loading Quantity	(unit)	30/40/40/30	115/210/220	105/210/250	85/175/204	60/120/140

Performance		Model	CS-09R(BX)W-E3	CS-12R(BX)W-E3	CS-18R(BX)W-E3	CS-24R(BX)W-E3
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9000	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	19000	24900
Power supply	Ph. V~ Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1080	1650	2300
Rated Heating Power Input	W		890	980	1700	2400
Rated Cooling Operating Current	A		3.6	4.9	7.6	10.7
Rated Heating Operating Current	A		3.7	4.5	7.9	11.1
Air Flow (Volume/indoor)	m <sup>3</sup> /h		470	520	895	1250
Noise Level	(dB(A))	Indoor/Outdoor	20/30/32/35	30/33/36/40	42/45/48/51	40/43/45
Net Dimensions	WxDxH	Indoor (mm)	790x200x213	890x200x213	1076x225x238	1076x225x335
		Outdoor (mm)	850x250x506	790x250x537	790x250x563	820x275x646
Net Weight	(kg)	Indoor/Outdoor	5.1/25.5	5.1/31	13.6/48	15/61
		Indoor/Outdoor	8.1/25.5	8.1/31	13.6/48	15/61
Packing Dimensions	WxDxH	Indoor (mm)	850x295x295	830x295x295	1176x310x412	1176x310x412
		Outdoor (mm)	790x370x585	890x352x585	890x352x712	980x400x730
Case Weight	(kg)	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	m <sup>2</sup>		12-17	16-23	20-35	35-50
Loading Quantity	(unit)	30/40/40/30	110/210/210	100/210/230	75/162/184	60/110/150

Performance		Model	CS-09R(VEA)W-E3	CS-12R(VEA)W-E3	CS-18R(VEA)W-E3	CS-24R(VEA)W-E3
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9000	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	19000	24900
Power supply	Ph. V~ Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1080	1650	2300
Rated Heating Power Input	W		890	980	1700	2400
Rated Cooling Operating Current	A		3.6	4.9	7.6	10.7
Rated Heating Operating Current	A		3.7	4.5	7.9	11.1
Air Flow (Volume/indoor)	m <sup>3</sup> /h		470	520	895	1250
Noise Level	(dB(A))	Indoor/Outdoor	20/30/32/35	30/33/36/40	42/45/48/51	40/43/46
Net Dimensions	WxDxH	Indoor (mm)	700x180x250	840x180x250	1050x220x327	1050x220x517
		Outdoor (mm)	850x250x506	790x250x537	790x250x563	820x275x646
Net Weight	(kg)	Indoor/Outdoor	5.1/25.5	5.1/31	13.6/48	15/61
		Indoor/Outdoor	8.1/25.5	8.1/31	13.6/48	15/61
Packing Dimensions	WxDxH	Indoor (mm)	875x355x340	950x265x340	1170x300x412	1170x300x412
		Outdoor (mm)	790x370x585	890x352x585	890x352x712	980x400x730
Case Weight	(kg)	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	m <sup>2</sup>		12-17	16-23	20-35	35-50
Loading Quantity	(unit)	30/40/40/30	120/210/210	105/210/250	75/162/184	60/110/150



## Wall Split Series

### R410A DN/OFF Super High Efficiency



**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



Remote Super Silence Technology



Wide Area Design



Strong Microfilter Defrosting



Heating anti-frost design



Independent Variable Valve



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Double Display Button



Hidden Control



Super High Efficiency

**High Efficient Compressor**

Chuanan air conditioner adopts high efficient compressor, and creates an extra ordinary standard of failure-free operation for average 50000 hours.

**High quality internal thread copper tube**

Chuanan always selects high quality pipe, adopts 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**

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

### Complying With Australia GEMS Standard

Performance		Model			
		CS-09R/AZ3W-E0	CS-12R/AZ3W-E0	CS-18R/AZ3W-E1	CS-24R/AZ3W-E1
Refrigerant		R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000	12000	18000	24000
Heating Capacity	Btu/h	9000	12100	18000	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)	m <sup>3</sup> /h	550	650	950	1150
Noise Level (dB(A))	Indoor	26/30/32/35	26/29/32/36	29/43/46	42/45/48
	Outdoor	49	50	57	60
Net Dimensions WxDxH	Inside (mm)	820x190x275	900x190x283	900x190x283	1150x240x325
	Outside (mm)	780x250x537	760x250x563	820x275x645	950x310x745
Net Weight (kg)	Indoor/Outdoor	7.7/32	12/34	18/34	19/55
	Indoor (mm)	880x270x360	1020x280x380	1310x347x440	1310x347x440
Packing Dimensions WxDxH	Indoor (mm)	890x352x630	890x352x712	990x400x730	1120x420x875
	Outdoor (mm)	920/8	13/0/8	19/5/8	22/7/8
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	3/8"
	Gas	3/8"	1/2"	1/2"	5/8"
Applicable Area	m <sup>2</sup>	12-17	16-25	20-35	35-50
Loading Quantity (unit)		10/210/255	8/175/198	5/122/132	4/50/100

### Complying With Israel SII Standard

Performance		Model			
		CS-09R/AZ3W-E0	CS-12R/AZ3W-E0	CS-18R/AZ3W-E1	CS-24R/AZ3W-E1
Refrigerant		R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000	12000	18000	24000
Heating Capacity	Btu/h	9000	12100	18000	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)	m <sup>3</sup> /h	550	650	950	1150
Noise Level (dB(A))	Indoor	26/30/32/35	26/29/32/36	29/43/46	42/45/48
	Outdoor	49	50	57	60
Net Dimensions WxDxH	Inside (mm)	820x190x275	900x190x283	900x190x283	1150x240x325
	Outside (mm)	780x250x537	760x250x563	820x275x645	950x310x745
Net Weight (kg)	Indoor/Outdoor	7.7/32	12/34	18/34	19/55
	Indoor (mm)	880x270x360	1020x280x380	1020x280x380	1310x347x440
Packing Dimensions WxDxH	Indoor (mm)	890x352x630	890x352x712	990x400x730	1120x420x875
	Outdoor (mm)	920/8	13/0/8	19/5/8	22/7/8
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	3/8"
	Gas	3/8"	1/2"	1/2"	5/8"
Applicable Area	m <sup>2</sup>	12-17	16-25	20-35	35-50
Loading Quantity (unit)		10/210/255	8/175/198	5/122/132	4/50/100

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

- The applicable area is determined by room volume and insulation, especially take note to conduct calculation.
- The applicable area of air conditioner is related to such conditions: insulation level, height of the building, the size and amount of the room and window, etc. All the applicable area is just for reference.
- Customer receives the right to choose the product design, application, and purchase. There is no specific notice if there is any adjustment, please refer to product specification and product variables.

## Wall Split Series

### R22 ON/OFF High Efficiency



BX



VEA

#### High Efficient Compressor



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

#### High quality internal thread copper tube



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

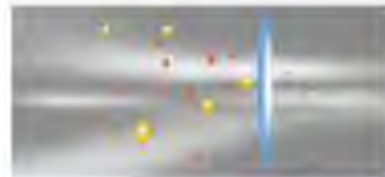
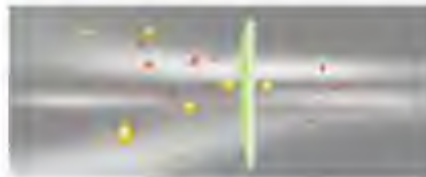
#### Blue multi-stage evaporator



Chunlian air conditioner heat exchange system with the blue multi-stage evaporator, has 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 fibers, which remove dust up to 75.6%, more better than the most ordinary filter. The high density filter traps the internal of the unit cleaner, and then translate dirty air into cleaner air.



### Specification [ON/OFF]

#### Anti Cold Wind Design

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



#### Modal analysis technology

Chunlian 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 the way, Chunlian makes the quality of each components more perfect.

Performance		Model	CS-09R/VEA-E1	CS-12R/VEA-E1	CS-18R/VEA-E1	CS-24R/VEA-E1
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	1080	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 (m³/min)	m³/min		470	520	885	1280
Noise Level (dB(A))	Indoor		26/30/32/35	30/33/36/40	42/45/48/51	48/52/56
	Outdoor		50	51	54	57
Net Dimensions WxDxH	Inside (mm)		786x300x213	866x300x213	1076x228x338	1376x238x338
	Outside (mm)		650x250x596	700x259x537	790x259x663	875x275x646
Net Weight (kg)	Indoor/Outdoor		8.1/25.5	8.1/31	13.6/48	15/51
	Indoor (mm)		850x355x298	930x355x298	1170x300x412	1470x300x412
Packaging Dimensions WxDxH	Indoor (mm)		700x370x391	800x355x388	980x352x712	1170x400x730
	Outdoor (mm)		700x370x391	800x355x388	980x352x712	1170x400x730
Gross Weight (kg)	Indoor/Outdoor		10.6/28.5	10.6/36	13.6/48	15/50
	Indoor/Outdoor		14"	14"	14"	3/8"
Pipe Size (inch)	Liquid		3/8"	1/2"	1/2"	3/8"
	Gas		3/8"	1/2"	1/2"	3/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity (pcs)	30/40/40/40		11/2/3/3/2/5	10/2/10/2/5	7/5/15/2/15/4	8/5/14/2/15/8

Performance		Model	CS-09R/VEA-E2	CS-12R/VEA-E2	CS-18R/VEA-E2	CS-24R/VEA-E2
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	1080	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 (m³/min)	m³/min		470	520	885	1280
Noise Level (dB(A))	Indoor		26/30/32/35	30/33/36/40	42/45/48/51	48/52/56
	Outdoor		50	51	54	57
Net Dimensions WxDxH	Inside (mm)		780x180x260	840x180x260	1060x220x327	1360x220x327
	Outside (mm)		650x250x596	700x259x537	780x259x663	875x275x646
Net Weight (kg)	Indoor/Outdoor		8.1/25.5	8.1/31	13.6/48	15/51
	Indoor (mm)		875x285x349	955x285x340	1170x300x412	1470x300x412
Packaging Dimensions WxDxH	Indoor (mm)		700x370x395	800x355x388	980x352x712	1170x400x730
	Outdoor (mm)		700x370x395	800x355x388	980x352x712	1170x400x730
Gross Weight (kg)	Indoor/Outdoor		10.6/28.5	10.6/36	13.6/48	15/50
	Indoor/Outdoor		14"	14"	14"	3/8"
Pipe Size (inch)	Liquid		3/8"	1/2"	1/2"	3/8"
	Gas		3/8"	1/2"	1/2"	3/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity (pcs)	30/40/40/40		12/2/5/4/2/5	10/2/10/2/5	7/5/15/2/15/4	8/5/14/2/15/8

All above models are offered in indoor panel design, and the same in technical specification.

- 1. The data listed in the table are for reference, and the specific parameter shall refer to actual specification.
- 2. The applicable area is in an open-plan mode to meet maximum load condition. In addition, the load of the outdoor unit is also included, so that the applicable area is just for reference.
- 3. Please consult the local distributor for more details. The data listed in the table are for reference only, and the actual parameter shall refer to the actual specification.



Window Air Conditioners



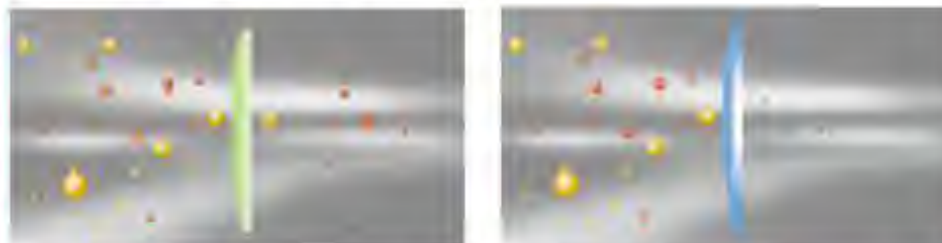
A



B

**High-density air filters**

The advanced high-density filter is made high-density organic fibre, which removed dust up to 78.6%, more better than the most ordinary filter. The high-density filter keeps the internal of the unit cleaner, and then increases duty of the cleaner air.



