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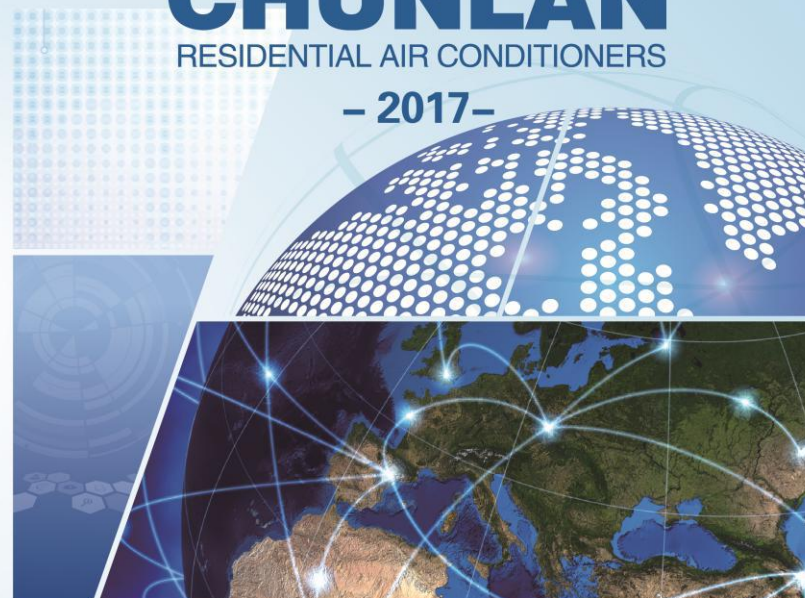
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# CHUNLAN

RESIDENTIAL AIR CONDITIONERS

– 2017–





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## Chunlan Introduction

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

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

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

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

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

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



## Seven Industries



## SINCE 1973

### Chunlan Air Conditioner Industry



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

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

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

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

## 80,000,000


### Brief history of Chunlan Air Conditioner

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

### CERTIFICATES



## Advanced Technology



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

**Extremely silent**

Optimal design of outlet

Fan leaf shape optimization

Quiet and efficient motor

SILENCER double mule technology

Innovative air outlet duct design of Chunlan air conditioner, can more effectively 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**

Model	Normal Standard	Chunlan	Normal Standard
6000W	55dB(A)	48dB(A)	55dB(A)
3500W	50dB(A)	45dB(A)	50dB(A)
2500W	45dB(A)	42dB(A)	45dB(A)
1800W	40dB(A)	38dB(A)	40dB(A)

### 180° vector DC inverter control technology



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

### System balance technology

After the objective, accurate calculation and analysis on a number of technical and economic evaluation factors, our engineer built fully quantitative mathematical model to achieve a comprehensive balance based on scientific comparison and optimization. The balance include the balance of indoor and outdoor heat exchanger, the balance between compressor and system, the balance between wind field and system, the balance between the system 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 pats, adapts W-shape high quality internal thread copper tubes for each set of air conditioner, which can further improve the efficiency of heat exchange.

**Blue multi-stage evaporator**

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

## Pretty Appearance

### Minimalist aesthetic appearance

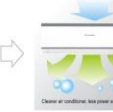
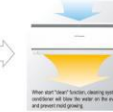
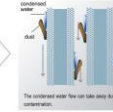
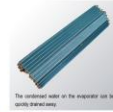
White as pearl, mellow perception, personality lines sketch out the charming radiance, minimalist aesthetic design, artistically natural, perfectly fit the minimalist approach to life that you advocate.



## Healthy Concerns

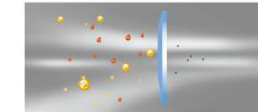
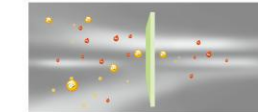
### Auto self-cleaning heat exchanger

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.



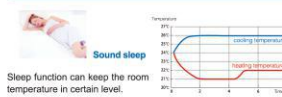
### High-density air filters

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



### 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 2017

BX DC Inverter		Btu/h						
	A++	9K	12K	18K	24K			
AZ1 series								
		9K	12K	18K	24K			
AZ3 series								
	High EER	7K	9K	12K	18K	22K	24K	30K
		9K	12K	18K	24K			
	T3	12K		18K	24K		30K	
RB series								
		7K	9K	12K	18K	22K	24K	
	T3	12K		18K	24K			
VJ1 series								
		7K	9K	12K	18K	22K	24K	
	T3	12K		18K	24K			
VJ3 series								
		7K	9K	12K	18K	22K	24K	
	T3	12K		18K	24K			
VJ series								
		9K	12K	18K	24K	30K		
	T3	18K			24K			
VFA series								
		9K	12K	18K				



Wall Split Air Conditioners



## Chunlian 6th generation inverter technology

Unique PAM180 vector DC inverter control technology  
Inverter system innovation technology  
Intelligent Renesas control chip.  
DC high end configuration, multi channel precise adjustment

## Chunlian intelligent comfy function

e intelligent internet of things, control cooling/heating at anywhere  
Quintuple intelligence, e fashion life.  
Healthy air technology  
2nd generation super silencer technology

## e star sky, infinite dream

Chunlian e star sky intelligent air conditioner with internet of things function, which adopts Acrylic panel and IMID high end decorative printing technology. The unique multi-arc shaped luxury panel is transparent and gorgeous like crystal. Shining starlight scatter above it and makes a perfect scene.

Hidden white light highlighted display.



## Intelligent internet of things Free enjoyment



The unique e intelligent internet of things Chunlian air conditioner, seamlessly connect air conditioner, service platform and customer together to create an intelligent interactive system via internet. It is a breakthrough to the time and space limit, reinvention to air conditioner, customer can freely enjoy comfortable living.

## e intelligent internet of things App



The richly developed e intelligent and intelligent App supports IOS and Android system, with strong compatibility and stable operation. Using application code design, simple and artistic interface, it occupies less resource, while providing high operating efficiency.

## e intelligent long distance control



The long distance control can easily solve many practical problems. As long as there are network service, the air conditioner at home is at your control, no matter where you are, press one key to send instructions, you can easily control air conditioners at home from far away and enjoy what you need.

## e online intelligent diagnosis



The unique online diagnosis function, by monitoring the running status of air conditioner to detect potential problems or failure to advance, then automatically sending a maintenance warning. In the field stage, Chunlian maintenance personnel will provide timely quality services according to user's different requirements.

## e intelligent customization.



Users can set the air conditioner into the most comfortable running mode according to their own needs and preferences, with precise and healthy personalized sleeping temperature, and speed, sleep mode and so on, the air conditioner can bring you extreme experience of sleep.

## Intelligent environment adaptive



Climate varies a lot across the country, the air conditioner can automatically adjust the operating parameters according to the difference outdoor temperature, and making sure it is in the most comfortable and most economical running mode, including cooling, heating, dehumidifying, deheating, and other functions.

## e intelligent upgrade and optimization



The server has multiple service resources which are updated on a regular basis. Users can use the server platform to upgrade the air conditioner's time, so as to realize air conditioner function update, performance improvement to create a more comfortable, convenient and suitable for users.

## Intelligent RENESAS Chips



As the brain of air conditioners, chips are the core control components which decide the performance of air conditioners. Chunlian established a chip R&D lab by working together with Renesas Japan to develop the higher-performance 32-bit vector control chips. By intelligent vector control technology, efficiency is greatly increased, while precise adjustment to multiple channels can ensure the high efficiency and stability of system running.

Full DC Advanced Configuration  
Multiple Channels Precise Adjustment

Full DC Inverter Rotary Compressor



DC indoor motor



DC outdoor motor



DC electronic expansion valve

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

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

2nd Generation Patented Super Silencing Technology  
Decrease the noise into ultimate

New developed Chunlian Inverter Silence Doctor air conditioner is new generation super silencing air conditioner. It upgrades the patented super silencing technology into second generation and decreases the system noise into ultimate.



Super heating in low temperature



Heat exchanger self-cleaning



Controllable electric auxiliary heating



Backlight remote control



Independent digital display button



Comfortable sleep



Healthy air technology



PM2.5



Controllable Power key

Performance		Model	CS-08R/AX-1	CS-09R/AX-1	CS-11R/AX-1	CS-12R/AX-1
Refrigerant		R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	8000	9000	11000	12000	
Heating Capacity	Btu/h	8600	9400	12000	13000	
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	
Rated Cooling Power Input	W	670	725	932	1020	
Rated Heating Power Input	W	735	795	1050	1130	
Rated Cooling Operating Current	A	3.1	3.4	4.3	4.7	
Rated Heating Operating Current	A	3.4	3.7	4.8	5.2	
Air Flow Volume(Indoor)	m³/h	500	500	600	640	
Noise Level	(dB(A))	Indoor	22-35	22-35	24-38	24-39
		Outdoor	≤48	≤50	≤51	≤51
Net Dimensions	W×D×H	Inside (mm)	820×210×300	820×210×300	881×213×312	881×213×312
		Outside (mm)	650×250×506	650×250×506	760×259×537	760×259×563
Net Weight	(kg)	Indoor/Outdoor	10.3/25.5	10.3/28.5	12/32	12/34
		Indoor (mm)	940×300×400	940×300×400	1000×303×412	1000×303×412
Packing Dimensions	W×D×H	Indoor (mm)	940×300×400	940×300×400	1000×303×412	1000×303×412
		Outdoor (mm)	790×352×565	790×352×565	896×352×600	896×352×600
Gross Weight	(kg)	Indoor/Outdoor	12.5/29.5	12.5/33.5	13.6/36	13.6/39
Pipe Size	(inch)	Liquid	1/4"	1/4"	1/4"	1/4"
		Gas	3/8"	3/8"	1/2"	1/2"
Applicable Area	m²		10-15	12-17	15-22	16-25
Loading Quantity	(set)		105/220/255	105/220/255	90/185/215	90/185/215

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## Wall Split Series

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



A<sup>++</sup>  
BX

#### Artistic modeling

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

#### Hidden LED

The hidden dynamic LED display conveys power and intelligent.



### Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Heating anti-cold design



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost



### Specification 【DC Inverter】

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#### High efficient DC inverter compressor

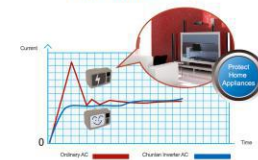


Adopting efficient DC inverter compressor, whose rotor is rare earth permanent magnets which runs through magnetic field interaction of rotor after electrifying, achieves stepless speed regulation and more precise control to ensure energy efficient of air conditioning core components.