**Features**



Remote control



High quality internal plastic copper pipe



Timer



Sleep mode



Auto Clean



Quiet mode and high efficiency compressor

Performance	Model	CW-09/2	CW-12/2	CW-18/1	CW-18/1/1
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, 60	1, 220, 60	1, 220, 60	1, 220, 60
Rated Cooling Power Input	W	1080	1330	2100	2200
Rated Heating Power Input	W				2000
Rated Cooling Operating Current	A	5.1	6.3	9.9	16.5
Rated Heating Operating Current	A				8.5
Air Flow Volume(indoor)	m <sup>3</sup> /h	350	350	780	780
Noise Level (dB(A))	Inside/outside	53/58	53/59	60/65	60/67.5
Net Dimensions	W x D x H mm	520*495*340	520*495*340	758*660*436	758*660*436
Net Weight	kg	29	31	58	72
Packing Dimensions	W x D x H mm	610*578*435	610*578*435	850*750*525	850*750*525
Gross Weight	kg	32	35	64	78
Applicable Area	m <sup>2</sup>	12-17	16-20	24-40	24-40
Loading Quantity	unit	20/40/40/40	17/6/37/6/4/4	17/6/37/6/4/4	84/168/208

Performance	Model	C3W-18/B	C3W-18R/B	C3W-18S/B-90	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, 60	1, 220, 60	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	11.2	10.2	11.0	12.6
Rated Heating Operating Current	A		11.2			12.6
Air Flow Volume(indoor)	m <sup>3</sup> /h	750	750	750	850	850
Noise Level (dB(A))	Inside/outside	59/65	59/67.5	59/64	62/69	62/69
Net Dimensions	W x D x H mm	758*660*436	758*660*436	758*660*436	758*660*436	758*660*436
Net Weight	kg	58	72	58	62	75
Packing Dimensions	W x D x 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 <sup>2</sup>	23-30	23-30	23-30	30-60	30-60
Loading Quantity	unit	20/40/40/40	84/168/208	84/168/208	84/168/208	84/168/208

\* The noise level is the limit value for reference, and the specific parameter shall refer to product manual.  
 † The applicable area of air conditioner is related to room structure, insulation level, height of the building, the position location of the window and whether the applicable area is just for reference.  
 ‡ Check whether the right to change the product design, specification and parameter. Taking its specific model if there are any adjustment, please refer to product specification and product manual.



**International leading vector control chip**



This 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 wave consistent. Compared with the 120° square wave technology, it can improve the operating efficiency of the compressor.

**Quick view**

\*R410A Super Silent Technology

Corrosion Resistant Electro Heating (Overheat)

Strong Independent Differentiation

Anti-Cold Air Function

Independent Variable Speed

Backlight Remote Control

24 Hour Timer

Wide Voltage Start

Independent Digital Display Button

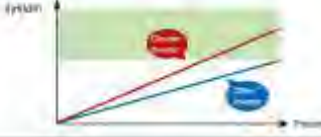
Intelligent Control

Wide Circuit Design

### Chunlan innovative technologies


**Inverter potential optimization technology**

Improved technology of inverter system optimizes quadratic code 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 comparison

**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.



		Model	CF-18R/VF4-E3	CF-24R/VF4-E3	CF-24(R)/VF4Wa-E3
Refrigerant			R22	R22	R410a
Cooling Capacity	Btu/h		18000	24000	24000
Heating Capacity	Btu/h		18800	26000	26000
Power supply	Ph, V~, Hz		1, 220, 60	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		1810	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 (m³/min)			850	1000	1000
Noise level (dB(A))	Indoor		38/42/45	45/48/51	45/48/51
	Outdoor		55	60	60
Net Dimensions (WxDxH)	Indoor (mm)		500x285x1780	500x285x1780	500x285x1780
	Outdoor (mm)		823x275x648	850x310x745	850x310x745
Net Weight (kg)	Indoor/Outdoor		37/54	39/65	39/63
	Indoor (mm)		690x425x1915	690x425x1915	690x425x1915
Packing Dimensions (WxDxH)	Outdoor (mm)		880x400x750	1128x420x875	1128x420x875
	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"
Appllicable Area (m²)			30-57	30-58	30-58
Shipping Quantity (sets)	CF-18/CF-24/CF-24W		32/48/78	28/39/70	28/39/70

\* The appearance of the key chip is reference, and the specific parameters shall refer to product information.  
 \* 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 warranty value if there is any error and adjustment, please refer to product specification for product information.



Floor Standing Air Conditioners

**Strong capability, long distance air supply**

Chunlian floor standing type air conditioner is excellent for its 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).



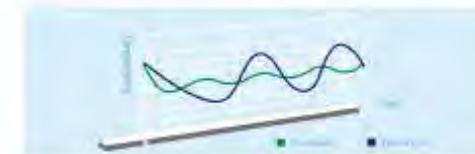
**Low noise**

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



**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.



**High efficient compressor**

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



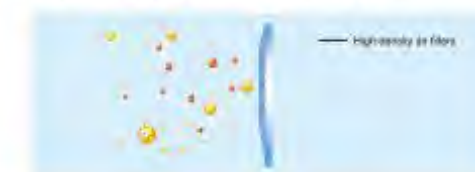
**LED full screen dynamic display**

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



**High-density air filters**

Adopting high density air filter, effectively filters dust, pollen, smog, which removes dust up to 78.6%, more 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.





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/HB CF-96R/HdS

Performance	Model	CF-42/AS	CF-42R/AdS	CF-42R/AWAdS	CF-42/AHS	CF-42R/AHdS	CF-42R/AHWAdS
Refrigerant		R22	R22	R410A	R22	R22	R410A
Cooling Capacity	Btu/h	42000	42000	42000	42000	42000	42000
Heating Capacity	Btu/h		42000(2500)	42000(2500)		42000(2500)	42000(2500)
Power Supply	Ph, V~, Hz	3, 220, 50	3, 220, 50	3, 220, 50	3, 220, 50	3, 220, 50	3, 220, 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 <sup>3</sup> /h	1600	1600	1600	1600	1600	1600
Noise Level (dB(A))	Indoor	54	54	54	52	52	52
	Outdoor	50	50	50	50	50	50
Air Dimensions (WxDxH)	Indoor (mm)	540x270x1820	540x270x1820	540x270x1820	540x270x1820	540x270x1820	540x270x1820
	Outdoor (mm)	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157
Net Weight (kg)	Indoor/Outdoor	21/20	21/20	21/20	21/20	21/20	21/20
	Indoor/Outdoor	21/20	21/20	21/20	21/20	21/20	21/20
Packing Dimensions (WxDxH)	Indoor (mm)	630x470x1920	630x470x1920	630x470x1920	630x470x1920	630x470x1920	630x470x1920
	Outdoor (mm)	1100x480x1350	1100x480x1350	1100x480x1350	1100x480x1350	1100x480x1350	1100x480x1350
Gross Weight (kg)	Indoor/Outdoor	60/114	60/114	60/114	60/124	60/124	60/124
	Indoor/Outdoor	60/120	60/120	60/120	60/120	60/120	60/120
Loading Quantity (Set)	20/40/40/40	18/36/45	18/36/45	18/36/45	18/36/45	18/36/45	18/36/45

Performance	Model	CF-42/BS	CF-42R/BdS	CF-42R/BWAdS	CF-42/BHS	CF-42R/BHdS	CF-42R/BHWAdS
Refrigerant		R22	R22	R410A	R22	R22	R410A
Cooling Capacity	Btu/h	42000	42000	42000	42000	42000	42000
Heating Capacity	Btu/h		42000(2500)	42000(2500)		42000(2500)	42000(2500)
Power Supply	Ph, V~, Hz	3, 220, 50	3, 220, 50	3, 220, 50	3, 220, 50	3, 220, 50	3, 220, 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 <sup>3</sup> /h	1600	1600	1600	1600	1600	1600
Noise Level (dB(A))	Indoor	54	54	54	52	52	52
	Outdoor	50	50	50	50	50	50
Air Dimensions (WxDxH)	Indoor (mm)	540x270x1820	540x270x1820	540x270x1820	540x270x1820	540x270x1820	540x270x1820
	Outdoor (mm)	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157	1000x410x1157
Net Weight (kg)	Indoor/Outdoor	21/20	21/20	21/20	21/20	21/20	21/20
	Indoor/Outdoor	21/20	21/20	21/20	21/20	21/20	21/20
Packing Dimensions (WxDxH)	Indoor (mm)	630x470x1920	630x470x1920	630x470x1920	630x470x1920	630x470x1920	630x470x1920
	Outdoor (mm)	1100x480x1350	1100x480x1350	1100x480x1350	1100x480x1350	1100x480x1350	1100x480x1350
Gross Weight (kg)	Indoor/Outdoor	60/114	60/114	60/114	60/124	60/124	60/124
	Indoor/Outdoor	60/120	60/120	60/120	60/120	60/120	60/120
Loading Quantity (Set)	20/40/40/40	18/36/45	18/36/45	18/36/45	18/36/45	18/36/45	18/36/45

Performance	Model	CF-96/FS	CF-96R/FdS	CF-96R/FWAdS	CF-96R/HB	CF-96R/HdS
Refrigerant		R22	R22	R410A	R22	R22
Cooling Capacity	Btu/h	96000	96000	96000	96000	96000
Heating Capacity	Btu/h		96000(2500)	96000(2500)		96000(2500)
Power Supply	Ph, V~, Hz	3, 220, 50	3, 220, 50	3, 220, 50	3, 220, 50	3, 220, 50
Rated Cooling Power Input	W	10700	10700	10200	9300	9300
Rated Heating Power Input	W		10700(2400)	10200(2400)		9300(2400)
Rated Cooling Operating Current	A	19.8	19.8	20.0	19.5	19.5
Rated Heating Operating Current	A		19.8(11)	20.0(11)		19.5(11)
Air Flow Volume(Indoor)	m <sup>3</sup> /h	4200	4200	4200	4200	4200
Noise Level (dB(A))	Indoor	61	61	61	61	61
	Outdoor	53	53	53	53	53
Air Dimensions (WxDxH)	Indoor (mm)	1200x490x1813	1200x490x1813	1200x490x1813	1200x490x1813	1200x490x1813
	Outdoor (mm)	2800x950x1051	2800x950x1051	2800x950x1051	2800x950x1051	2800x950x1051
Net Weight (kg)	Indoor/Outdoor	140/162	140/162	140/162	150/172	150/160
	Indoor/Outdoor	140/162	140/162	140/162	150/172	150/160
Packing Dimensions (WxDxH)	Indoor (mm)	1290x500x1977	1290x500x1977	1290x500x1977	1290x500x1977	1290x500x1977
	Outdoor (mm)	3220x1020x1215	3220x1020x1215	3220x1020x1215	3220x1020x1215	3220x1020x1215
Gross Weight (kg)	Indoor/Outdoor	152/192	152/192	152/192	160/202	160/190
	Indoor/Outdoor	152/200	152/200	152/200	160/200	160/190
Loading Quantity (Set)	10/40/40/40	7/14/22	7/14/22	7/14/22	7/14/22	7/14/22

A. This data listed in the form only for reference, and the specific parameters shall refer to product specification.  
 B. The applicable area of air conditioner is related to room orientation, insulation level, height of the building, the size and amount of the door and windows, so that the applicable area is just for reference.  
 C. Danfoss reserves the right to change the product design, specifications, and parameters. There is no specific notice there appears any equipment, please refer to product specifications and product description.



Cassette Air Conditioners

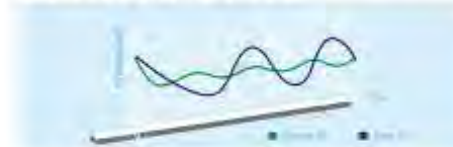
**Intelligent control, energy-saving**

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.







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	1780	2390
Rated Heating Power Input	W	1200	1800	2500
Rated Cooling Operating Current	A	5.40	8.08	11.08
Rated Heating Operating Current	A	5.83	8.27	11.59
Air Flow Volume(Indoor)	m <sup>3</sup> /h	620	900	1300
Noise Level (dB(A))	Indoor	41	41	45
	Outdoor	53	55	60
Net Dimensions (W×D×H)	Inside (mm)	615x615x283	615x615x283	835x835x250
	Outside (mm)	800x286x530	900x286x530	890x370x770
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	m <sup>2</sup>	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	9.88	10.42
Rated Heating Operating Current	A	6.28	9.33	10.88
Air Flow Volume(Indoor)	m <sup>3</sup> /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)	903x354x657	940x366x1366	940x366x1366
Net Weight (kg)	Indoor/Outdoor	25/71	31.5/101	31.5/102
	Indoor (mm)	910x910x310	910x910x350	910x910x350
Packing Dimensions (W×D×H)	Panel (mm)	1000x1000x100	1080x1080x100	1080x1080x100
	Outdoor (mm)	1030x410x980	1080x460x1500	1080x460x1500
Gross Weight (kg)	Indoor/Outdoor	34.5/81	37.5/112	37.5/113
Applicable Area	m <sup>2</sup>	42-70	56-93	64-107

\* The data listed in the form only for reference, and the specific parameters please refer to product manuals.  
 † The applicable area of air conditioner is related to many conditions: installation space, height of the building, the size and amount of the duct and window, so that the applicable area is just for reference.  
 ‡ Customer reserves the right to change the product design, specification, and content without notice to specific notice if there is necessary adjustment. Please refer to product specifications and product manuals.



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.



#### Automatic fault diagnosis

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



#### High-density air filters

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



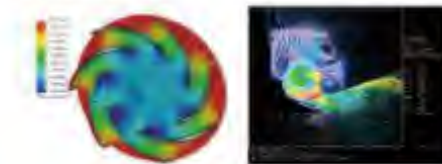
#### Various control method

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.



#### Finite element analysis technology

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



#### Healthy new fresh air technology

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



### Advanced Intelligent Centralized Control System

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



### Multi Module Combination

Chunfan 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.





Performance		Model	CDL-18R/Wa	CDL-24R/Wa
Refrigerant			R410a	R410a
Cooling Capacity	Btu/h		13000	24000
Heating Capacity	Btu/h		20000	27500
Power supply	Ph, V~, Hz		1,220,50	1,220,50
Rated Cooling Power Input	W		1730	2380
Rated Heating Power Input	W		1780	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	58
Net Dimensions (WxDxH)	Indoor (mm)		880x785x290	890x785x290
	Outdoor (mm)		830x280x330	890x330x370
Net Weight (kg)	Indoor/Outdoor		36/40	36/50
	Indoor (mm)		1100x870x360	1100x870x380
Packing Dimensions (WxDxH)	Outdoor (mm)		920x400x420	1020x430x780
	Indoor/Outdoor		40/48	42/54
Applicable Area	m²		21-35	26-47



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



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

Performance		Model	CDM-36R/Wa	CDM-48R/Wa	CDH-60R/Wa
Refrigerant			R410a	R410a	R410a
Cooling Capacity	Btu/h		36000	46000	60000
Heating Capacity	Btu/h		40000	53000	63000
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		2500	5130	5000
Rated Cooling Operating Current	A		5.69	8.88	16.42
Rated Heating Operating Current	A		6.28	9.35	16.86
Air Flow Volume(Indoor)	m³/h		2000	2400	2800
Noise Level (dB(A))	Indoor		50	53	53
	Outdoor		62	60	60
Net Dimensions (WxDxH)	Indoor (mm)		890x785x290	1250x785x290	1250x785x290
	Outdoor (mm)		903x354x357	940x368x1366	940x368x1366
Net Weight (kg)	Indoor/Outdoor		36/71	52/101	52/102
	Indoor (mm)		1100x870x360	1460x870x360	1460x870x360
Packing Dimensions (WxDxH)	Outdoor (mm)		1030x410x498	1080x480x1500	1080x480x1500
	Indoor/Outdoor		42/61	58/111	58/111
Applicable Area	m²		42-70	58-85	64-107

\* The data listed in the technical specification does not include power and noise data for outdoor condenser.  
 † The applicable area of air conditioner is related to room construction, insulation level, height of the building, the size and amount of the doors and windows, air that the applicable area is just for reference.  
 ‡ Customer reserves the right to change the product design, specifications, and performance. There is no specific issue if there appears any adjustment, please refer to product specifications and product photographs.



Performance		Model	CCF-18(R)Ww	CCF-24(R)Ww
Refrigerant			R410a	R410a
Cooling Capacity	Btu/h		15000	24000
Heating Capacity	Btu/h		20000	27500
Power supply	Ph, V~, Hz		1,220, 50	1,220, 50
Rated Cooling Power Input	W		1770	2380
Rated Heating Power Input	W		1770	2400
Rated Cooling Operating Current	A		7.90	10.08
Rated Heating Operating Current	A		8.13	11.59
Air Flow Volume(Indoor)	m³/h		850	1200
Noise Level (dB(A))	Indoor		43	48
	Outdoor		55	60
Net Dimensions (W×D×H)	Indoor (mm)		500x480x205	1280x480x205
	Outdoor (mm)		800x280x130	890x320x170
Net Weight (kg)	Indoor/Outdoor		20/40	32/50
	Indoor (mm)		1010x720x290	1360x720x290
Packaging Dimensions (W×D×H)	Indoor (mm)		920x400x220	1020x430x290
	Indoor/Outdoor		28/48	37/58
Applicable Area	m²		21-35	26-47



CCF-18Ww CCF-18R/Ww  
CCF-24Ww CCF-24R/Ww



CCF-36Ww CCF-36R/Ww  
CCF-48Ww CCF-48R/Ww  
CCF-60Ww CCF-60R/Ww

Performance		Model	CCF-36(R)Ww	CCF-48(R)Ww	CCF-60(R)Ww
Refrigerant			R410a	R410a	R410a
Cooling Capacity	Btu/h		36000	48000	60000
Heating Capacity	Btu/h		40000	53000	63800
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		2500	5130	5970
Rated Cooling Operating Current	A		6.75	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)	Indoor (mm)		1280x680x205	1631x680x205	1631x880x205
	Outdoor (mm)		903x354x857	940x368x1366	940x368x1366
Net Weight (kg)	Indoor/Outdoor		33/71	44/101	44/102
	Indoor (mm)		1380x720x290	1710x720x290	1710x720x290
Packaging Dimensions (W×D×H)	Indoor (mm)		1030x410x280	1080x480x1500	1080x480x1500
	Indoor/Outdoor		40/81	50/111	50/111
Applicable Area	m²		45-70	58-80	64-107

\* The data listed in the technical specification does not include power and noise in product installation.  
 † The applicable area of air conditioner is related to room construction, insulation level, height of the building, the size and amount of the doors and windows, air that the applicable area is just for reference.  
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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

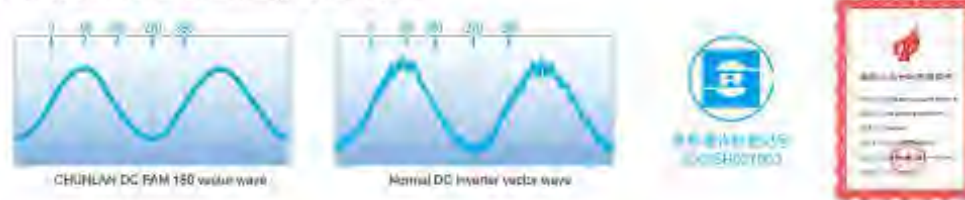
Several compressors share a set of condenser, when one or more stop work, it equals to the heat transfer area of the condenser increases exponentially

#### Condenser adjustment technology

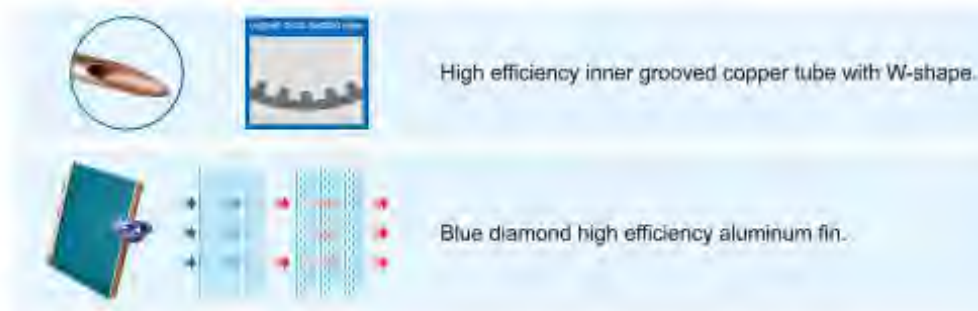
Since the DC invert compressor's energy efficiency is the highest under specific partial load, the condenser use electronic expansion valve control design, according to the unit load, adjusting the electronic expansion valve, enable the compressor to maintain efficient running state under partial load

### HVAC industry's leading invert control technology

PAM180°DC invert control technology with own patent.



### Chunlian 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's 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



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

### The refrigerant pressure' detection technology

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

The quick and exactly detection on the system's refrigerant condition is the guarantee of the system efficient work. Chunlian CDMVIII 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.

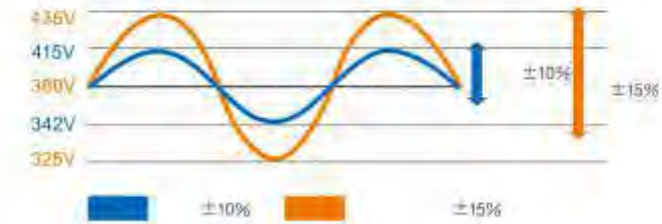


Comprehensive protection function



- 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

Wide voltage design, coping with the power consumption peak

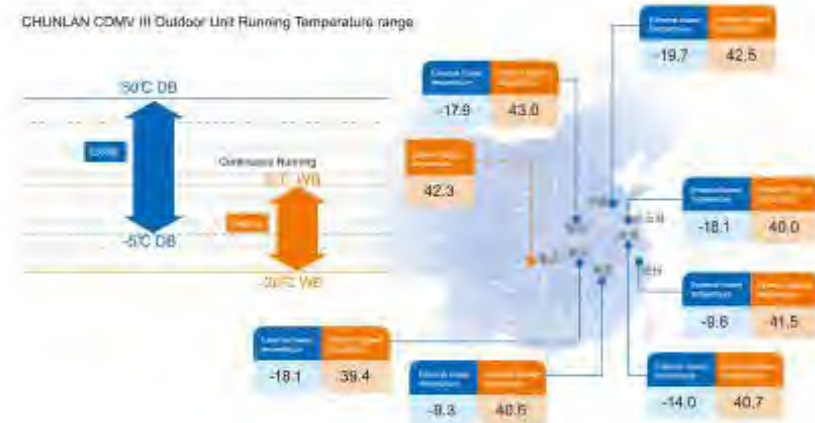


Fault memory function



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

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



Wide 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



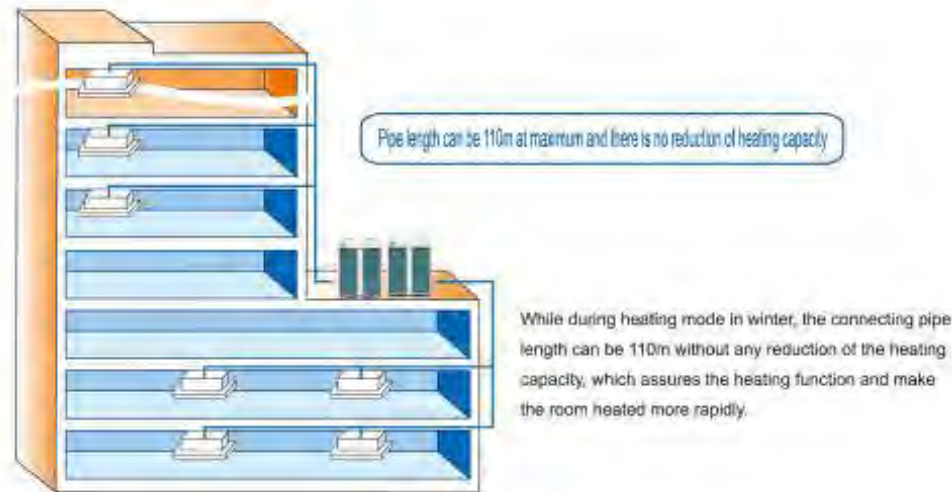
Modularized VRV system



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

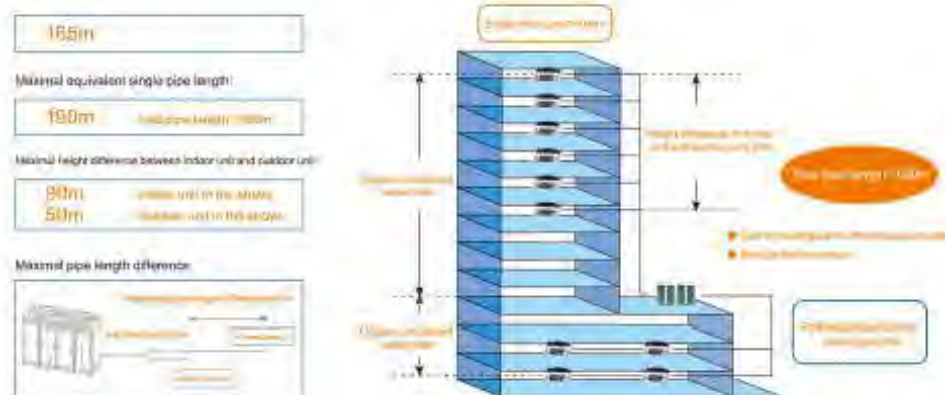


Application Area: school, home, restaurant, supermarket, hotel and other area.