#### Seven peculiar compressor technology

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

#### Soft-start technology



The starting current of ordinary air conditioner is five times higher than the normal operating state, which greatly influence and interference grid. Chunlan inverter air conditioner adopts low-frequency start-up mode to allow start up current smoothly transit to the normal operation of the current state.

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

#### Blue multi-stage evaporator



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

Performance	Model	CS-09R/BXBPW	CS-12R/BXBPW	CS-18R/BXBPW	CS-24R/BXBPW
Refrigerant		R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000(4200~11000)	12000(4400~14000)	18000(6200~20900)	24000(9100~26900)
Heating Capacity	Btu/h	10000(2900~11500)	13000(4100~14600)	19000(4700~23000)	26000(5500~30000)
Power Supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
SEER	W/W	6.1	6.1	6.1	6.1
Cooling Energy Rate		A++	A++	A++	A++
SCOP	W/W	4.0	4.0	4.0	4.0
Heating Energy Rate		A+	A+	A+	A+
Air Flow Volume (indoor)	m³/h	520	620	950	1150
Noise Level (dB(A))					
	Indoor	42/37/32/27	42/37/32/27	46/39/35/30	48/42/39/32
	Outdoor	52	52	57	62
Net Dimensions (WxDxH)					
	Inside(mm)	780x306x213	860x306x213	1040x316x243	1040x316x243
	Outside (mm)	760x537x259	760x537x259	760x663x259	823x646x275
Net Weight (kg)					
	Indoor/Outdoor	9.5/30	10.5/32	14/39	15/50
Packing Dimensions (WxDxH)					
	Indoor (mm)	845x376x283	925x376x283	1105x386x313	1105x386x313
	Outdoor (mm)	896x600x352	896x600x352	896x712x352	980x730x390
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"	1/2"	1/2"	5/8"
Applicable Area	m²	12~17	16~25	20~35	30~50
Loading Quantity (set)		20/40/40/HQ	106/221/252	105/214/241	84/174/186
					67/141/162

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

- The data listed in the form only for reference, and the specific parameter shall refer to product nameplates.
- The applicable area of air conditioner is related to room orientation, insulation level, height of the building, the size and amount of the doors and windows, so that the applicable area is just for reference.
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**R410A DC Inverter(A+ Class)  
Complying With New ErP Standard**



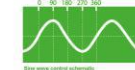
**Specification 【ON-OFF】**

**International leading vector control chip**



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

**180° vector DC inverter control technology**



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

**CFC-free R410A environmental refrigerant**



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



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



Excellent thermal performance of the eco-friendly refrigerant R410A can generate more powerful cooling and heating capacity.



R410A is the new environmental friendly refrigerant all over the world, which is clean, eco-friendly, non-flammable. It is widely used in many countries.

Performance		Model	CS-09R/AZ3BPW-2	CS-12R/AZ3BPW-2
Refrigerant			R410a	R410a
Cooling Capacity	Btu/h		9000(2700~10300)	12000(3300~14000)
Heating Capacity	Btu/h		9550(2200~12000)	13500(3250~16000)
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		660(140~950)	970(190~1370)
Rated Heating Power Input	W		760(130~1100)	1280(170~1700)
Rated Cooling Operating Current	A		3.1(0.7~4.5)	4.5(0.9~6.5)
Rated Heating Operating Current	A		3.6(0.6~5.2)	5.9(0.8~8.0)
Air Flow Volume(indoor)	m³/h		540	590
Noise Level (dB(A))		Indoor	32/34/36/38	30/33/36/39
		Outdoor	50	51
Net Dimensions W×D×H		Inside (mm)	820x190x274	820x190x274
		Outside (mm)	760x259x537	760x259x537
Net Weight (kg)		Indoor/Outdoor	9.3/30	9.3/33
Packing Dimensions W×D×H		Indoor (mm)	940x280x370	940x280x370
		Outdoor (mm)	896x352x600	896x352x600
Gross Weight (kg)		Indoor/Outdoor	11.6/35	11.6/38
Pipe Size (inch)		Liquid	1/4"	1/4"
		Gas	3/8"	3/8"
Applicable Area	m²		12-17	16-25
Loading Quantity (set)		20'/40'/40'HQ	98/210/235	98/210/235

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

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## Wall Split Series

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



**A**  
VEA



**A**  
AY1



**A**  
AY2



**A**  
AY3



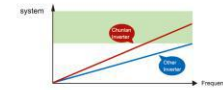
## Specification 【DC Inverter】

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### Chunlan innovative technologies

#### Inverter potential optimization technology

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



#### System balance technology

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



System balance technology

#### Modal analysis technology

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



Performance		Model			
		CS-09R/VEABPWa-2	CS-12R/VEABPWa-2	CS-09R/AY1BPWb-2	CS-12R/AY1BPWb-2
		R410a	R410a	R410a	R410a
Refrigerant		R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000(2700~10300)	12000(3300~14000)	9000(2700~10300)	12000(3300~14000)
Heating Capacity	Btu/h	9550(2200~12000)	13500(3250~16000)	9550(2200~12000)	13500(3250~16000)
Power Supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	660(140~950)	970(190~1370)	660(140~950)	970(190~1370)
Rated Heating Power Input	W	760(130~1100)	1280(170~1700)	760(130~1100)	1280(170~1700)
Rated Cooling Operating Current	A	3.1(0.7~4.5)	4.5(0.9~6.5)	3.1(0.7~4.5)	4.5(0.9~6.5)
Rated Heating Operating Current	A	3.6(0.6~5.2)	5.9(0.8~8.0)	3.6(0.6~5.2)	5.9(0.8~8.0)
Air Flow Volume (indoor)	m³/h	540	590	570	640
Noise Level (dB(A))					
	Indoor	32/34/36/38	30/33/36/39	31/36/37/40	33/36/39/42
	Outdoor	50	51	50	51
Net Dimensions (WxDxH)					
	Inside(mm)	760x180x260	840x180x260	780x201x274	860x201x274
	Outside (mm)	760x259x537	760x259x537	760x259x537	760x259x537
Net Weight (kg)					
	Indoor/Outdoor	9.3/30	9.3/33	9.3/30	10.8/33
Packing Dimensions (WxDxH)					
	Indoor (mm)	875x265x340	955x265x340	850x280x355	930x280x355
	Outdoor (mm)	896x344x600	896x344x600	896x352x600	896x352x600
Gross Weight (kg)					
	Indoor/Outdoor	11.6/35	11.6/38	11.6/35	13.3/38
Pipe Size (inch)					
	Liquid	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	3/8"	3/8"	3/8"
Applicable Area	m²	12~17	16~25	12~17	16~25
Loading Quantity (set)		20/40/40/HQ	98/210/265	100/220/245	98/210/235

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

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A



B

### CFC-free R290 environmental refrigerant



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



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



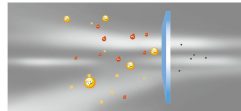
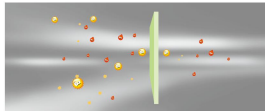
Excellent thermal performance of the eco-friendly refrigerant R290 can generate more powerful cooling and heating capacity.



R290 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.



### More environmental protection ODP(Ozone depletion potential):0 GWP(Global warming potential):3

R290 is also called propane, belongs to the hydrocarbon refrigerants. It has no destruction to the ozone layer, also the greenhouse effect also is very small, since its GWP value is as low as only 3, while R410a refrigerant has a GWP value at 1890. It is the most environmental protection refrigerants. As a kind of natural hydrocarbon medium, the critical pressure of R290 is low, it has a high latent heat of evaporation and good environmental protection and thermal performance.

### Less energy consumption

With the excellent thermodynamic feature of R290 refrigerant, air conditioner system charged with R290 can achieve much higher EER comparing with R410a refrigerant

### High Efficient R290a Compressor



International brand 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



Chunlian, 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



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

### Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Anti Cool Air Function



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost

Performance		Model		CS-09UAZ3BPdWb-2	CS-12RUAZ3BPdWb-2	CS-09RUAZ3Wb-0	CS-12RUAZ3Wb-0
Refrigerant		R290		R290	R290	R290	R290
Cooling Capacity	Btu/h	9000 (2700~11300)		12000 (3300~14000)	9000	12000	13150
Heating Capacity	Btu/h	9550 (2200~12000)		13150 (3250~16000)	9550	13150	13150
Power supply	Ph, V~, Hz	1, 220, 50		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	678 (140~950)		950 (190~1370)	678	950	950
Rated Heating Power Input	W	745 (130~1100)		1045 (170~1700)	745	1045	1045
Rated Cooling Operating Current	A	3.2 (0.7~4.5)		4.4(0.9~6.5)	3.2	4.4	4.4
Rated Heating Operating Current	A	3.5 (0.8~5.2)		4.9(0.8~8.0)	3.5	4.9	4.9
Air Flow Volume(indoor)	m³/h	540		590	540	590	590
Noise Level	(dB(A))	Indoor		32/34/36/38	30/33/36/39	32/34/36/38	30/33/36/39
		Outdoor		50	51	50	51
Net Dimensions	W×D×H	Inside (mm)		820X190X274	820X190X274	820X190X274	820X190X274
		Outside (mm)		760X259X537	760X259X537	760X259X537	760X259X537
Net Weight	(kg)	Indoor/Outdoor		9.3/30	9.3/33	9.3/30	9.3/33
		Indoor (mm)		940X280X370	940X280X370	940X280X370	940X280X370
Packing Dimensions	W×D×H	Indoor (mm)		896X352X600	896X352X600	896X352X600	896X352X600
		Indoor/Outdoor		11.6/35	11.6/38	11.6/35	11.6/38
Gross Weight	(kg)	Liquid		1/4	1/4	1/4	1/4
		Gas		3/8	3/8	3/8	3/8
Applicable Area	m²	12~17		16~25	12~17	16~25	16~25
Loading Quantity	(set)	20/40/40/HQ		98/210/235	98/210/235	98/210/235	98/210/235

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## R410A ON/OFF Universal



AZ3



AZ3



VJ1



VJ3



RB



## Specification 【ON-OFF】

Performance	Model	CS-07R/VJAZ3W-5	CS-09R/VJAZ3W-5	CS-12R/VJAZ3W-5	CS-18R/VJAZ3W-5	CS-22R/VJAZ3W-5	CS-24R/VJAZ3W-5	CS-30R/VJAZ3W-5
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	7000	9000	12000	18000	22000	24000	30000
Heating Capacity	Btu/h	7000	9000	12000	18000	22000	24000	30000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	780	880	1080	1600	2000	2400	2980
Rated Heating Power Input	W	790	890	1090	1600	2000	2400	2980
Rated Cooling Operating Current	A	3.6	4.1	4.9	7.0	9.3	11.3	13.7
Rated Heating Operating Current	A	3.4	3.9	4.5	7.0	9.3	11.3	13.7
Air Flow Volume(Indoor)	m³/h	435	500	580	850	1050	1100	1300
Noise Level (dB(A))	Indoor	28/32/34/37	28/32/34/37	30/33/36/40	33/38/43/46	42/45/48/51	42/45/48/51	42/45/48/51
	Outdoor	49	51	52	57	60	60	60
Net Dimensions W×D×H	Indoor (mm)	820×180×274	820×180×274	870×180×274	870×180×283	900×211×285	1100×211×320	1100×211×320
	Outside (mm)	650×250×406	650×250×406	700×259×537	700×259×537	823×275×648	823×275×648	950×310×745
Net Weight (kg)	Indoor/Outdoor	7.7/3.5	7.7/3.5	8.1/3.0	11.8/3.7	13.4/4.0	13.4/4.0	16.8/4.0
Packing Dimensions W×D×H	Indoor (mm)	880×270×380	880×270×380	880×270×380	990×280×380	1020×280×380	1310×347×440	1310×347×440
	Outside (mm)	790×370×585	790×370×585	896×352×600	896×352×600	990×390×730	990×390×730	1125×420×735
Gross Weight (kg)	Indoor/Outdoor	10.3/3.8	10.3/3.8	11.6/3.9	13.3/4.5	13.6/4.0	16.8/4.0	22.0/4.0
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"
	Gas	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	3/4"
Applicable Area	m²	12-17	12-17	16-25	20-35	30-45	40-60	50-80
Loading Quantity (set)		20/40/40HQ	11/4/40/280	11/4/40/280	10/2/32/225	6/5/22/225	6/5/150/172	5/8/120/132

Performance	Model	CS-07R/VJ1W-5	CS-09R/VJ1W-5	CS-12R/VJ1W-5	CS-18R/VJ1W-5	CS-22R/VJ1W-5	CS-24R/VJ1W-5
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	7000	9000	12000	18000	22000	24000
Heating Capacity	Btu/h	7000	9000	12000	18000	22000	24000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	783	880	1080	1600	2000	2250
Rated Heating Power Input	W	773	840	1150	1860	2150	2150
Rated Cooling Operating Current	A	3.6	4.1	5.6	8.7	10.2	10.2
Rated Heating Operating Current	A	3.4	3.9	5.3	8.8	9.7	9.7
Air Flow Volume(Indoor)	m³/h	435	435	520	860	885	885
Noise Level (dB(A))	Indoor	28/32/34/37	28/32/34/37	28/33/36/40	33/38/43/46	42/45/48/51	42/45/48/51
	Outdoor	49	49	52	57	60	60
Net Dimensions W×D×H	Indoor (mm)	677×198×250	677×198×250	745×198×250	900×211×285	900×211×285	1014×213×320
	Outside (mm)	650×250×406	650×250×406	700×259×537	700×259×537	823×275×648	823×275×648
Net Weight (kg)	Indoor/Outdoor	7/3.5	7/3.5	7.5/3.0	10.5/4.0	10.5/4.0	15/4.0
Packing Dimensions W×D×H	Indoor (mm)	745×271×330	745×271×330	815×271×330	1010×300×375	1010×300×375	1100×400×308
	Outside (mm)	790×352×585	790×352×585	896×352×600	896×352×600	990×400×730	990×400×730
Gross Weight (kg)	Indoor/Outdoor	9.5/2.7	9.5/2.7	10/3.5	13/4.5	13/4.5	17.5/5.6
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"
Applicable Area	m²	11-13	12-17	16-25	20-35	30-45	40-50
Loading Quantity (set)		20/40/40HQ	12/26/5/290	12/26/5/290	11/6/2/42/260	6/5/10/220	6/5/10/220

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## Wall Split Series

### R410A ON/OFF High Efficiency



AZ3



AZ3



VEA

#### Hidden LED

The hidden dynamic LED display conveys power and intelligent.

#### Simple acrylic molding

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



### Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Heating anti-cold design



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost



### Specification 【ON-OFF】

#### Complying With Iran Standard

Performance		Model	CS-09/R/AZ3Wa-E3 CS-09/S/VEA-Wa-E3	CS-12/R/AZ3Wa-E3 CS-12/S/VEA-Wa-E3	CS-18/R/AZ3Wa-E3	CS-24/R/AZ3Wa-E3
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9050	12000	18000	24000
Heating Capacity	Btu/h		9400	13000	18000	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		810	1060	1600	2300
Rated Heating Power Input	W		860	1170	1700	2300
Rated Cooling Operating Current	A		3.8	5.0	7.4	10.7
Rated Heating Operating Current	A		3.7	5.5	7.9	10.7
Air Flow Volume(indoor)	m³/h		470	520	885	1250
Noise Level	(dB(A))		Indoor 26/30/32/35 Outdoor 50	Indoor 30/33/36/40 Outdoor 51	Indoor 42/45/48/51 Outdoor 54	Indoor 40/43/46 Outdoor 60
Net Dimensions	WxDxH		Indoor (mm) 820x190x274 Outside (mm) 650x250x506	Indoor (mm) 820x190x274 Outside (mm) 760x259x537	Indoor (mm) 900x190x283 Outside (mm) 760x259x663	Indoor (mm) 1150x242x325 Outside (mm) 950x310x745
Net Weight	(kg)		Indoor/Outdoor 8.1/25.5	Indoor/Outdoor 8.1/31	Indoor/Outdoor 13.6/48	Indoor/Outdoor 15/61
Packing Dimensions	WxDxH		Indoor (mm) 880x270x360 Outdoor (mm) 790x370x565	Indoor (mm) 880x270x360 Outdoor (mm) 886x352x600	Indoor (mm) 1020x280x380 Outdoor (mm) 886x352x600	Indoor (mm) 1310x347x440 Outdoor (mm) 1125x420x875
Gross Weight	(kg)		Indoor/Outdoor 10.6/28.5	Indoor/Outdoor 10.6/36	Indoor/Outdoor 13.6/48	Indoor/Outdoor 18/69
Pipe Size	(inch)		Liquid 1/4" Gas 3/8"	Liquid 1/4" Gas 1/2"	Liquid 1/4" Gas 1/2"	Liquid 3/8" Gas 5/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity	(set)		20/40/140HQ	114/240/260	105/232/255	95/218/232

#### Complying With Australia GEMS Standard

Performance		Model	CS-09/R/AZ3Wa-E0	CS-12/R/AZ3Wa-E0	CS-18/R/AZ3Wa-E1	CS-24/R/AZ3Wa-E1
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9050	12000	1800	24000
Heating Capacity	Btu/h		9000	12100	1800	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		710	935	1420	1950
Rated Heating Power Input	W		700	940	1500	2050
Rated Cooling Operating Current	A		3.1	4.2	6.6	9.0
Rated Heating Operating Current	A		3.1	4.2	7.0	9.5
Air Flow Volume(indoor)	m³/h		550	650	950	1150
Noise Level	(dB(A))		Indoor 26/30/32/35 Outdoor 49	Indoor 26/29/32/36 Outdoor 50	Indoor 39/43/46 Outdoor 57	Indoor 42/45/48 Outdoor 60
Net Dimensions	WxDxH		Indoor (mm) 820x190x274 Outside (mm) 760x259x537	Indoor (mm) 900x190x283 Outside (mm) 760x259x663	Indoor (mm) 900x190x283 Outside (mm) 823x275x646	Indoor (mm) 1150x242x325 Outside (mm) 950x310x745
Net Weight	(kg)		Indoor/Outdoor 7.7/32	Indoor/Outdoor 12/34	Indoor/Outdoor 12/34	Indoor/Outdoor 19/65
Packing Dimensions	WxDxH		Indoor (mm) 880x270x360 Outdoor (mm) 886x352x600	Indoor (mm) 1020x280x380 Outdoor (mm) 886x352x712	Indoor (mm) 1310x347x440 Outdoor (mm) 880x400x730	Indoor (mm) 1310x347x440 Outdoor (mm) 1125x420x875
Gross Weight	(kg)		Indoor/Outdoor 9.2/36	Indoor/Outdoor 13.6/38	Indoor/Outdoor 19/58	Indoor/Outdoor 22/73
Pipe Size	(inch)		Liquid 1/4" Gas 3/8"	Liquid 1/4" Gas 1/2"	Liquid 1/4" Gas 1/2"	Liquid 3/8" Gas 5/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity	(set)		20/40/140HQ	102/210/255	87/175/198	59/122/132

#### Complying With Israel SII Standard

Performance		Model	CS-09/R/AZ3Wa-E0	CS-12/R/AZ3Wa-E0	CS-18/R/AZ3Wa-E1	CS-24/R/AZ3Wa-E1
Refrigerant			R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h		9050	12000	1800	24000
Heating Capacity	Btu/h		9000	12100	1800	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		710	935	1420	1950
Rated Heating Power Input	W		700	940	1500	2050
Rated Cooling Operating Current	A		3.1	4.2	6.6	9.0
Rated Heating Operating Current	A		3.1	4.2	7.0	9.5
Air Flow Volume(indoor)	m³/h		550	650	950	1150
Noise Level	(dB(A))		Indoor 26/30/32/35 Outdoor 49	Indoor 26/29/32/36 Outdoor 50	Indoor 39/43/46 Outdoor 57	Indoor 42/45/48 Outdoor 60
Net Dimensions	WxDxH		Indoor (mm) 820x190x274 Outside (mm) 760x259x537	Indoor (mm) 900x190x283 Outside (mm) 760x259x663	Indoor (mm) 900x190x283 Outside (mm) 823x275x646	Indoor (mm) 1150x242x325 Outside (mm) 950x310x745
Net Weight	(kg)		Indoor/Outdoor 7.7/32	Indoor/Outdoor 12/34	Indoor/Outdoor 12/34	Indoor/Outdoor 19/65
Packing Dimensions	WxDxH		Indoor (mm) 880x270x360 Outdoor (mm) 886x352x600	Indoor (mm) 1020x280x380 Outdoor (mm) 886x352x712	Indoor (mm) 1310x347x440 Outdoor (mm) 880x400x730	Indoor (mm) 1310x347x440 Outdoor (mm) 1125x420x875
Gross Weight	(kg)		Indoor/Outdoor 9.2/36	Indoor/Outdoor 13.6/38	Indoor/Outdoor 19/58	Indoor/Outdoor 22/73
Pipe Size	(inch)		Liquid 1/4" Gas 3/8"	Liquid 1/4" Gas 1/2"	Liquid 1/4" Gas 1/2"	Liquid 3/8" Gas 5/8"
Applicable Area	m²		12-17	16-25	20-35	35-50
Loading Quantity	(set)		20/40/140HQ	102/210/255	87/175/198	59/122/132