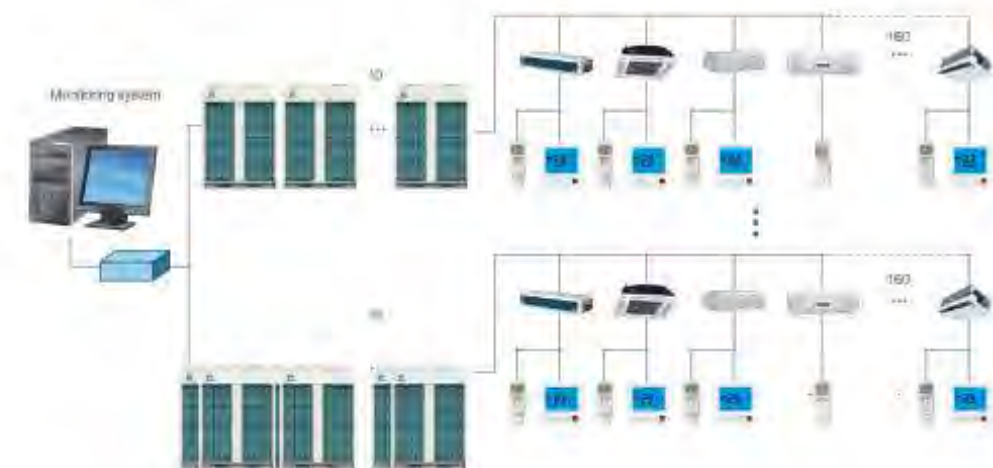


Ultra long refrigerant pipe, free design and construction

Maximal single pipe length:



- Notes:
1. Pipe length after the first branch pipe more than 40m should meet certain conditions. Please consult Chunlan 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)		Heat Power (kW)		Power Supply	Refrigerant	Capacity (kg)	Pipe Size (mm)	Temp. Range (°C)	Dimension (mm)			Weight (kg)
	Cooling	Heating	Cooling	Heating						W	D	H	
CDW422ZV1P(W)	22.9	23	5.1	6.2	24	4.2	205	40	11	620	240	280	30
CDW422ZV2P(W)	25	26	5.8	6.7	24	4.2	205	40	11	620	240	280	30
CDW422ZV3P(W)	27.2	28	6.3	7.3	24	4.2	205	40	11	620	240	280	30
CDW422ZV4P(W)	30	31.5	6.7	7.7	24	4.2	205	40	11	620	240	280	30
CDW422ZV5P(W)	33	34	7.3	8.3	24	4.2	205	40	11	620	240	280	30
CDW422ZV6P(W)	35.5	37	7.8	9.1	24	4.2	205	40	11	620	240	280	30
CDW422ZV7P(W)	38	39	8.3	9.6	24	4.2	205	40	11	620	240	280	30
CDW422ZV8P(W)	40	41	8.8	10.1	24	4.2	205	40	11	620	240	280	30
CDW422ZV9P(W)	43	44	9.3	10.6	24	4.2	205	40	11	620	240	280	30
CDW422ZV10P(W)	46	47	9.8	11.1	24	4.2	205	40	11	620	240	280	30



the ultra-thin duct type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level (dB(A))	Power Supply	Refrigerant (kg)		Capacity (kg)	Pipe Size (mm)	Dimension (mm)			Weight (kg)	
						Cooling	Heating			W	D	H		
CDW422ZV1P(W)	22.9	23	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV2P(W)	25	26	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV3P(W)	27.2	28	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV4P(W)	30	31.5	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV5P(W)	33	34	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV6P(W)	35.5	37	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV7P(W)	38	39	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV8P(W)	40	41	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV9P(W)	43	44	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30
CDW422ZV10P(W)	46	47	450	54	0	220V-220V	20	20	4.2	4.2	240	40	195	30

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outdoor unit

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Refrigerant (kg)		Capacity (kg)	Pipe Size (mm)	Temp. Range (°C)	Dimension (mm)			Weight (kg)
			Cooling	Heating				W	D	H	
CDW422ZV1P(W)	22.9	23	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV2P(W)	25	26	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV3P(W)	27.2	28	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV4P(W)	30	31.5	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV5P(W)	33	34	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV6P(W)	35.5	37	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV7P(W)	38	39	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV8P(W)	40	41	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV9P(W)	43	44	4.2	4.2	20	40	11	620	240	280	30
CDW422ZV10P(W)	46	47	4.2	4.2	20	40	11	620	240	280	30



standard type

Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level (dB(A))	Power Supply	Refrigerant (kg)		Capacity (kg)	Pipe Size (mm)	Dimension (mm)			Weight (kg)
						Cooling	Heating			W	D	H	
CDW422ZV1P(W)	2.2	2.2	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV2P(W)	2.5	2.5	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV3P(W)	2.8	2.8	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV4P(W)	3.1	3.1	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV5P(W)	3.4	3.4	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV6P(W)	3.7	3.7	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV7P(W)	4.0	4.0	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV8P(W)	4.3	4.3	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV9P(W)	4.6	4.6	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195
CDW422ZV10P(W)	4.9	4.9	400	26.2	0	220V-220V	15	15	4.2	4.2	240	40	195

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high static pressure duct type

Performance	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)		Dimension (mm)			Weight (kg)	Applicable Area m²	
								Cooling	Heating	Gas	Liquid	W	D	H			
																	Water Pipe Size Ø (mm)
	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



middle static pressure duct type

Performance	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)		Dimension (mm)			Weight (kg)	Applicable Area m²	
								Cooling	Heating	Gas	Liquid	W	D	H			
																	Water Pipe Size Ø (mm)
	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



one-way cassette type

Performance	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)		Dimension (mm)			Weight (kg)	Applicable Area m²	
								Cooling	Heating	Gas	Liquid	W	D	H			
																	Water Pipe Size Ø (mm)
	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	12.7	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



four-way cassette type

Performance	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)		Dimension (mm)			Weight (kg)		Applicable Area m²
								Cooling	Heating	Gas	Liquid	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



wall split type

Performance	Model	Cooling Capacity (kW)	Heating Capacity (kW)	Air Flow (m³/h)	Noise Level dB(A)	Power Supply	Rated Power Input (W)		Pipe Size Ø (mm)		Dimension (mm)			Weight (kg)	Applicable Area m²	
							Cooling	Heating	Gas	Liquid	W	D	H			
																Water Pipe Size Ø (mm)
	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-R28G/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



floor standing type

Performance	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)		Dimension (mm)			Weight (kg)	Applicable Area m²	
								Cooling	Heating	Gas	Liquid	W	D	H			
																	Water Pipe Size Ø (mm)
	CDMV-Rd50L/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-Rd56L/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

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Modular Air Cooled (Heated) Water Chiller

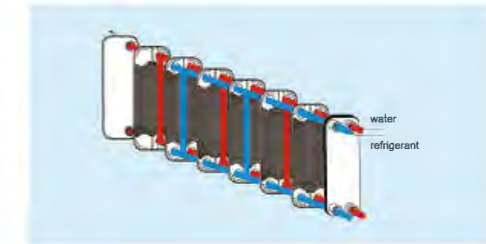
**Healthy fresh air technology**

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



**Efficient plate heat exchanger**

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



**High reliability components**

Adhering to 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.



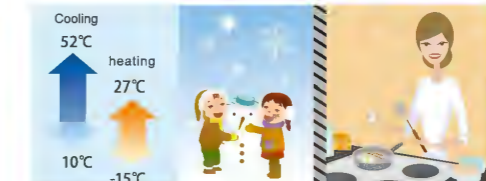
**Ultra-wide temperature regulation**

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.



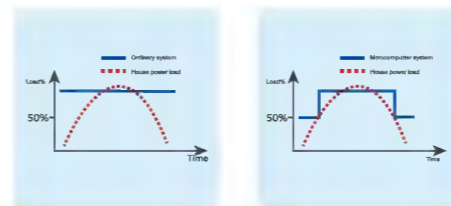
**Wide climate adaptability**

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).



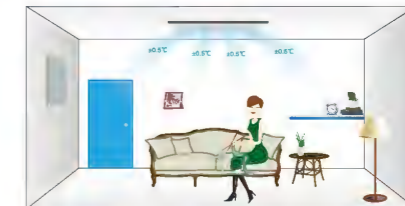
**Automatically adjusting power input**

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 .



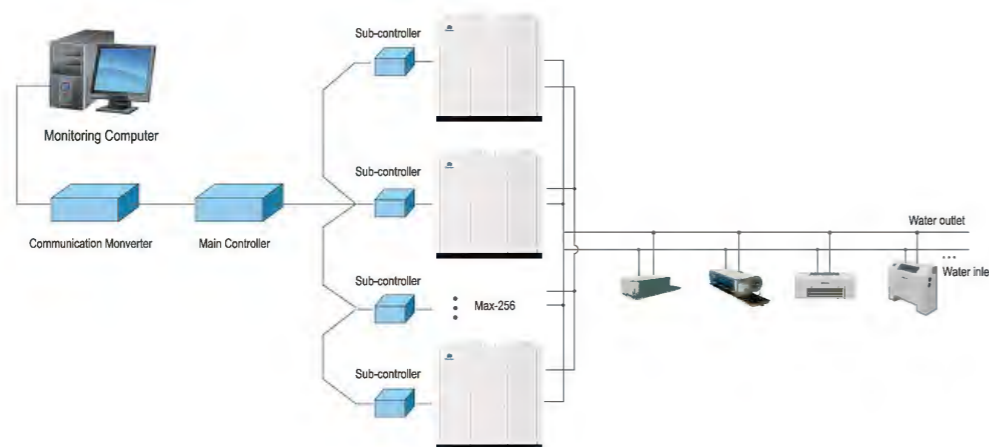
**Comfortable temperature regulation**

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..



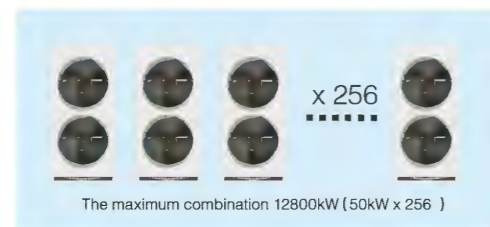
### Advanced intelligent centralized control system

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.



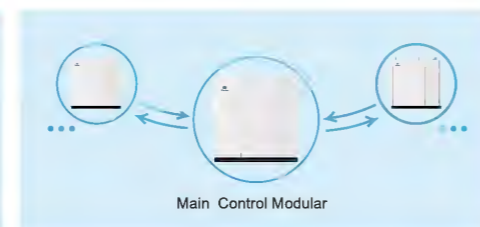
### Flexibility combination

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.



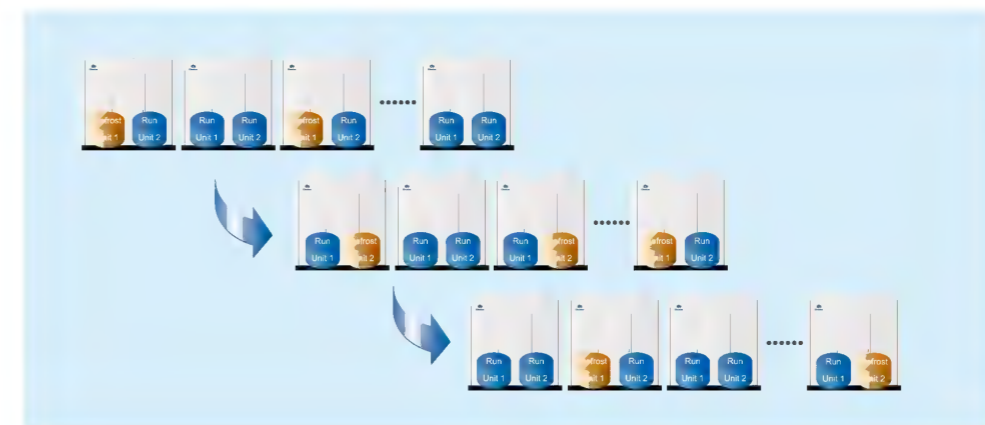
### Any main control module design

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.



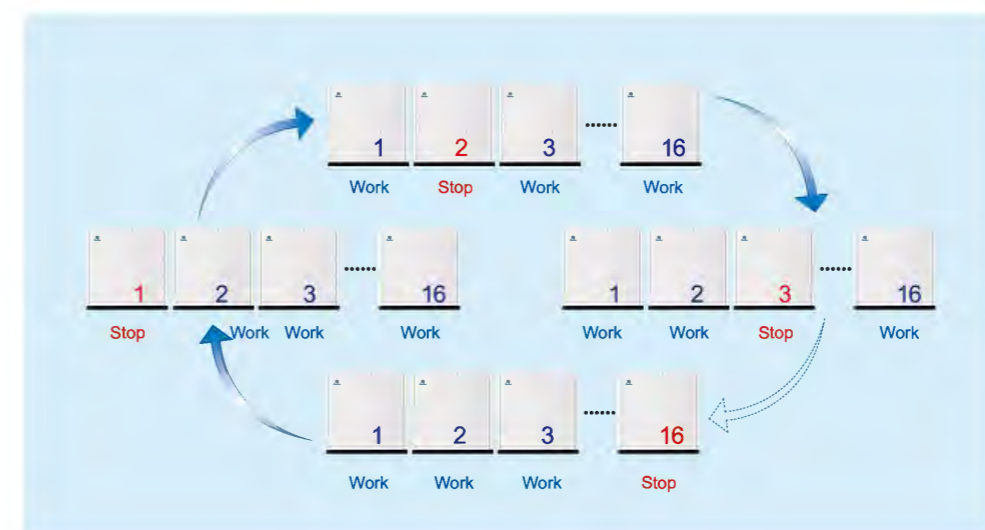
### Alternate defrost technology

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	1040
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 <sup>2</sup>	60-120	85-170	140-280