## Wall Split Series

### T1 R22 Series



AZ3



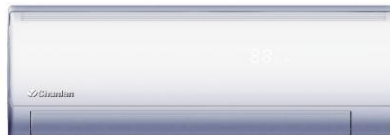
AZ3



VJ1



VJ3



RB

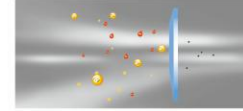
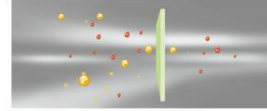


## Specification 【ON-OFF】

21/22

### 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.



Performance	Model	CS-09R/AZ3-S	CS-12R/AZ3-S	CS-18R/AZ3-S	CS-22R/AZ3-S	CS-24R/AZ3-S	CS-30R/AZ3-S
Refrigerant		R22	R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	9000	12000	18000	22000	24000	30000
Heating Capacity	Btu/h	9400	12500	18700	22000	24000	30000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	870	1220	1800	2250	2400	2950
Rated Heating Power Input	W	830	1140	1800	2150	2300	2850
Rated Cooling Operating Current	A	4.0	5.7	7.9	10.2	11.3	13.7
Rated Heating Operating Current	A	3.9	5.3	7.9	9.7	10.7	13.7
Air Flow Volume(indoor)	m³/h	440	520	860	885	1100	1300
Noise Level	(dB(A))	Indoor 28/32/34/37 Outdoor 48	Indoor 30/33/36/40 Outdoor 52	Indoor 33/39/43/48 Outdoor 57	Indoor 42/45/48/51 Outdoor 57	Indoor 42/45/48/51 Outdoor 57	Indoor 42/45/48/51 Outdoor 57
Net Dimensions	W×D×H	Indoor (mm) 820x190x274 Outside (mm) 650x250x508	Indoor (mm) 820x190x274 Outside (mm) 760x250x537	Indoor (mm) 870x190x283 Outside (mm) 760x250x537	Indoor (mm) 900x190x283 Outside (mm) 823x276x648	Indoor (mm) 1150x242x325 Outside (mm) 823x276x648	Indoor (mm) 1150x242x325 Outside (mm) 950x310x745
Net Weight	(kg)	Indoor/Outdoor 7.7/25.5	Indoor/Outdoor 8.1/32	Indoor/Outdoor 11.6/37	Indoor/Outdoor 12.4/45	Indoor/Outdoor 15.4/48	Indoor/Outdoor 18.4/52
Packing Dimensions	W×D×H	Indoor (mm) 880x270x360 Outdoor (mm) 790x352x565	Indoor (mm) 880x270x360 Outdoor (mm) 896x352x600	Indoor (mm) 990x380x390 Outdoor (mm) 896x352x600	Indoor (mm) 1000x380x390 Outdoor (mm) 990x390x730	Indoor (mm) 1310x474x440 Outdoor (mm) 990x390x730	Indoor (mm) 1310x474x440 Outdoor (mm) 1125x420x875
Gross Weight	(kg)	Indoor/Outdoor 10.2/28.5	Indoor/Outdoor 10.6/35	Indoor/Outdoor 13.2/45	Indoor/Outdoor 13.6/53	Indoor/Outdoor 16.5/53	Indoor/Outdoor 22/70
Pipe Size	(inch)	Liquid 1/8 Gas 3/8	Liquid 1/8 Gas 1/2	Liquid 1/8 Gas 1/2	Liquid 1/8 Gas 5/8	Liquid 1/8 Gas 5/8	Liquid 1/8 Gas 5/8
Applicable Area	m²	12-17	16-25	20-35	30-50	40-60	60-80
Loading Quantity	(set)	20/40/140HQ	114/240/280	105/232/255	98/205/225	65/150/172	56/122/132

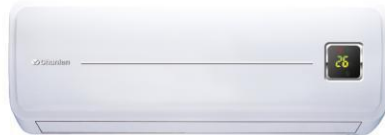
Performance	Model	CS-09R/VJ1-S	CS-12R/VJ1-S	CS-18R/VJ1-S	CS-22R/VJ1-S	CS-24R/VJ1-S
Refrigerant		R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	9000	12000	18000	22000	24000
Heating Capacity	Btu/h	9400	13000	18700	22000	24000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	870	1220	1900	2250	2750
Rated Heating Power Input	W	830	1150	1860	2150	2650
Rated Cooling Operating Current	A	4.0	5.6	8.7	10.2	14.5
Rated Heating Operating Current	A	3.9	5.3	8.6	9.7	14.3
Air Flow Volume(indoor)	m³/h	435	500	860	885	885
Noise Level	(dB(A))	Indoor 30/33/36/38 Outdoor 49	Indoor 28/33/36/40 Outdoor 52	Indoor 33/39/43/48 Outdoor 57	Indoor 42/45/48/51 Outdoor 60	Indoor 42/45/48/51 Outdoor 62
Net Dimensions	W×D×H	Indoor (mm) 677x198x250 Outside (mm) 650x250x606	Indoor (mm) 745x198x250 Outside (mm) 760x250x537	Indoor (mm) 900x211x285 Outside (mm) 760x250x537	Indoor (mm) 900x211x285 Outside (mm) 823x276x648	Indoor (mm) 1014x213x320 Outside (mm) 823x276x648
Net Weight	(kg)	Indoor/Outdoor 7.2/5.5	Indoor/Outdoor 7.5/30	Indoor/Outdoor 10.5/49	Indoor/Outdoor 10.5/45	Indoor/Outdoor 15/54
Packing Dimensions	W×D×H	Indoor (mm) 745x271x330 Outdoor (mm) 790x352x565	Indoor (mm) 815x271x330 Outdoor (mm) 896x352x600	Indoor (mm) 1010x300x375 Outdoor (mm) 896x352x600	Indoor (mm) 1010x300x375 Outdoor (mm) 980x400x730	Indoor (mm) 1105x400x308 Outdoor (mm) 980x400x730
Gross Weight	(kg)	Indoor/Outdoor 9.5/29.5	Indoor/Outdoor 10/35	Indoor/Outdoor 13/45	Indoor/Outdoor 13/53	Indoor/Outdoor 17.5/62
Pipe Size	(inch)	Liquid 1/4" Gas 3/8"	Liquid 1/4" Gas 1/2"	Liquid 1/4" Gas 1/2"	Liquid 1/4" Gas 5/8"	Liquid 1/4" Gas 5/8"
Applicable Area	m²	12-17	16-25	20-35	30-50	40-60
Loading Quantity	(set)	20/40/140HQ	125/265/290	116/242/260	96/210/220	65/150/172

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

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CS-09R/AY2-1 CS-12R/AY2-1



CS-09R/VF1-2 CS-12R/VF1-2



CS-09R/VF2-5 CS-12R/VF2-5 CS-18R/VF2-5



CS-09R/VEA-2 CS-12R/VEA-2

#### High Efficient Compressor



Chunlian 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



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

#### Blue multi-stage evaporator



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



#### Specification 【ON-OFF】

#### 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.

#### Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Anti Cold Air Function



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost

Performance	Model	CS-09R/VEA-2	CS-12R/VEA-2	CS-09R/VF2-5	CS-12R/VF2-5	CS-18R/VF2-5
Refrigerant		R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	9000	12000	9000	12000	18000
Heating Capacity	Btu/h	9400	13000	9400	12500	18700
Power Supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	697	985	880	1220	1900
Rated Heating Power Input	W	725	1030	830	1140	1860
Rated Cooling Operating Current	A	3.2	4.5	4.1	5.7	8.7
Rated Heating Operating Current	A	3.3	4.7	3.9	5.3	8.6
Air Flow Volume (indoor)	m³/h	800	500	500	550	810
Noise Level (dB(A))	Indoor	29/32/35/38	33/36/39/42	28/31/34/37	31/34/37/40	33/39/43/46
	Outdoor	49	51	49	52	57
Net Dimensions (WxDxH)	Inside(mm)	760x180x260	840x180x260	780x201x274	780x201x274	860x201x274
	Outside (mm)	650x250x506	760x259x537	650x250x506	760x259x537	760x259x537
Net Weight (kg)	Indoor/Outdoor	9/25.5	9/3/32	9/25.5	9/3/30	10.5/40
Packing Dimensions (WxDxH)	Indoor (mm)	875x265x340	955x265x340	850x280x355	850x280x355	930x280x355
	Outdoor (mm)	790x352x565	896x352x600	790x352x565	896x352x600	896x352x600
Gross Weight (kg)	Indoor/Outdoor	11.8/29.5	12.1/37	11.8/29.5	11.8/35	13/45
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	3/8"	1/2"	1/2"
Applicable Area	m²	12-17	16-25	12-17	16-25	20-35
Loading Quantity (set)		20/40/40/HQ	116/246/274	116/246/274	110/232/260	106/226/248

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

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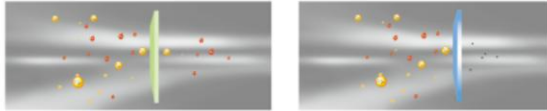
## Wall Split Series

### VJ 60Hz Series



#### 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.



#### Features



Specification 【ON-OFF】 60Hz

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#### Anti Cold Wind Design

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



#### Modal analysis technology

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



#### High Efficient Compressor

Chunlian 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

Chunlian, always selects high quality pels, 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

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



Performance	Model	CS-09R/VJ-5-60	CS-12R/VJ-5-60	CS-18R/VJ-5-60	CS-24R/VJ-5-60
Refrigerant		R22	R22	R22	R22
Cooling Capacity	Btu/h	9000	12000	18000	24000
Heating Capacity	Btu/h	9000	12000	18000	24000
Power supply	Ph, V~, Hz	1, 220, 60	1, 220, 60	1, 220, 60	1, 220, 60
Rated Cooling Power Input	W	960	1300	2100	2450
Rated Heating Power Input	W	920	1250	2050	2350
Rated Cooling Operating Current	A	4.0	5.5	8.7	10.2
Rated Heating Operating Current	A	3.9	5.3	8.6	9.7
Air Flow Volume(indoor)	m³/h	435	520	860	885
Noise Level	(dB(A))	Indoor 29/32/34/37 49	28/33/36/40 52	33/38/43/46 57	41/44/47/50 57
Net Dimensions	WxDxH	Indoor (mm) 677x198x250 Outside (mm) 650x250x506	Indoor (mm) 745x198x250 Outside (mm) 650x250x506	Indoor (mm) 900x211x285 Outside (mm) 760x259x537	Indoor (mm) 1014x213x320 Outside (mm) 823x276x646
Net Weight	(kg)	Indoor/Outdoor 7/23.5	7.5/30	10.5/38	15/54
Packing Dimensions	WxDxH	Indoor (mm) 745x271x330 Outdoor (mm) 790x352x565	815x271x330 790x352x565	1010x300x375 896x352x600	1105x400x308 980x400x730
Gross Weight	(kg)	Indoor/Outdoor 9.5/27.5	10/35	13/43	17.5/62
Pipe Size	(inch)	Liquid 1/4"	1/4"	1/4"	1/4"
		Gas 3/8"	1/2"	1/2"	5/8"
Applicable Area	m²	12-17	16-25	20-35	30-50
Loading Quantity	(set)	20/40/40HQ	125/265/290	125/265/284	96/210/220

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## Wall Split Series

VE 115V/60Hz



VE1



VE2



VE3

### 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.



Specification 【ON-OFF】

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

### Blue multi-stage evaporator



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

## Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Anti Cold Air Function



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost

Performance		Model			
		CS-09R/VE1-5-60	CS-12R/VE1-5-60	CS-09R/VE2-5-60	CS-12R/VE2-5-60
Refrigerant		R22	R22	R22	R22
Cooling Capacity	Btu/h	9000	12000	9000	12000
Heating Capacity	Btu/h	9400	13000	9400	13000
Power Supply	Ph, V~, Hz	1, 115, 60	1, 115, 60	1, 115, 60	1, 115, 60
Rated Cooling Power Input	W	705	985	705	985
Rated Heating Power Input	W	710	1100	710	1100
Rated Cooling Operating Current	A	3.3	4.5	3.3	4.5
Rated Heating Operating Current	A	3.3	5.1	3.3	5.1
Air Flow Volume	(indoor)	400	550	400	550
Noise Level	(dB(A))	29/32/35/38	33/36/39/42	29/32/35/38	33/36/39/42
	Outdoor	49	51	49	51
Net Dimensions	(WxDxH)				
	Inside(mm)	760x180x260	840x180x260	760x180x260	840x180x260
	Outside (mm)	650x250x506	760x259x537	650x250x506	760x259x537
Net Weight	(kg)				
	Indoor/Outdoor	7.5/25.5	8.5/32	7.5/25.5	8.5/32
Packing Dimensions	(WxDxH)				
	Indoor (mm)	875x265x340	955x265x340	875x265x340	955x265x340
	Outdoor (mm)	790x352x565	896x352x600	790x352x565	896x352x600
Gross Weight	(kg)				
	Indoor/Outdoor	10/29.5	11/37	10/29.5	11/37
Pipe Size (inch)					
	Liquid	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	3/8"	1/2"
Applicable Area	m²	12-17	16-25	12-17	16-25
Loading Quantity	(set)	20/40/40HQ	112/240/260	82/170/200	112/240/260

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## T3 Tropical R22 Universal



AZ3



AZ3



VJ1



VJ3



## Specification 【ON-OFF】

Performance		Model		C3S-12(R)AZ3-6	C3S-18(R)AZ3-6	C3S-24(R)AZ3-6	C3S-30(R)AZ3-6
Refrigerant			R22	R22	R22	R22	R22
Cooling Capacity	Btu/h		12000	18000	24000	30000	
Heating Capacity	Btu/h		12000	18700	24000	30000	
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	
Rated Cooling Power Input	W		1200	1800	2420	2950	
Rated Heating Power Input	W		1190	1860	2300	2950	
Rated Cooling Operating Current	A		5.6	8.7	11.3	13.7	
Rated Heating Operating Current	A		5.5	8.6	10.7	13.7	
Air Flow Volume(indoor)	m³/h		520	860	1100	1300	
Noise Level	(dB(A))						
	Indoor		28/33/36/40	33/39/43/46	40/43/46	42/45/48	
	Outdoor		52	57	57	60	
Net Dimensions	W×D×H						
	Inside (mm)		820×190×274	870×190×274	1150×242×325	1150×242×325	
	Outside (mm)		760×259×537	760×259×537	823×276×549	950×310×745	
Net Weight	(kg)						
	Indoor/Outdoor		8.1/31	11.6/34	15/48	19/62	
Packing Dimensions	W×D×H						
	Indoor (mm)		880×270×360	990×280×380	1310×347×440	1310×347×440	
	Outdoor (mm)		896×352×600	896×352×600	990×390×730	1129×420×875	
Gross Weight	(kg)						
	Indoor/Outdoor		10/36	13.2/38	18/53	22/70	
Pipe Size	(inch)						
	Liquid		1/4"	1/4"	1/4"	3/8	
	Gas		1/2"	1/2"	5/8"	5/8	
Applicable Area	m²		16-25	20-35	40-60	60-80	
Loading Quantity	(set)		20/40/140/HQ	116/242/260	96/210/220	58/122/132	42/90/108

Performance		Model		C3S-12(R)VJ1-6	C3S-18(R)VJ1-6	C3S-24(R)VJ1-6
Refrigerant			R22	R22	R22	R22
Cooling Capacity	Btu/h		12000	18000	24000	24000
Heating Capacity	Btu/h		12000	18700	24000	24000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		1300	1900	2700	2700
Rated Heating Power Input	W		1300	1900	2550	2550
Rated Cooling Operating Current	A		5.6	8.7	12.5	12.5
Rated Heating Operating Current	A		5.5	8.6	11.8	11.8
Air Flow Volume(indoor)	m³/h		520	860	880	880
Noise Level	(dB(A))					
	Indoor		26/31/34/38	33/39/43/46	42/45/48/51	42/45/48/51
	Outdoor		52	57	60	60
Net Dimensions	W×D×H					
	Inside (mm)		745×198×250	900×211×285	1014×213×320	1014×213×320
	Outside (mm)		760×259×537	760×259×537	823×276×549	823×276×549
Net Weight	(kg)					
	Indoor/Outdoor		7.5/30	10.5/40	15/53	15/53
Packing Dimensions	W×D×H					
	Indoor (mm)		815×271×330	1010×300×375	1105×400×308	1105×400×308
	Outdoor (mm)		896×352×600	896×352×600	990×390×730	990×390×730
Gross Weight	(kg)					
	Indoor/Outdoor		10/35	13/45	17.5/71	17.5/71
Pipe Size	(inch)					
	Liquid		1/4"	1/4"	3/8"	3/8"
	Gas		1/2"	1/2"	5/8"	5/8"
Applicable Area	m²		16-25	20-35	30-50	30-50
Loading Quantity	(set)		20/40/140/HQ	116/242/260	96/210/220	60/130/154

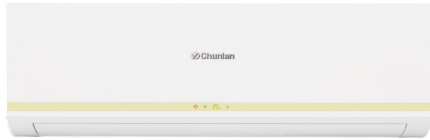
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## T3 Tropical R410A



AZ3



AZ3

## CFC-free R410A environmental refrigerant



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



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



Excellent thermal performance of the eco-friendly refrigerant R410A can generate more powerful cooling and heating capacity.



R410A is the new environmental friendly refrigerant all over the world, which is clean, eco-friendly, non-flammable. It is widely used in many countries.

## Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Anti Cool Air Function



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost



## Specification 【ON-OFF】

## High Efficient Compressor



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

## High quality internal thread copper tube



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

## Blue multi-stage evaporator



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

## Complying With UAE ESMA Standard

Performance	Model	C3S-12/AZ3Wa-E3	C3S-18/AZ3Wa-E3	C3S-24/AZ3Wa-E3
Refrigerant		R410a	R410a	R410a
Cooling Capacity	Blu/h	12000	18000	24000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	1160	1650	2300
Rated Cooling Operating Current	A	5.4	7.6	10.7
Air Flow Volume(indoor)	m³/h	580	885	1250
Noise Level (dB(A))	Indoor	30/33/36/40	42/45/48/51	40/43/46
	Outdoor	52	54	60
Net Dimensions	W×D×H	Inside (mm) 820x190x274	900x190x283	1150x242x325
		Outside (mm) 760x259x537	760x259x537	950x310x745
Net Weight (kg)	Indoor/Outdoor	9.0/32	10.5/40	15/61
Packing Dimensions	W×D×H	Indoor (mm) 880x270x360	1020x280x380	1310x347x440
		Outdoor (mm) 896x352x400	896x352x412	1125x420x875
Gross Weight (kg)	Indoor/Outdoor	11.3/37	13/45	18/69
Pipe Size (inch)	Liquid	1/4"	1/4"	3/8"
	Gas	1/2"	1/2"	5/8"
Applicable Area	m²	16-25	20-35	30-50
Loading Quantity (set)	20'/40'/40'HQ	105/232/255	95/218/232	42/90/108

## Complying With KSA SASO Standard

Performance	Model	C3S-12R/AZ3Wa-E2-60	C3S-18R/AZ3Wa-E2-60	C3S-24R/AZ3Wa-E2-60
Refrigerant		R410a	R410a	R410a
Cooling Capacity	Blu/h	12000	18000	24000
Heating Capacity	Blu/h	12000	18700	24000
Power supply	Ph, V~, Hz	1, 220, 60	1, 220, 60	1, 220, 60
Rated Cooling Power Input	W	1090	1470	2220
Rated Heating Power Input	W	1130	1500	2220
Rated Cooling Operating Current	A	5.1	6.8	10.3
Rated Heating Operating Current	A	5.3	6.9	10.3
EER(cooling)	Blu/W(≥11.5)	11.6	11.6	11.5
COP(heating)	Blu/W(≥11.5)	11.6	11.6	11.5
Air Flow Volume(indoor)	m³/h	520	885	1250
Noise Level (dB(A))	Indoor	40/28/33/36	42/45/48/51	43/46/49
	Outdoor	52	54	60
Net Dimensions	W×D×H	Inside (mm) 900x190x283	900x190x283	1150x242x325
		Outside (mm) 760x259x537	823x275x646	950x310x745
Net Weight (kg)	Indoor/Outdoor	10.2/34	12/43	16/63.5
Packing Dimensions	W×D×H	Indoor (mm) 880x270x360	1020x280x380	1310x347x440
		Outdoor (mm) 980x400x730	980x400x730	1125x420x875
Gross Weight (kg)	Indoor/Outdoor	12.5/39	13.6/48	19/71.5
Pipe Size (inch)	Liquid	1/4"	1/4"	3/8"
	Gas	1/2"	1/2"	5/8"
Applicable Area	m²	16-25	20-35	30-50
Loading Quantity (set)	20'/40'/40'HQ	105/232/255	70/150/232	42/90/108