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Model	LSQWRF60M/B-E4						
Cooling Capacity	kw	60	120	180	240	300	60XN (N<256)
	Kcal/h	51600	103200	154800	206400	258000	51600XN
Heating Capacity	kw	61	122	183	244	305	61XN
	Kcal/h	52460	104920	157380	209840	262300	52460XN
Power Input	kw	21	21x2	21x3	21x4	21x5	21xN
Power Supply	380V 3N-50Hz						
Compressor	Type	Hermetic Scroll Compressor					
Air Flow	m <sup>3</sup> /h	26000	52000	78000	104000	130000	26000XN
Water Flow	m <sup>3</sup> /h	10.3	20.6	30.9	41.2	51.5	10.3XN
Water Resistance	KPa	50	52.5	55	57.5	60	50+2.5 (N-1)
Net Weight	kg	550	550x2	550x3	550x4	550x5	550xN
Refrigerant	R22						
Charging volume	kg	7.35x2	7.35x4	7.35x6	7.35x8	7.35x10	7.35x2N
Pipe Diameter and type	DN50 Flange connection						
Dimension	WxDxH:mm	1600X960X1903 (Single Modular)					
Ambient temperature	°C	-7~43					

Model	LSQWRF65M-E4						
Cooling Capacity	kw	65	130	195	260	325	65XN (N<256)
	Kcal/h	55900	111800	167700	223600	279500	55900XN
Heating Capacity	kw	66	132	198	264	330	66XN
	Kcal/h	56760	113520	170280	227040	283800	56760XN
Power Input	kw	22.7	22.7x2	22.7x3	22.7x4	22.7x5	22.7xN
Power Supply	380V 3N-50Hz						
Compressor	Type	Hermetic Scroll Compressor					
Air Flow	m <sup>3</sup> /h	26000	52000	78000	104000	130000	26000XN
Water Flow	m <sup>3</sup> /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	7.5x2	7.5x4	7.5x6	7.5x8	7.5x10	7.5x2N
Pipe Diameter and type	DN50 Flange connection						
Dimension	WxDxH:mm	1600x960x1903(Single Modular)					
Ambient temperature	°C	-7~43					

Model	LSQWRF65M-E2						
Cooling Capacity	kw	65	130	195	260	325	65XN (N<256)
	Kcal/h	55900	111800	167700	223600	279500	55900XN
Heating Capacity	kw	65	130	195	260	325	65XN
	Kcal/h	55900	111800	167700	223600	279500	55900XN
Power Input	kw	19.9	19.9x2	19.9x3	19.9x4	19.9x5	19.9xN
Power Supply	380V 3N-50Hz						
Compressor	Type	Hermetic Scroll Compressor					
Air Flow	m <sup>3</sup> /h	26000	52000	78000	104000	130000	26000XN
Water Flow	m <sup>3</sup> /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	8.5x2N
Pipe Diameter and type	DN50 Flange connection						
Dimension	WxDxH:mm	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	.....	86000XN
Heating Capacity	kw	100	200	300	400	500	.....	100XN
	Kcal/h	86000	172000	258000	344000	430000	.....	86000XN
Power Input	kw	35	35x2	35x3	35x4	35x5	.....	35xN
Power Supply		380V 3N~50Hz						
Compressor	Type	Hermetic Scroll Compressor						
Air Flow	m <sup>3</sup> /h	52000	104000	156000	208000	260000	.....	52000XN
Water Flow	m <sup>3</sup> /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	.....	6.8x4N
Pipe Diameter and type		DN65 Flange connection						
Dimension	WxDxHmm	1900x1600x1903 (Single Modular)						
Ambient temperature	°C	-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 <sup>3</sup> /h	72000	144000	216000	288000	360000	.....	72000XN
Water Flow	m <sup>3</sup> /h	27.5	55	82.5	110	137.5	.....	27.5XN
Water Resistance	KPa	120	122.5	125	127.5	130	.....	120+2.5 (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	WxDxHmm	2000x1900x2290 (Single Modular)						
Ambient temperature	°C	-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	m <sup>3</sup> /h	52000	104000	156000	208000	260000	.....	52000XN
Water Flow	m <sup>3</sup> /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	7x4	7x8	7x12	7x16	7x20	.....	7x4N
Pipe Diameter and type		DN65 Flange connection						
Dimension	WxDxHmm	1900x1600x1903 (Single Modular)						
Ambient temperature	°C	-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	m <sup>3</sup> /h	26000	52000	78000	104000	130000	.....	26000XN
Water Flow	m <sup>3</sup> /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	.....	8.5x2N
Pipe Diameter and type		DN50 Flange connection						
Dimension	WxDxHmm	1600x960x1903 (Single Modular)						
Ambient temperature	°C	-20~43						

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	m <sup>3</sup> /h	52000	104000	156000	208000	260000	.....	52000XN
Water Flow	m <sup>3</sup> /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	°C	-7~43						

Model		LSQWRF130MDW						
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	m <sup>3</sup> /h	52000	104000	156000	208000	260000	.....	52000XN
Water Flow	m <sup>3</sup> /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	°C	-20~43						

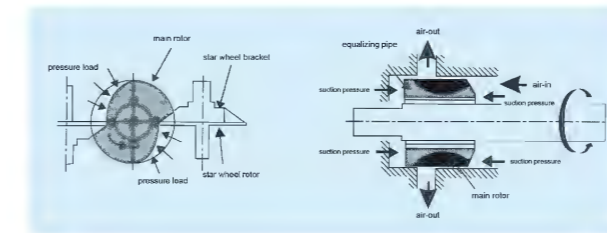
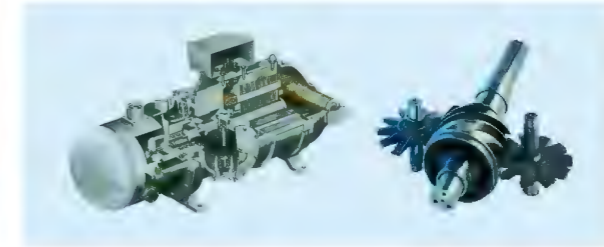


Water Cooled Screw Chiller

### Advanced Screw Compressor

#### F-Series(Single-Screw Compressor)

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



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

### Multi units combination, wide application range

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

<p>400F unit, 2 units are combined</p> <p>Cooling capacity:800KW Heating capacity:850KW</p>	<p>400F/800F/1600F unit, 3 units are combined</p> <p>Cooling capacity:2800KW Heating capacity:3275KW</p>	<p>1600F unit, 32 units are combined</p> <p>Cooling capacity:51200KW Heating capacity:60800KW</p>
<p>210K unit, 2 units are combined</p> <p>Cooling capacity:420KW Heating capacity:452KW</p>	<p>210K/400K/790K unit, 3 units are combined</p> <p>Cooling capacity:1400KW Heating capacity:1584KW</p>	<p>790K unit, 32 units are combined</p> <p>Cooling capacity:25280KW Heating capacity:29760KW</p>



**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 (1995-1999 standard)	GWP (1995-1999 standard)	Toxicity	Flammability
R22	CHF <sub>2</sub> Cl	0.05	0.3	Innocuous	Nonflammable
R134a	C <sub>2</sub> H <sub>2</sub> F <sub>4</sub>	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 Chuntan chiller are supplied by well know corporations including Danfoss, Emerson and Sporlan. The performance are high reliable and the control and very accurate.



**Convenient Installation and Maintenance**

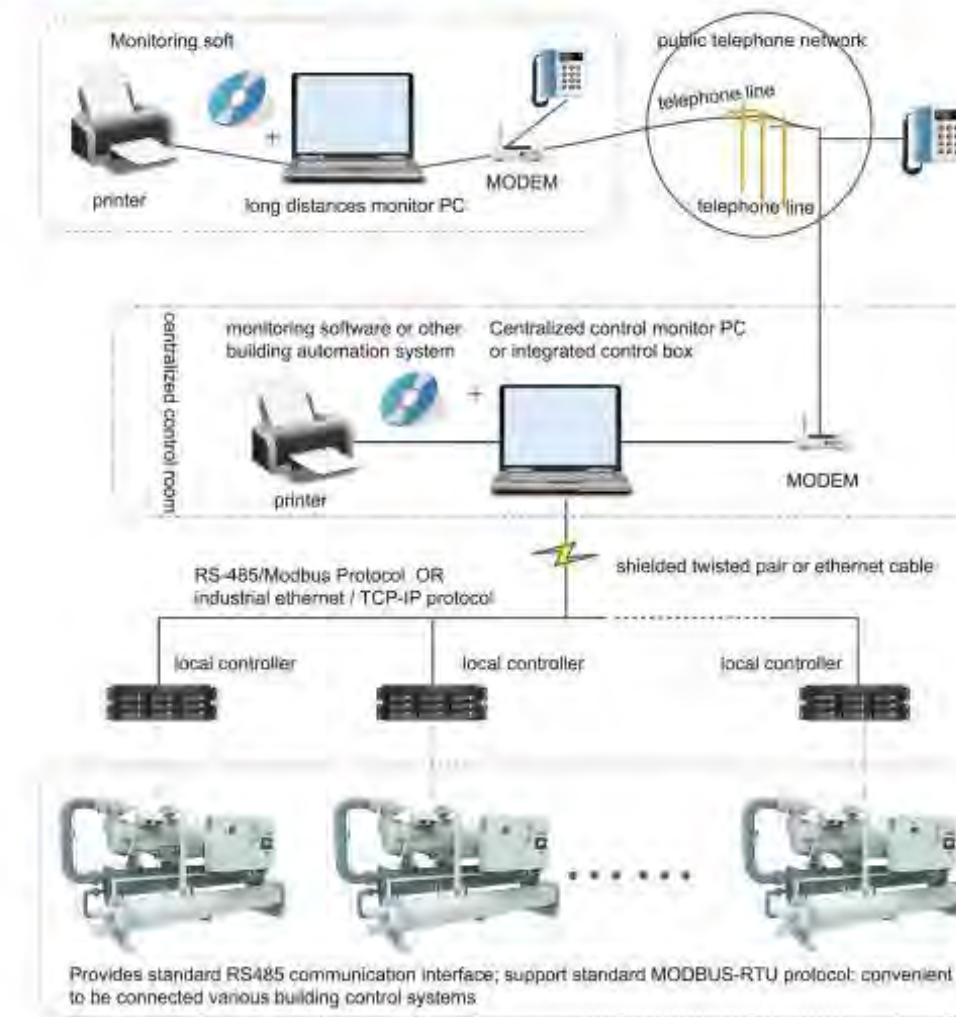
Lubricant oil and refrigerant has been charged in factory production. End user only need to connect the water pipe and electric wiring so as to put into use. This can greatly reduce the time for on spot installation and debugging.

**Humanized operation interface**

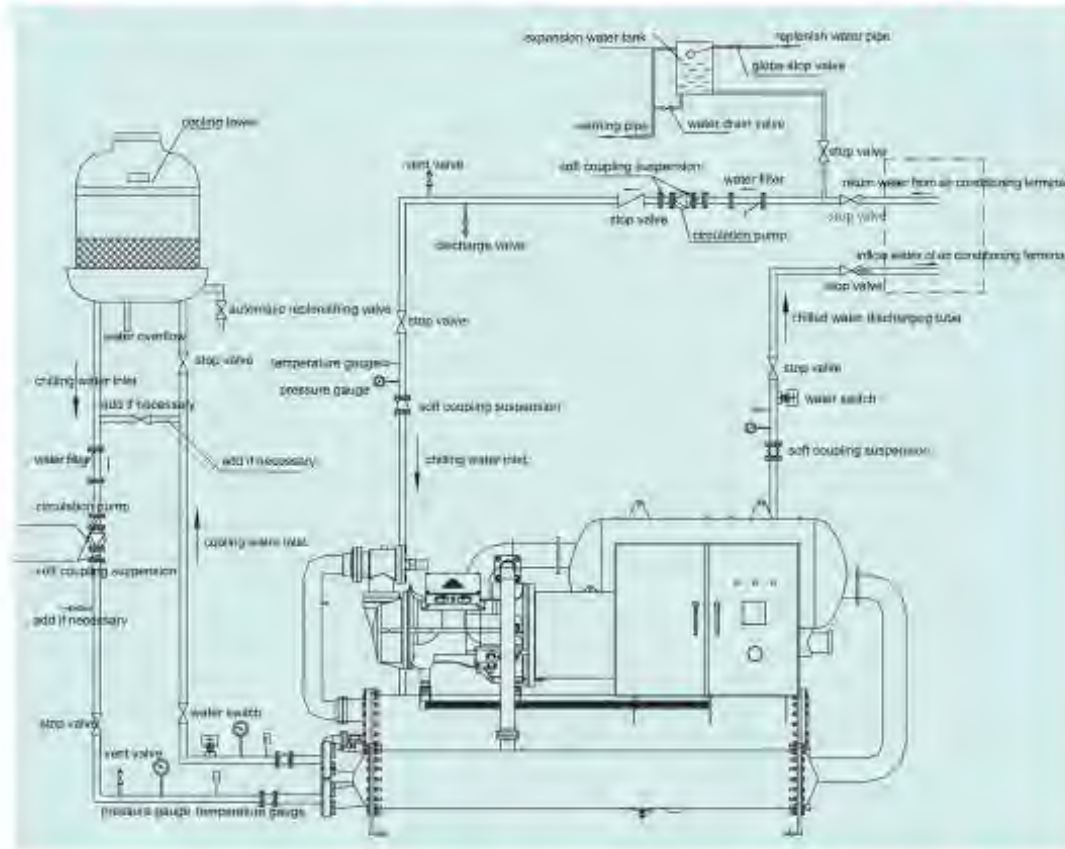


High-resolution LED backlight touch screen, 800\*480, 35535 digital true color display.  
Strong anti-interference performance: industrial standard III.  
Touch operation, menu with varied contents, easy to understand.  
Multistage menu.  
Multistage login permission settings, easy to manage.  
Real-time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