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Golden



Silver



Red



Blue



Black



## Specification 【ON-OFF】

Performance	Model	CS-09RAZ1-1	CS-12RAZ1-1	CS-09RAZ1We-1	CS-12RAZ1We-1	CS-09RAZ1BPWe-1	CS-12RAZ1BPWe-1
Refrigerant	R22	R22	R22	R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000	12000	9000	12000	9000(2700~13000)	12000(3300~14000)
Heating Capacity	Btu/h	9400	13000	9400	13000	9600(2200~12000)	13800(3300~16000)
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	870	932	870	932	890(140~860)	870(180~1370)
Rated Heating Power Input	W	735	1080	735	1080	750(150~1100)	1250(170~1750)
Rated Cooling Operating Current	A	3.1	4.3	3.1	4.3	3.80(7.4~8.1)	3.80(8.4~1)
Rated Heating Operating Current	A	3.4	4.8	3.4	4.8	3.60(6.5~7)	5.70(8.7~6)
Air Flow Volume(indoor)	m³/h	435	540	435	540	440	590
Noise Level (dB(A))	Indoor	26/32/32/35	25/31/31/35	24/28/30/33	25/29/31/35	31/33/30/36	32/34/30/38
	Outdoor	48	49	48	49	50	51
Net Dimensions W×D×H	Indoor (mm)	820×180×274	870×180×283	820×180×274	870×180×283	820×180×274	870×180×283
	Outdoor (mm)	760×259×537	760×259×537	760×259×537	760×259×537	760×259×537	850×270×586
Net Weight (kg)	Indoor/Outdoor	10.2/31	11.6/34	10.2/31	11.6/34	10.2/32	11.6/40
Packing Dimensions W×D×H	Indoor (mm)	940×280×370	990×280×380	940×280×370	990×280×380	940×280×370	990×280×380
	Outdoor (mm)	896×352×600	896×352×600	896×352×600	896×352×600	896×352×600	986×385×676
Gross Weight (kg)	Indoor/Outdoor	12.2/39	13.2/39	12.2/39	13.2/39	12.2/37	13.2/46
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"
Applicable Area	m²	12~17	16~25	12~17	16~25	12~17	16~25
Loading Quantity (set)		20/40/40/HQ	8/210/235	95/205/225	8/210/235	95/205/225	8/210/235

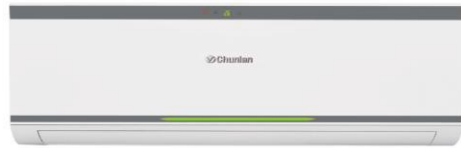
Performance	Model	CS-09RAZ1-2	CS-12RAZ1-2	CS-09RAZ1-5	CS-12RAZ1-5	CS-18RAZ1-5	CS-24RAZ1-5
Refrigerant	R22	R22	R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	9000	12000	13000	18000	24000	24000
Heating Capacity	Btu/h	9400	13000	14000	19000	26000	26000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	705	985	870	1220	1500	2250
Rated Heating Power Input	W	710	1100	830	1140	1900	2150
Rated Cooling Operating Current	A	3.3	4.5	4.0	5.7	7.0	10.2
Rated Heating Operating Current	A	3.3	5.1	3.9	5.3	7.0	9.7
Air Flow Volume(indoor)	m³/h	435	490	440	520	880	885
Noise Level (dB(A))	Indoor	24/28/30/33	25/28/31/35	28/32/34/37	30/33/35/40	35/39/43/46	42/45/48/51
	Outdoor	48	49	49	52	57	60
Net Dimensions W×D×H	Indoor (mm)	820×180×274	820×180×274	820×180×274	870×180×283	900×180×283	900×180×283
	Outdoor (mm)	650×250×506	760×259×537	650×250×506	760×259×537	800×253×546	800×253×546
Net Weight (kg)	Indoor/Outdoor	10.2/30.5	10.2/34	7.7/25.5	8.1/30	11.6/37	12/45
Packing Dimensions W×D×H	Indoor (mm)	940×280×370	940×280×370	880×270×360	880×270×360	990×280×380	1020×280×380
	Outdoor (mm)	790×370×565	896×352×600	790×352×595	896×352×600	896×352×600	950×370×710
Gross Weight (kg)	Indoor/Outdoor	12.2/30.5	12.2/34	10.2/25.5	11.6/30	13.2/45	13.6/53
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	3/8"	1/2"	1/2"	5/8"
Applicable Area	m²	12~17	16~25	12~17	16~25	20~35	30~50
Loading Quantity (set)		20/40/40/HQ	105/232/255	98/210/235	114/240/260	105/232/255	98/205/225

Performance	Model	CS-09RAZ1We-0	CS-12RAZ1We-0	CS-18RAZ1We-2	CS-09RAZ1We-5	CS-12RAZ1We-5	CS-18RAZ1We-5	CS-24RAZ1We-5
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000	12000	18000	9000	12000	18000	24000
Heating Capacity	Btu/h	9000	12000	18000	9400	12500	18700	24000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	710	935	1550	880	1060	1500	2000
Rated Heating Power Input	W	700	940	1560	840	980	1500	1950
Rated Cooling Operating Current	A	3.1	4.2	7	4.1	4.9	7.0	9.3
Rated Heating Operating Current	A	3.1	4.2	7	3.9	4.5	7.0	8.8
Air Flow Volume(indoor)	m³/h	550	650	880	500	580	830	885
Noise Level (dB(A))	Indoor	26/30/32/35	26/29/32/36	34/40/44/47	28/32/34/37	30/33/35/40	35/39/43/46	42/45/48/51
	Outdoor	49	50	57	49	50	57	60
Net Dimensions W×D×H	Indoor (mm)	820×180×274	900×180×283	900×180×283	820×180×274	870×180×283	900×180×283	900×180×283
	Outdoor (mm)	760×259×537	760×259×537	823×271×646	650×250×506	760×259×537	760×259×537	800×253×546
Net Weight (kg)	Indoor/Outdoor	7.7/32	10/34	15/46	7.7/23.8	8.1/30	11.6/37	12/45
Packing Dimensions W×D×H	Indoor (mm)	880×270×360	1020×280×380	1020×280×380	880×270×360	880×270×360	990×280×380	1020×280×380
	Outdoor (mm)	896×352×600	896×352×612	986×400×730	760×270×580	896×352×600	896×352×600	950×370×710
Gross Weight (kg)	Indoor/Outdoor	9.2/36	13.6/38	16.6/44	9.2/25.5	10.6/30	13.2/45	13.6/53
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	1/2"	3/8"	1/2"	1/2"	5/8"
Applicable Area	m²	12~17	16~25	20~35	12~17	16~25	20~35	30~50
Loading Quantity (set)		20/40/40/HQ	102/102/255	87/175/198	70/180/170	114/240/260	105/232/255	98/205/225

\* The model CS-09RAZ1We-0, CS-12RAZ1We-5 and CS-18RAZ1We-2 are complying with Australia new MEPS.

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## Wall Split Series



A



B

**LED backlight**  
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.



**Backlight remote control**  
A intimate remote control with backlight function, allow you to use even in dim lighting easily. Run mode with memory function is more convenient.



**Independent digital display**  
The LED display can be turned on or off to show a visible running status, depending on user's need.



### Features



Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Heating anti-cold design



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost



### Specification 【ON-OFF】

35/36

Performance	Model	CS-09RAZ2-1	CS-12RAZ2-1	CS-09RAZ2We-1	CS-12RAZ2We-1	CS-09RAZ2BPWe-1	CS-12RAZ2BPWe-1
Refrigerant	R22	R22	R22	R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000	12000	9000	12000	9000(7100-13000)	12000(10000-14000)
Heating Capacity	Btu/h	9400	13000	9400	13000	9600(2200-12000)	13800(3300-18000)
Power Supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	870	932	870	932	890(140-880)	870(180-1370)
Rated Heating Power Input	W	735	1080	735	1080	750(150-1100)	1250(170-1780)
Rated Cooling Operating Current	A	3.1	4.3	3.1	4.3	2.80(7.4-8.1)	3.80(8.4-1)
Rated Heating Operating Current	A	3.4	4.8	3.4	4.8	3.60(6.5-2)	5.70(8.7-6)
Air Flow Volume(indoor)	m³/h	435	540	435	540	440	590
Noise Level (dB(A))	Indoor	26/30/30/35	25/31/31/35	24/28/30/33	25/29/31/35	31/33/30/35	32/34/30/35
	Outdoor	48	49	48	49	50	51
Net Dimensions	W×D×H	Inside (mm)	820×180×274	820×180×283	820×180×274	820×180×274	870×180×283
	Outside (mm)	760×259×537	760×259×537	760×259×537	760×259×537	820×259×537	820×259×537
Net Weight	(kg)	Indoor/Outdoor	10.2/31	11.6/34	10.2/31	11.6/34	11.6/40
Packing Dimensions	W×D×H	Indoor (mm)	940×280×370	940×280×380	940×280×370	940×280×380	940×280×380
	Outside (mm)	896×352×600	896×352×600	896×352×600	896×352×600	896×352×600	940×352×676
Gross Weight	(kg)	Indoor/Outdoor	12.2/39	13.2/39	12.2/39	13.2/39	13.2/46
Pipe Size	(inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"
Applicable Area	m²	12-17	16-25	12-17	16-25	12-17	16-25
Loading Quantity	(set)	201407401HQ	86/210/235	95/205/225	86/210/235	95/205/225	79/165/188