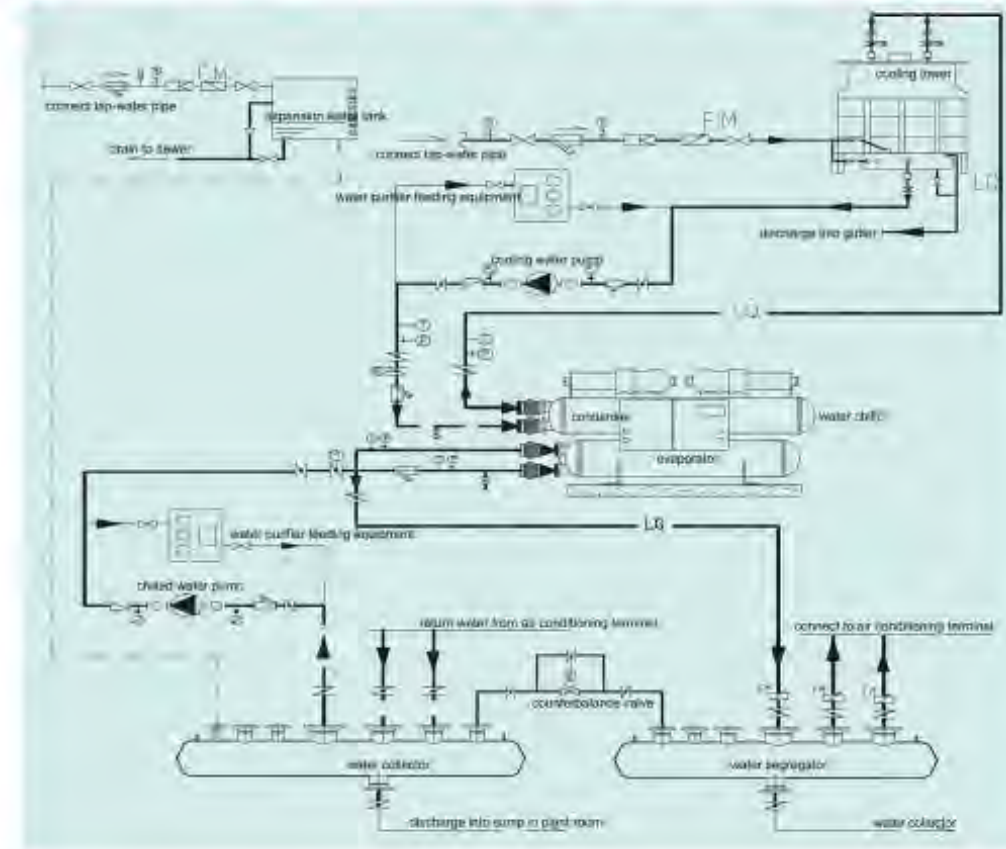
**Advanced intelligent centralized control system**



### Water system pipe connection



### Cooling water filling system flow chart of Water chiller



### R22 series scroll chiller

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

### R22 series water source heat pump scroll chiller

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

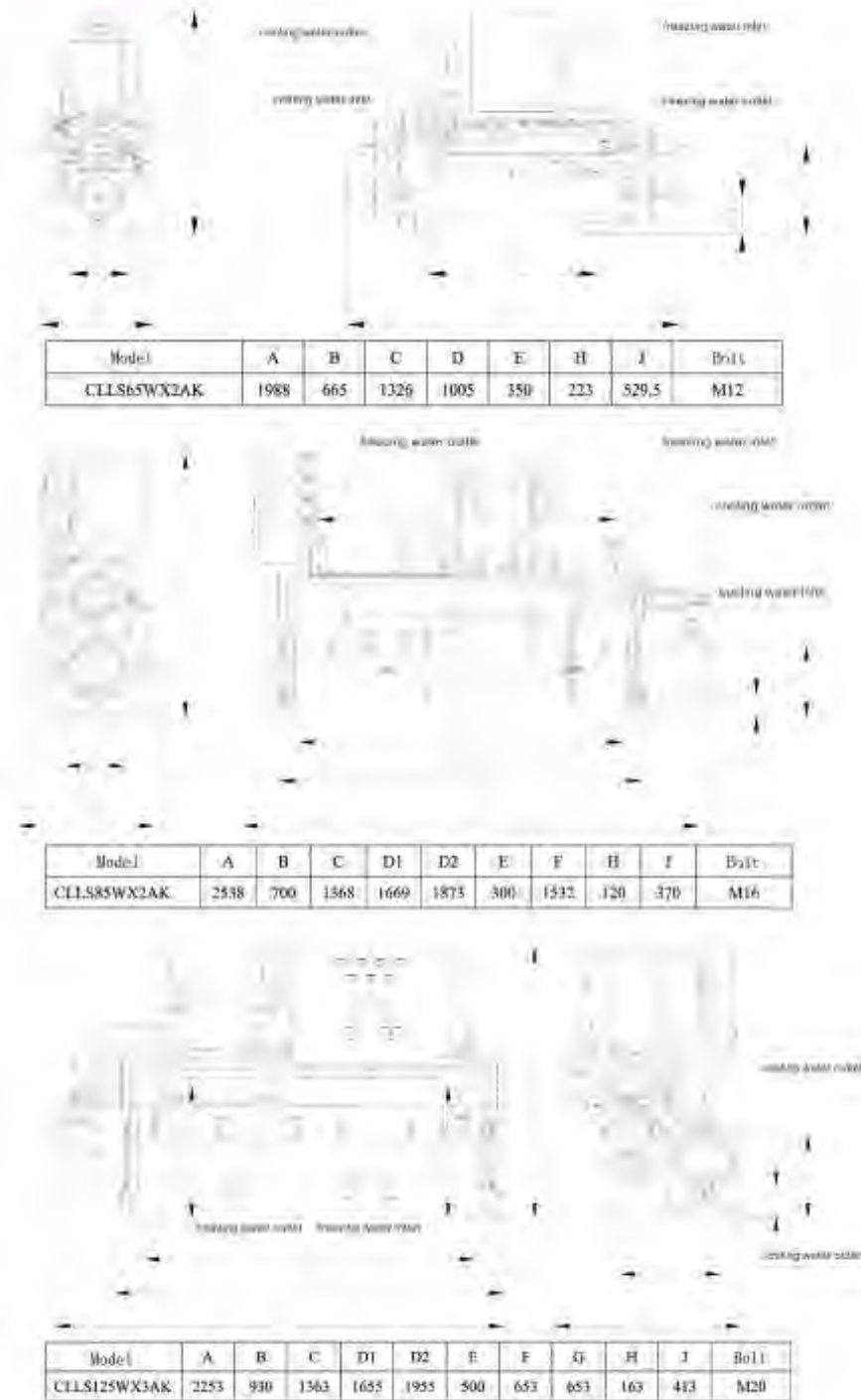
### R134a series scroll chiller

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

### R134a series water source heat pump scroll chiller

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

Unit overall dimensions



Specifications

Model		CLLS65WX2AK	CLLS85WX2AK	CLLS125WX3AK	
Cooling capacity	kW	65	84	123	
Heating capacity	kW				
Power input	kW	13.9	17.2	24.8	
Rated current	A	26.4	32.7	47.1	
EER		4.88	4.88	4.96	
Capacity adjusting	%	50%~100%	50%~100%	33%~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 <sup>3</sup> /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 <sup>3</sup> /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	560	750	
Running weight	kg	550	610	760	

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	CLS300DL1AK	CLS420DL1AK	CLS560DL1AK	CLS620DL1AK
Cooling Capacity	kW	300	420	560
Power Input	kW	65	90	118
Operating Current	A	117.0	162.0	212.4
Model	CLS670DL1AK	CLS760DL1AK	CLS870DL1AK	CLS960DL1AK
Cooling Capacity	kW	670	760	870
Power Input	kW	138	155	175
Operating Current	A	248.4	279.0	315.0
Model	CLS850DL2AK	CLS990DL2AK	CLS1120DL2AK	CLS1340DL2AK
Cooling Capacity	kW	850	990	1120
Power Input	kW	173	198	218
Operating Current	A	311.4	356.4	392.4
Model	CLS1520DL2AK	CLS1740DL2AK	CLS1910DL2AK	CLS2000DL2AK
Cooling Capacity	kW	1520	1740	1910
Power Input	kW	288	324	352
Operating Current	A	518.4	583.2	633.6

**R134a series flooded single screw chiller**

Model	CLS320DL1AKM	CLS380DL1AKM	CLS460DL1AKM	CLS540DL1AKM
Cooling Capacity	kW	320	380	460
Power Input	kW	65.5	77	92.3
Operating Current	A	117.9	138.6	166.1
Model	CLS610DL1AKM	CLS730DL1AKM	CLS830DL1AKM	CLS950DL1AKM
Cooling Capacity	kW	610	730	830
Power Input	kW	117	136	153
Operating Current	A	210.6	244.8	275.4
Model	CLS760DL2AKM	CLS930DL2AKM	CLS1080DL2AKM	CLS1220DL2AKM
Cooling Capacity	kW	760	930	1080
Power Input	kW	146	175	198
Operating Current	A	262.8	315.0	356.4
Model	CLS1340DL2AKM	CLS1470DL2AKM	CLS1690DL2AKM	CLS2000DL2AKM
Cooling Capacity	kW	1340	1470	1690
Power Input	kW	234	252	284
Operating Current	A	421.2	453.6	511.2

**R134a series enclosed single screw water source heat pump chiller**

Model	CLS570RDL1AFD	CLS450RDL1AFD	CLS530RDL1AFD	CLS810RDL1AFD
Cooling Capacity	kW	370	450	530
Heating Capacity	kW	407	495	583
Power Input	kW	64.2	76	88
Operating Current	A	115.6	136.8	158.4
Model	CLS930RDL1AFD	CLS1150RDL2AFD	CLS1440RDL2AFD	CLS1780RDL2AFD
Cooling Capacity	kW	930	1150	1440
Heating Capacity	kW	1023	1205	1504
Power Input	kW	149	173	191
Operating Current	A	268.2	317.4	355.2

**R134a series enclosed single screw chiller**

Model	CLS350DL1AF	CLS420DL1AF	CLS500DL1AF	CLS760DL1AF
Cooling Capacity	kW	350	420	500
Power Input	kW	76	89	100.8
Operating Current	A	136.8	160.2	181.4
Model	CLS880DL1AF	CLS1120DL2AF	CLS1600DL2AF	CLS1750DL2AF
Cooling Capacity	kW	880	1120	1600
Power Input	kW	172	202	303
Operating Current	A	309.6	352.8	545.4

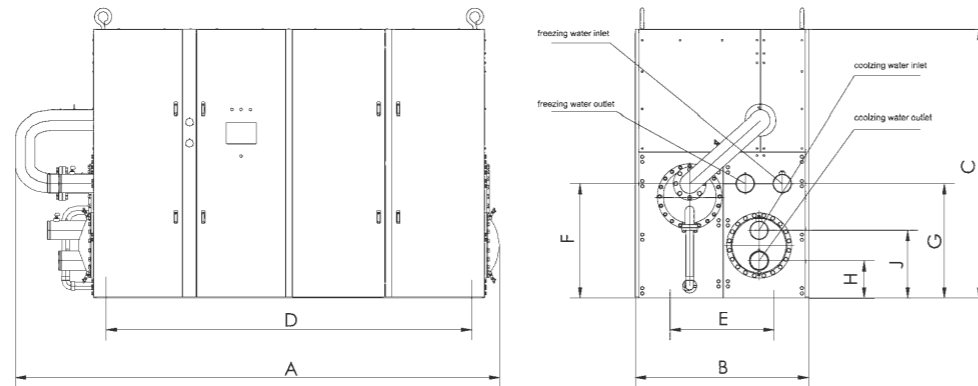
**R134a series dry type single screw water source heat pump chiller**

Model	CLS300RDL1AKD	CLS380RDL1AKD	CLS450RDL1AKD	CLS530RDL1AKD
Cooling Capacity	kW	300	380	450
Heating Capacity	kW	330	418	495
Power Input	kW	54	67	78
Operating Current	A	97.2	120.6	140.4
Model	CLS660RDL1AKD	CLS720RDL1AKD	CLS810RDL1AKD	CLS930RDL1AKD
Cooling Capacity	kW	660	720	810
Heating Capacity	kW	726	792	891
Power Input	kW	111.5	120	133
Operating Current	A	200.7	216.0	239.4
Model	CLS900RDL2AKD	CLS1050RDL2AKD	CLS1200RDL2AKD	CLS1440RDL2AKD
Cooling Capacity	kW	900	1050	1200
Heating Capacity	kW	990	1155	1320
Power Input	kW	146	169	191
Operating Current	A	262.8	304.2	343.8
Model	CLS1620RDL2AKD	CLS1860RDL2AKD	CLS2050RDL2AKD	CLS2300RDL2AKD
Cooling Capacity	kW	1620	1860	2050
Heating Capacity	kW	1762	2046	2255
Power Input	kW	288	324	352
Operating Current	A	518.4	583.2	633.6

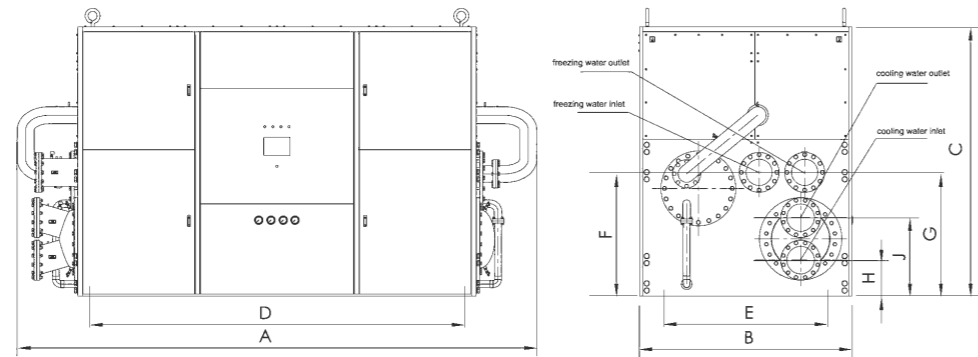
**R134a series flooded single screw water source heat pump chiller**

Model	CLS320RDL1AKDM	CLS370RDL1AKDM	CLS500RDL1AKDM	CLS580RDL1AKDM
Cooling Capacity	kW	320	370	500
Heating Capacity	kW	352	407	550
Power Input	kW	51.5	59	79
Operating Current	A	92.7	106.2	142.2
Model	CLS650RDL1AKDM	CLS780RDL1AKDM	CLS890RDL1AKDM	CLS1020RDL1AKDM
Cooling Capacity	kW	650	780	890
Heating Capacity	kW	715	858	979
Power Input	kW	100.4	119	135
Operating Current	A	180.7	214.2	243.0
Model	CLS820RDL2AKDM	CLS1100RDL2AKDM	CLS1300RDL2AKDM	CLS1420RDL2AKDM
Cooling Capacity	kW	820	1160	1300
Heating Capacity	kW	902	1278	1430
Power Input	kW	127	178	192
Operating Current	A	228.6	320.4	354.6
Model	CLS1560RDL2AKDM	CLS1780RDL2AKDM	CLS2040RDL2AKDM	CLS2300RDL2AKDM
Cooling Capacity	kW	1560	1780	2040
Heating Capacity	kW	1714	1988	2244
Power Input	kW	232	263	299
Operating Current	A	417.6	473.4	538.2

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-Δ	Y-Δ	Y-Δ	
Condenser	Type	closed shell and tube condenser			
	Quantity	1	1	1	
	Pipe diameter	DN	DN125	DN150	DN250
	Water flow	m <sup>3</sup> /h	83.6	164	328
	Water resistance	KPa	58	78	110
Evaporator	Type	Dry type evaporator	Dry type evaporator	Dry type evaporator	
	Quantity	1	1	1	
	Pipe diameter	DN	DN125	DN150	DN250
	Water flow	m <sup>3</sup> /h	68.3	138	276
	Water resistance	KPa	73	85	88
Refrigerant	Type	R134a	R134a	R134a	
	Charge	kg	95	205	205x2
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
Power Input	kW	33	39.4	46
Operating Current	A	58.7	70.1	81.9
Model	CLLS320SL1AK	CLLS370SL1AK	CLLS460SL1AK	CLLS520SL1AK
Cooling Capacity	kW	320	370	460
Power Input	kW	69.3	80	99
Operating Current	A	123.4	142.4	176.2
Model	CLLS610SL1AK	CLLS660SL1AK	CLLS700SL1AK	CLLS750SL1AK
Cooling Capacity	kW	610	660	700
Power Input	kW	126	138	145
Operating Current	A	226.8	248.4	261
Model	CLLS810SL1AK	CLLS880SL1AK	CLLS800SL2AK	CLLS850SL2AK
Cooling Capacity	kW	810	880	800
Power Input	kW	166	179	164
Operating Current	A	298.8	322.2	298.5
Model	CLLS900SL2AK	CLLS980SL2AK	CLLS1100SL2AK	CLLS1120SL2AK
Cooling Capacity	kW	900	980	1100
Power Input	kW	183	198	218
Operating Current	A	333.1	356.4	392.4
Model	CLLS1200SL2AK	CLLS1340SL2AK	CLLS1400SL2AK	CLLS1510SL2AK
Cooling Capacity	kW	1200	1340	1400
Power Input	kW	235	260	270
Operating Current	A	427.7	473.2	491.4
Model	CLLS1630SL2AK	CLLS1760SL2AK	CLLS1870SL2AK	CLLS2000SL2AK
Cooling Capacity	kW	1630	1760	1870
Power Input	kW	308	325	342
Operating Current	A	569.8	601.3	632.7

### R134a series fluided twin screw water source heat pump chiller

Model	CLLS210RSL1AKDM	CLLS280RSL1AKDM	CLLS380RSL1AKDM	CLLS450RSL1AKDM
Cooling Capacity	kW	210	280	380
Heating Capacity	kW	231	308	418
Power Input	kW	34	45	60.5
Operating Current	A	61.2	81.0	108.9
Model	CLLS520RSL1AKDM	CLLS600RSL1AKDM	CLLS660RSL1AKDM	CLLS700RSL1AKDM
Cooling Capacity	kW	520	600	660
Heating Capacity	kW	572	660	726
Power Input	kW	81.5	93.4	102.4
Operating Current	A	146.7	168.1	184.3
Model	CLLS770RSL1AKDM	CLLS960RSL1AKDM	CLLS1120RSL1AKDM	CLLS1280RSL1AKDM
Cooling Capacity	kW	770	960	1120
Heating Capacity	kW	847	1056	1232
Power Input	kW	118	146	169
Operating Current	A	212.4	262.8	304.2
Model	CLLS760RSL2AKDM	CLLS830RSL2AKDM	CLLS910RSL2AKDM	CLLS1000RSL2AKDM
Cooling Capacity	kW	760	830	910
Heating Capacity	kW	836	913	1001
Power Input	kW	118	128	139
Operating Current	A	212.4	230.4	250.2
Model	CLLS110RSL2AKDM	CLLS1200RSL2AKDM	CLLS1320RSL2AKDM	CLLS1380RSL2AKDM
Cooling Capacity	kW	1110	1200	1320
Heating Capacity	kW	1221	1320	1452
Power Input	kW	168	181	198
Operating Current	A	302.4	325.8	356.4
Model	CLLS1540RSL2AKDM	CLLS1710RSL2AKDM	CLLS1880RSL2AKDM	CLLS2000RSL2AKDM
Cooling Capacity	kW	1540	1710	1880
Heating Capacity	kW	1694	1881	2068
Power Input	kW	228	251	275
Operating Current	A	410.4	451.8	495

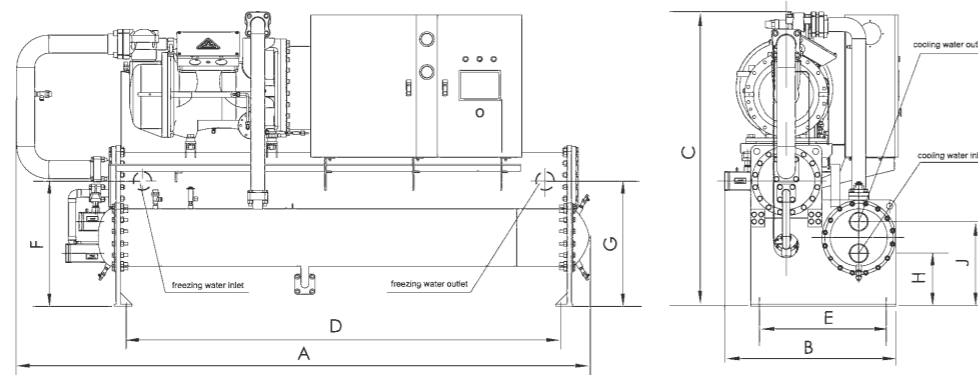
### R134a series twin screw water source heat pump chiller

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

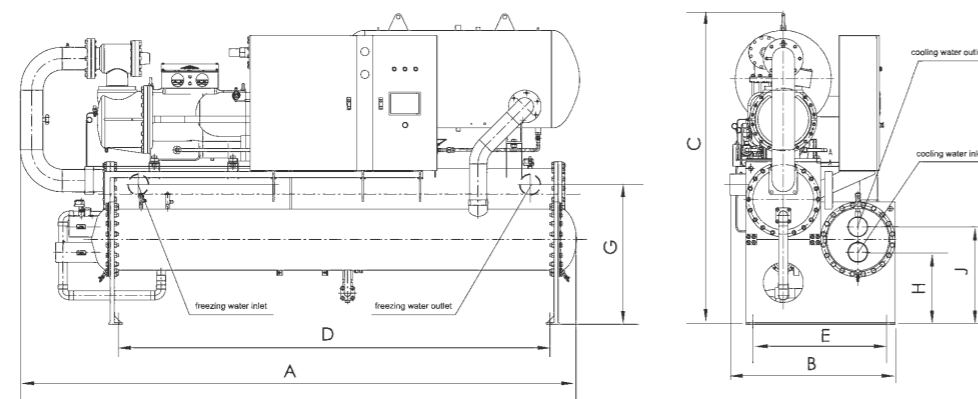
### R134A series falling film water source heat pump chiller

Model	CLLS210RSL1AKDJ	CLLS280RSL1AKDJ	CLLS380RSL1AKDJ	CLLS450RSL1AKDJ
Cooling Capacity	kW	210	280	380
Heating Capacity	kW	231	308	418
Power Input	kW	34	45	60.5
Operating Current	A	61.2	81.0	108.9
Model	CLLS520RSL1AKDJ	CLLS600RSL1AKDJ	CLLS660RSL1AKDJ	CLLS700RSL1AKDJ
Cooling Capacity	kW	520	600	660
Heating Capacity	kW	572	660	726
Power Input	kW	81.5	93.4	102.4
Operating Current	A	146.7	168.1	184.3
Model	CLLS770RSL1AKDJ	CLLS960RSL1AKDJ	CLLS1120RSL1AKDJ	CLLS1280RSL1AKDJ
Cooling Capacity	kW	770	960	1120
Heating Capacity	kW	847	1056	1232
Power Input	kW	118	146	169
Operating Current	A	212.4	262.8	304.2
Model	CLLS760RSL2AKDJ	CLLS830RSL2AKDJ	CLLS910RSL2AKDJ	CLLS1000RSL2AKDJ
Cooling Capacity	kW	760	830	910
Heating Capacity	kW	836	913	1001
Power Input	kW	118	128	139
Operating Current	A	212.4	230.4	250.2
Model	CLLS110RSL2AKDJ	CLLS1200RSL2AKDJ	CLLS1320RSL2AKDJ	CLLS1380RSL2AKDJ
Cooling Capacity	kW	1110	1200	1320
Heating Capacity	kW	1221	1320	1452
Power Input	kW	168	181	198
Operating Current	A	302.4	325.8	356.4
Model	CLLS1540RSL2AKDJ	CLLS1710RSL2AKDJ	CLLS1880RSL2AKDJ	CLLS2000RSL2AKDJ
Cooling Capacity	kW	1540	1710	1880
Heating Capacity	kW	1694	1881	2068
Power Input	kW	228	251	275
Operating Current	A	410.4	451.8	495

Unit overall dimensions



Model CLLS	A	B	C	D	E	F	G	H	J	cooling water/ freezing water connector
210SL1AK	3257	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