Performance	Model	CS-09RAZ2-2	CS-12RAZ2-2	CS-09RAZ2-5	CS-12RAZ2-5	CS-18RAZ2-5	CS-24RAZ2-5
Refrigerant	R22	R22	R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	9000	12000	9000	12000	18000	24000
Heating Capacity	Btu/h	9400	13000	9400	13000	18700	24000
Power Supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	705	985	870	1220	1500	2250
Rated Heating Power Input	W	710	1100	830	1140	1500	2150
Rated Cooling Operating Current	A	3.3	4.5	4.0	5.7	7.0	9.7
Rated Heating Operating Current	A	3.3	5.1	3.9	5.3	7.0	9.7
Air Flow Volume(indoor)	m³/h	435	490	440	520	880	885
Noise Level (dB(A))	Indoor	24/29/30/33	25/29/31/35	26/32/34/37	30/33/36/40	33/36/43/46	42/44/48/51
	Outdoor	48	49	52	57	60	60
Net Dimensions	W×D×H	Inside (mm)	820×180×274	820×180×274	820×180×274	870×180×283	900×180×283
	Outside (mm)	650×250×508	760×259×537	650×250×508	760×259×537	760×259×537	800×259×548
Net Weight	(kg)	Indoor/Outdoor	10.2/29.5	10.2/34	7.7/25.5	8.1/30	11.6/37
Packing Dimensions	W×D×H	Indoor (mm)	940×280×370	940×280×370	880×270×360	880×270×360	990×280×380
	Outside (mm)	790×370×565	896×352×600	790×352×565	896×352×600	896×352×600	1020×370×710
Gross Weight	(kg)	Indoor/Outdoor	12.5/39.5	13.5/39	10.2/29.5	10.6/35	13.2/45
Pipe Size	(inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	3/8"	1/2"	3/8"	5/8"
Applicable Area	m²	12-17	16-25	12-17	16-25	25-35	30-50
Loading Quantity	(set)	201407401HQ	105/232/255	98/210/235	114/240/260	105/232/255	98/205/225

Performance	Model	CS-09RAZ2We-0	CS-12RAZ2We-0	CS-18RAZ2We-2	CS-09RAZ2We-5	CS-12RAZ2We-5	CS-18RAZ2We-5	CS-24RAZ2We-5
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000	12000	18000	9000	12000	18000	24000
Heating Capacity	Btu/h	9600	12100	18000	9400	12500	18700	24000
Power Supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	710	830	1550	880	1080	1500	2200
Rated Heating Power Input	W	700	840	1550	840	1080	1500	1800
Rated Cooling Operating Current	A	3.1	4.2	7	4.1	4.9	7.0	9.3
Rated Heating Operating Current	A	3.1	4.2	7	3.9	4.9	7.0	8.8
Air Flow Volume(indoor)	m³/h	550	650	880	500	580	830	885
Noise Level (dB(A))	Indoor	26/30/30/35	26/30/30/38	34/36/44/47	26/32/34/37	30/33/36/40	33/36/43/46	42/44/48/51
	Outdoor	49	50	57	51	57	60	60
Net Dimensions	W×D×H	Inside (mm)	820×180×274	900×180×283	820×180×274	820×180×274	870×180×283	900×180×283
	Outside (mm)	760×259×537	760×259×537	820×270×548	760×259×537	760×259×537	820×259×537	820×259×537
Net Weight	(kg)	Indoor/Outdoor	7.7/32	12/34	12/46	8.1/30	11.6/37	12/45
Packing Dimensions	W×D×H	Indoor (mm)	880×270×360	1020×280×380	1020×280×380	880×270×360	880×270×360	990×280×380
	Outside (mm)	896×352×600	896×352×600	940×400×710	896×352×600	896×352×600	896×352×600	940×370×710
Gross Weight	(kg)	Indoor/Outdoor	9.2/36	13.6/38	13.6/54	10.2/29.5	10.6/35	13.2/45
Pipe Size	(inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	1/2"	3/8"	1/2"	1/2"	5/8"
Applicable Area	m²	12-17	16-25	20-35	12-17	16-25	25-35	30-50
Loading Quantity	(set)	201407401HQ	102/19/235	85/179/188	70/159/170	114/240/260	105/232/255	98/205/225

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VFA



VFA



VFA

**High Efficient Compressor**

Chunlian 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**

Chunlian, always selects high quality parts, adapts W-shape high quality internal thread copper tubes for each set of air conditioners, 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 a unique hydrophilic membrane coating, which can enhance the heat exchange surface area and make highly heat exchange efficient.



Specification 【ON-OFF】

**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.

Performance	Model	CS-09(R)VFA-S	CS-12(R)VFA-S	CS-18(R)VFA-S	CS-09(R)VFAWa-S	CS-12(R)VFAWa-S	CS-18(R)VFAWa-S
Refrigerant		R22	R22	R22	R410a	R410a	R410a
Cooling Capacity	Btu/h	9000	12000	18000	9000	12000	18000
Heating Capacity	Btu/h	9400	13000	18700	9400	13000	18700
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	870	1220	1900	880	1220	1900
Rated Heating Power Input	W	930	1150	1860	840	1150	1860
Rated Cooling Operating Current	A	4.0	5.6	8.7	4.1	5.6	8.7
Rated Heating Operating Current	A	3.9	5.3	8.6	3.9	5.3	8.6
Air Flow Volume(indoor)	m³/h	435	500	860	435	520	860
Noise Level (dB(A))	Indoor	30/33/36/38	28/33/36/40	33/39/43/46	29/32/34/37	28/33/36/40	33/39/43/46
	Outdoor	49	52	57	49	52	57
Net Dimensions W×D×H	Inside (mm)	780X201X274	860X201X274	860X201X274	780X201X274	860X201X274	860X201X274
	Outside (mm)	650X250X506	760X259X537	800X253X646	650X250X506	760X259X537	800X253X646
Net Weight (kg)	Indoor/Outdoor	7/2.5	7.5/3.0	10.5/4.0	7/2.5	7.5/3.0	10.5/4.0
Packing Dimensions W×D×H	Indoor (mm)	850X280X355	930X280X355	930X280X355	850X280X355	930X280X355	930X280X355
	Outdoor (mm)	790X352X665	896X352X660	950X370X710	790X352X665	896X352X660	950X370X710
Gross Weight (kg)	Indoor/Outdoor	9.5/29.5	10/35	13/45	9.5/29.5	10/35	13/45
Pipe Size (inch)	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	3/8"	1/2"	1/2"	3/8"	1/2"	1/2"
Applicable Area m²		12-17	16-25	20-35	12-17	16-25	20-35
Loading Quantity (set)		20/40/40HQ	116/242/260	96/210/220	125/265/290	116/242/260	96/210/220

**Features**

Wide Voltage Start



Patent Super Silence Technology



Wide Climate Design



Strong Independent Dehumidification



Anti Cool Air Function



Independent Ventilation Button



Sleep Mode



24 Hour Timer



Four Speed Air Outlet



Backlight Remote Control



Independent Digital Display Button



Intelligent Defrost

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Floor Standing Air Conditioners





### Chunlan 6th generation inverter technology

Unique PAM180 vector DC inverter control technology  
Inverter system innovation technology  
Intelligent Renesas control chip.  
DC high end configuration, multi channel precise adjustment

### star sky, infinite dream

Chunlan e star sky intelligent air conditioner with internet of things function, which adopts Acrylic panel and IMID high end decorative printing technology. The unique multi-arc shaped luxury panel is transparent and gorgeous like crystal. Shining starlight scatter above it and makes a perfect scene.



### Intelligent internet of things Free enjoyment



The unique e intelligent internet of things Chunlan air conditioner, seamlessly connect air conditioner, service platform and customer together to create an intelligent interactive system via internet. It is a breakthrough to the time and space limit, reinvention to air conditioner, customer can freely enjoy comfortable living.

#### 1 intelligent internet of things App



The intelligently designed intelligent and convenient App supports the iOS and Android system, with strong compatibility and stable operation. Using computer code through phone and tablet, you can easily control the air conditioner while traveling, high operating efficiency.

#### 2 intelligent customization



Users can set the air conditioner into the most comfortable setting mode according to their own needs and preferences, with precise and healthy temperature control, intelligent and quiet, saving space and so on, for the air conditioner can bring you different experience of life.

#### 3 intelligent long distance control



The long distance control can easily solve many problems. As long as there is internet service, the air conditioner at home or at your office can be controlled when you are away from home. You can easily control the air conditioner at home from far away and enjoy comfortable living.

#### Intelligent environment adaptive



Create a new air conditioning mode, which can intelligently adjust the temperature according to the difference between indoor and outdoor temperature, and make it is the most comfortable and most economical setting mode, including cooling, heating, dehumidifying, dehumidifying, and other functions.

### Chunlan intelligent comfy function

e intelligent internet of things, control cooling/heating at anywhere  
Quintuple intelligence, e fashion life.  
Healthy air technology  
2nd generation super silencer technology

### Circling side air distribution design

Differing from the traditional air conditioner air distribution design, the circling side air distribution design, is quiet and comfortable, just like the natural breeze in the forest.



### Intelligent RENESAS Chips



As the brain of air conditioners, chips are the core control components which decide the performance of air conditioners. Chunlan established a chip R&D lab by working together with Renesas Japan to develop the higher-performance 32-bit vector control chips. Its intelligent vector control technology efficiency is greatly improved, while precise adjustment in multiple channels can ensure the high efficiency and stability of system running.

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

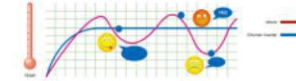


When the unit runs under an ultra-low frequency, the lowest power just equals to the power of a bulb, which also helps the system running with constant temperature. The energy saving performance reaches a new level.

### Full DC Advanced Configuration Multiple Channels Precise Adjustment



### Ultra low frequency precise temperature control



When the temperature reaches the set value, air conditioner start to run at low frequency with less temperature fluctuation up to  $\pm 0.1^\circ\text{C}$ . No sudden cooling or heating, meanwhile the unit will keep running at lower power consumption to create comfortable living with less energy consumption.