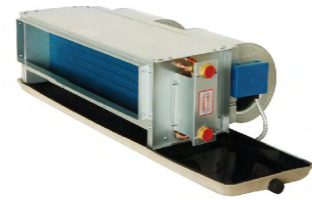
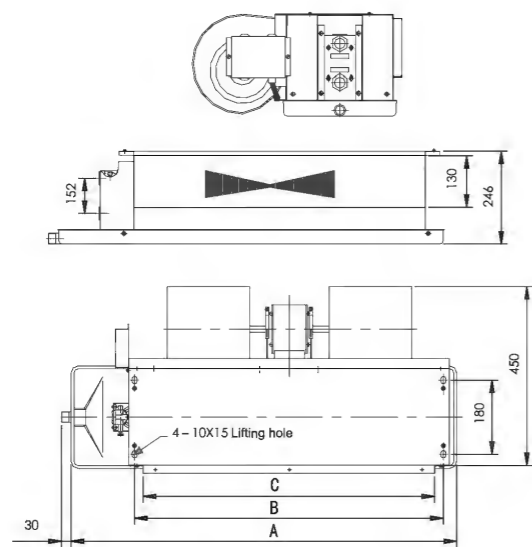
Model		CLLS210RSL1AK	CLLS400RSL1AK	CLLS790RSL1AK	
Cooling capacity	kW	210	400	790	
Heating capacity	kW	226	428	930	
Power input	kW	49.1	88	165	
Rated current	A	94	148	278	
EER		4.28	4.54	4.79	
Capacity adjusting	%	25%、50%、75%、100%			
Compressor	Type	semi-hermetic twin screw			
	Quantity	1	1	1	
	startup mode	Y-Δ	Y-Δ	Y-Δ	
Condenser	Type	closed shell and tube condenser			
	Quantity	1	1	1	
	Pipe diameter	DN	DN100	DN125	DN150
	Water flow	m <sup>3</sup> /h	44.5	83.6	164
Water resistance	KPa	53	58	82	
Evaporator	Type	Dry type evaporator	Dry type evaporator	Dry type evaporator	
	Quantity	1	1	1	
	Pipe diameter	DN	DN100	DN125	DN150
	Water flow	m <sup>3</sup> /h	36	68.3	136
Water resistance	KPa	45	73	80	
Refrigerant	Type	R134a	R134a	R134a	
	Charge	kg	50	95	200
Net weight	kg	1450	2700	4800	
Running weight	kg	1600	2900	5050	

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

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

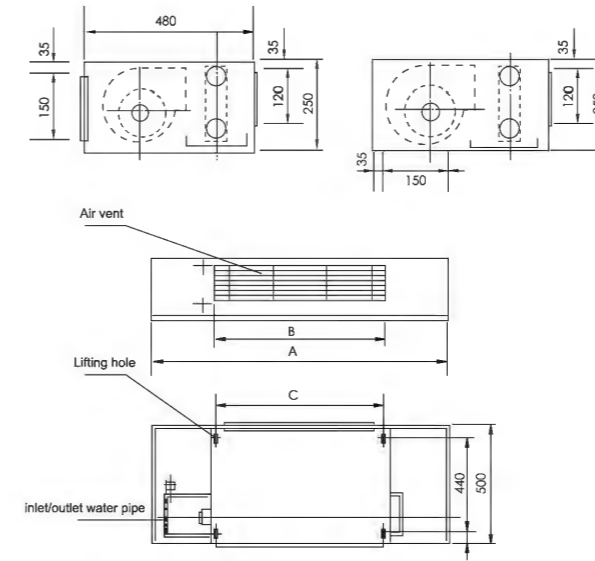
- Energy efficiency rating is determined according to GB19577-2004
- The particular parameters are subject to the nameplate of unit.

Horizontal concealed FP-WA



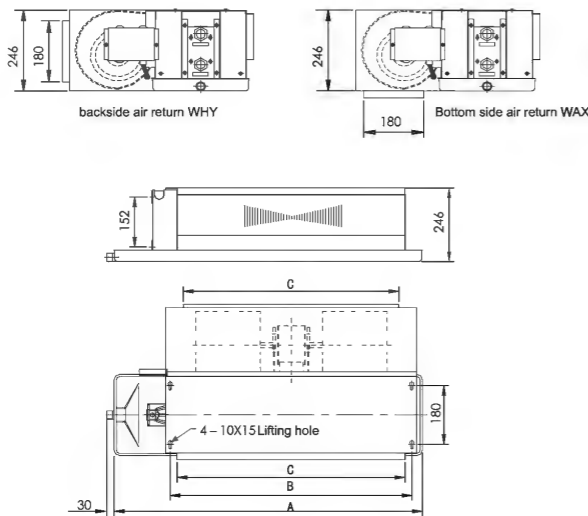
Model	A	B	C	Weight kg
FP-34	840	520	480	13
FP-51	940	620	580	16.5
FP-68	1040	720	680	18
FP-85	1140	820	780	19
FP-102	1240	920	880	20.5
FP-136	1540	1220	1180	24
FP-170	1740	1420	1380	28
FP-204	1840	1560	1520	28
FP-238	2040	1760	1720	29.5

Horizontal open-mounted FP-WM



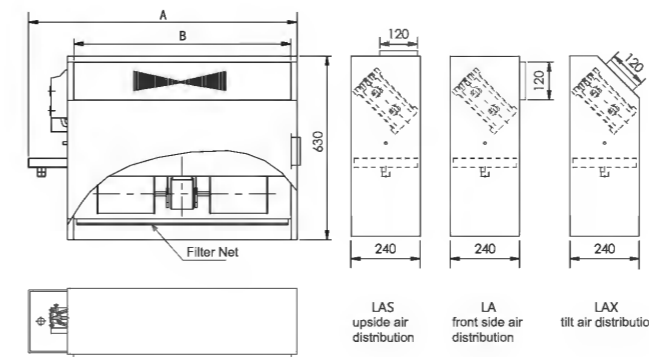
Model	A	B	C
FP-34	900	480	520
FP-51	1100	580	620
FP-68	1100	680	720
FP-85	1200	780	820
FP-102	1300	880	920
FP-136	1600	1180	1220
FP-170	1800	1380	1420
FP-204	1940	1520	1560
FP-238	2140	1720	1760

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

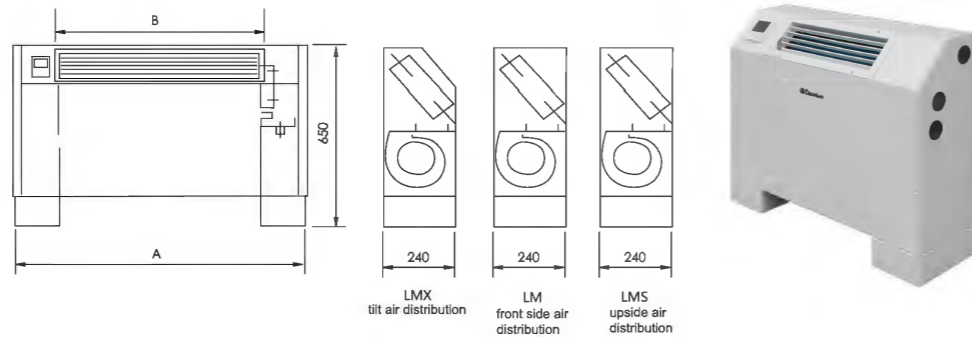
Vertical concealed FP-LA



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

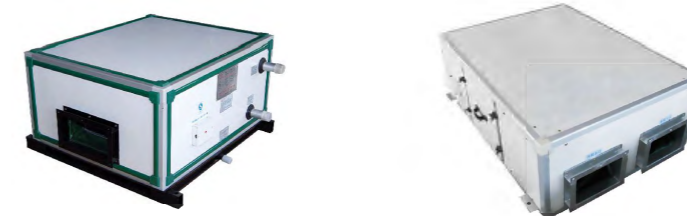
Air vent, Service Point



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 <sup>3</sup> /h	H	340	510	680	850	1020	1380	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	3290	4120	4950	6550	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	4630	5800	6950	9260	11440	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
low static pressure unit 12Pa	water resistance	20	20	30	30	30	40	40	40	40
	W	37	52	62	76	96	134	152	189	228
high static pressure unit	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
Pipe size	inlet water pipe	3/4" inner grooved								
	outlet water pipe	3/4" external grooved								

Air Handling Unit



Air Valve

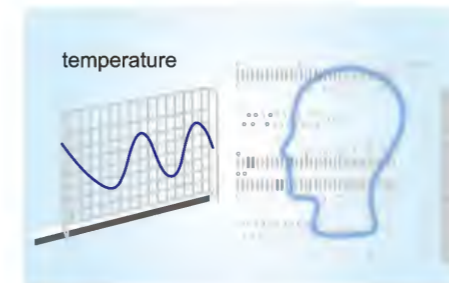




Enclosure Air Conditioners

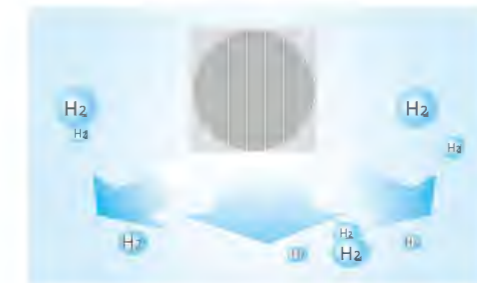
**Intelligent Temperature Control**

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.



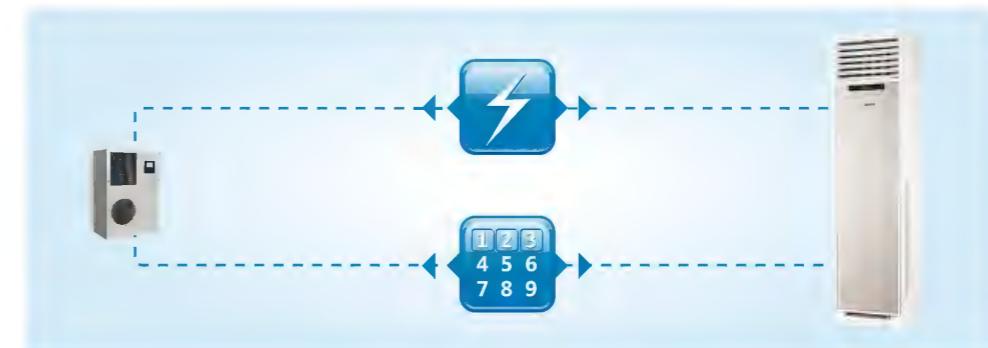
**Automatic discharge the hydrogen**

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 manualled 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 firework situation happens, the smoke-sense alarming signal 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 from-free environmental protection refrigerants instead of traditional refrigerants.  
Green Low carbon, More environmental protection.



**Minialurization designing, energy saving.**

Minialurization and exquisite designing, easy to install. Specificly 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	850
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	398x200x493	398x200x493	455x188x648	455x188x648	474x202x1150	1174x202x1150
Packing Dimension (DxWxH)	mm	477x321x550	477x321x550	527x321x705	527x321x705	510x267x1240	510x267x1240
Loading Quantity (set)	2000KVA	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 this form only for reference, and the specific parameter shall refer to product nameplate.
- The applicable area of air conditioner is related to room temperature, insulation level, height of the building, the size and amount of the doors and windows, so that the applicable area is just for reference.
- Chunite 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 specification and product nameplate.



Dehumidifier

**Strong dehumidifying capability**

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



**Intelligent humidity regulation**

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



**Manual/Auto operating**

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



**High efficient operation**

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

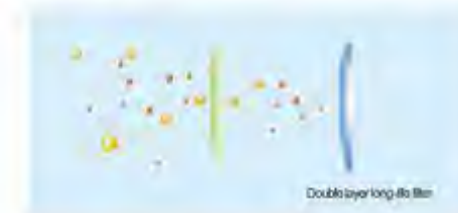
**Low temperature dehumidifying**

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



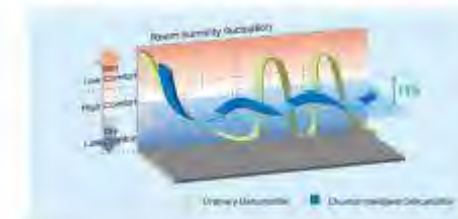
**Double layer long-life filter**

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



**Accurate dehumidifying performance**

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



**High reliability**

Upholding the 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	m <sup>3</sup> /h	850	1900	860	1900
Charge	(Kg)	0.9(R22)	1.65(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)	1650	2800	1660	2800
Rated Current Input	(A)	8.5	9.75	8.5	9.75
Operation Temperature	°C	5-32	5-32	18-32	18-32
Net (Gross) Weight	(Kg)	58/60	100/105	58/60	100/105
Net Dimensions	(DxWxH mm)	516x398x946	600x400x1800	516x398x946	600x400x1800
Rackling Dimensions	(DxWxH mm)	598x455x1000	680x495x1950	598x455x1000	680x495x1950
Applicable Area	m <sup>2</sup>	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°C, wet-bulb temperature 21.2°C; max load condition: dry-bulb tempera- ture 32.0°C, wet-bulb tempera- ture 23.0°C; low-temperature condi- tion: dry-bulb temperature 5.0°C, wet-bulb temperature 2.1°C		Dry-bulb temperature 27.0°C, wet-bulb temperature 21.2°C; max load condition: dry-bulb tempera- ture 32.0°C, wet-bulb tempera- ture 23.0°C; low-temperature condi- tion: dry-bulb temperature 18.0°C, wet-bulb temperature 13.5°C	

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