Super heating in low temperature



Heat exchanger self-cleaning



Controllable electric auxiliary heating



Backlight remote control



Independent digital display button



Comfortable sleep



Healthy air technology



Controllable "Power" key

Performance	Model	CF-18R/AXBPdWa-1	CF-24R/AXBPdWa-1
Refrigerant		R410a	R410a
Cooling Capacity	Btu/h	18000(4100-20500)	24600(6800-26600)
Heating Capacity	Btu/h	19100(5100-22200)	27000(8500-29000)
Power Supply	Ph, V~, Hz	1,220,50	1,220,50
Rated Cooling Power Input	W	1300	2190
Rated Heating Power Input	W	1590	2290
Rated Cooling Operating Current	A	6.01	10.15
Rated Heating Operating Current	A	7.3	10.62
Air Flow Volume (indoor)	m <sup>3</sup> /h	800	1000
Noise Level (dB(A))		Indoor 33-45 Outdoor ≤65	Indoor 36-51 Outdoor ≤60
Net Dimensions (WxDxH)		Inside(mm) 500x335x1820 Outside (mm) 823x275x646	Inside(mm) 500x335x1820 Outside (mm) 950x360x853
Net Weight (kg)		Indoor/Outdoor 37/50	Indoor/Outdoor 39/75
Packing Dimensions (WxDxH)		Indoor (mm) 690x541x1955 Outdoor (mm) 980x400x730	Indoor (mm) 690x541x1955 Outdoor (mm) 1125x470x980
Gross Weight (kg)		Indoor/Outdoor 45/55	Indoor/Outdoor 47/83
Pipe Size (inch)		Liquid 1/4 Gas 1/2	Liquid 3/8 Gas 5/8
Applicable Area	m <sup>2</sup>	25-35	32-48
Loading Quantity (set)		20/40/40HQ	22/48/50

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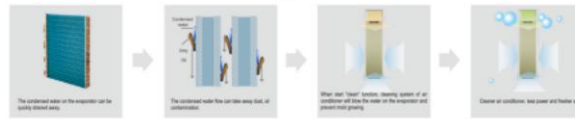


A

B

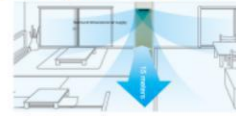


## Auto self-cleaning heat exchanger



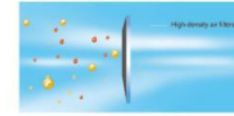
One of the main reasons of odour emitting from an air conditioner is the dust and bacteria inserting on the evaporator. Auto self-cleaning function can clean the evaporator automatically and reduce the possibility of dust and bacteria inserting inside of the evaporator. Meanwhile, clean evaporator helps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

## Super long Surround dimensional air supply



Cross controlled wind guide blades can achieve three-dimensional wind supply and also can position the wind at any desired angle of wind direction. The air will be delivered comfort to every corner of the room. Even as far as 15 meters, you can also feel comfortable.

## 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 transmits dirty air into cleaner air.

## Features

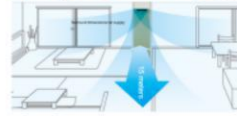


Performance	Model	CF-18RVF16-1	CF-24RVF16-1	CF-18RVF16-2	CF-24RVF16-2	CF-18RVF16-5	CF-24RVF16-5
Refrigerant		R22	R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	18000	24000	18000	24000	18000	24000
Heating Capacity	Btu/h	19000	27000	19000	27000	19000	27000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	1515	2250	1610	2400	1900	2750
Rated Heating Power Input	W	1450	2150	1550	2450	1880	2600
Rated Cooling Operating Current	A	7.0	10.4	7.5	11.2	8.7	13.1
Rated Heating Operating Current	A	6.8	10.0	7.0	11.4	8.6	12.1
Air Flow Volume(indoor)	m <sup>3</sup> /h	820	1000	850	1000	850	1000
Noise Level (dB(A))	Indoor	37/40/43	44/47/50	37/40/43	45/48/51	41/44/47	45/48/51
	Outdoor	55	58	55	60	57	60
Net Dimensions W×D×H	Inside (mm)	900x320x1760	900x320x1760	900x320x1760	900x320x1760	900x320x1760	900x320x1760
	Outside (mm)	823x275x646	950x360x853	823x275x646	950x310x745	760x259x537	950x310x745
Net Weight (kg)	Indoor/Outdoor	41/50	43/75	42/54	45/65	42/40	45/63
Packing Dimensions W×D×H	Indoor (mm)	690x465x1895	690x465x1895	690x465x1895	690x465x1895	690x465x1895	690x465x1895
	Outdoor (mm)	980x400x730	1120x490x1010	980x400x730	1125x420x875	896x352x600	1125x420x875
Gross Weight (kg)	Indoor/Outdoor	53/55	50/87	54/62	57/73	54/45	57/71
Pipe Size (inch)	Liquid	1/4"	3/8"	1/4"	3/8"	1/4"	3/8"
	Gas	1/2"	5/8"	1/2"	5/8"	1/2"	5/8"
Applicable Area m <sup>2</sup>		20-37	30-58	20-37	30-58	20-37	30-58
Loading Quantity (set)		20/140/140HQ	32/66/77	23/48/52	32/66/77	27/58/66	36/78/90

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- The applicable area of an conditioner is related to room orientation, insulation level, height of the building, the size and amount of the doors and windows, so that the applicable area is just for reference.
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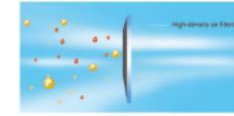


## Super long Surround dimensional air supply



Cross controlled wind guide blades can achieve three-dimensional wind supply and also can position the wind at any desired angle of wind direction. The air will be delivered comfort to every corner of the room. Even as far as 15 meters, you can also feel comfortable.

## High-density air filters



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

## Features



Patent Super Silence Technology



Controlable Accessorial Electric Heating/Operation



Strong Independent Dehumidification



Anti Cool Air Function



Independent Ventilation Button



Backlight Remote Control



24 Hour Timer



Wide Voltage Start



Independent Digital Display Button



Intelligent Defrost



Wide Climate Design



## 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.

Performance	Model	CF-18RVF26-1	CF-24RVF26-1	CF-18RVF26-2	CF-24RVF26-2	CF-18RVF26-5	CF-24RVF26-5
Refrigerant		R22	R22	R22	R22	R22	R22
Cooling Capacity	Btu/h	18000	24000	18000	24000	18000	24000
Heating Capacity	Btu/h	19000	27000	19000	27000	19000	27000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	1515	2290	1810	2400	1900	2750
Rated Heating Power Input	W	1450	2180	1500	2450	1950	2600
Rated Cooling Operating Current	A	7.0	10.2	7.5	11.2	8.7	13.1
Rated Heating Operating Current	A	6.8	10.0	7.0	11.4	8.6	12.1
Air Flow Volume(Indoor)	m <sup>3</sup> /h	890	1000	890	1000	890	1000
Noise Level	(dB(A))	Indoor 38/41/44 55	44/47/50 58	41/44/47 55	45/48/51 60	41/44/47 57	45/48/51 60
Net Dimensions	WxDxH	Indoor (mm) 500x285x1720 Outside (mm) 823x375x646	Indoor (mm) 500x285x1720 Outside (mm) 823x375x646	Indoor (mm) 500x285x1720 Outside (mm) 823x375x646	Indoor (mm) 500x285x1720 Outside (mm) 823x375x646	Indoor (mm) 500x285x1720 Outside (mm) 823x375x646	Indoor (mm) 500x285x1720 Outside (mm) 823x375x646
Net Weight	(kg)	Indoor/Outdoor 37/50	39/75	37/54	39/85	37/40	39/83
Packing Dimensions	WxDxH	Indoor (mm) 690x425x1855 Outdoor (mm) 980x405x730	Indoor (mm) 690x425x1855 Outdoor (mm) 980x405x730	Indoor (mm) 690x425x1855 Outdoor (mm) 980x405x730	Indoor (mm) 690x425x1855 Outdoor (mm) 980x405x730	Indoor (mm) 690x425x1855 Outdoor (mm) 980x405x730	Indoor (mm) 690x425x1855 Outdoor (mm) 980x405x730
Gross Weight	(kg)	Indoor/Outdoor 48/55	50/87	45/82	47/73	45/45	47/71
Pipe Size	Liquid Gas	1/4" 1/2"	3/8" 5/8"	1/4" 1/2"	3/8" 5/8"	1/4" 1/2"	3/8" 5/8"
Applicable Area	m <sup>2</sup>	20-37	30-58	20-37	30-58	20-37	30-58
Loading Quantity	(set)	20/40/140/40	32/68/78	24/50/80	32/68/78	30/60/70	38/80/70

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**Air outlet shut automatically**  
Quick close automatically when the unit is turned off. The control will keep the indoor fan speed and outdoor fan speed.

**Intimate flooring angular line design**  
Smooth flooring angular line design will keep the low profile of the room space.

**Beautiful display screen**  
New dynamic LED display shows a visible running status.

**Touch-sensitive buttons**  
Touch-sensitive buttons make the operation more precise.

**Intimate foot line design**  
Non-destructive to the foot line design, will not destroy the harmonious beauty of your bedroom space.

**Super long Surround dimensional air supply**  
Cross controlled wind guide blades can achieve three-dimensional wind supply and also can position the wind at any desired angle of wind direction. The air will be delivered comfort to every corner of the room. Even as far as 15 meters, you can also feel comfortable.

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

Features

Patent Super Silence Technology

Controllable Air optional Electric Heating (Operation)

Strong Independent Dehumidification

Anti Cool Air Function

Independent Ventilation Button

Backlight Remote Control

24 Hour Timer

Wide Voltage Start

Independent Digital Display Button

Intelligent Defrost

Wide Climate Design

Performance	Model	CF-18R/GC1d-1	CF-24R/GC1d-1	CF-18R/VF3d-2	CF-24R/VF3d-2
Refrigerant		R22	R22	R22	R22
Cooling Capacity	Btu/h	18000	24600	18000	24600
Heating Capacity	Btu/h	18000	26000	18000	26000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	1515	2250	1610	2400
Rated Heating Power Input	W	1450	2150	1500	2450
Rated Cooling Operating Current	A	7.0	10.5	7.5	11.2
Rated Heating Operating Current	A	6.8	10.0	7.0	11.4
Air Flow Volume(indoor)	m <sup>3</sup> /h	850	1000	850	1000
Noise Level	(dB(A))				
	Indoor	39/42/45	45/48/51	39/42/45	45/48/51
	Outdoor	55	60	55	60
Net Dimensions	WxDxH				
	Inside (mm)	500x285x1780	500x285x1780	500x285x1780	500x285x1780
	Outside (mm)	823x275x646	950x360x853	823x275x646	950x310x745
Net Weight	(kg)	Indoor/Outdoor	36/50	38/75	37/54
Packing Dimensions	WxDxH				
	Indoor (mm)	690x425x1915	690x425x1915	690x425x1915	690x425x1915
	Outdoor (mm)	980x400x730	1125x490x1010	980x400x730	1125x420x875
Gross Weight	(kg)	Indoor/Outdoor	44/55	46/83	45/62
Pipe Size					
	Liquid	1/4"	3/8"	1/4"	3/8"
	Gas	1/2"	5/8"	1/2"	5/8"
Applicable Area	m <sup>2</sup>	20-37	30-58	20-37	30-58
Loading Quantity	(set)	32/68/78	23/48/52	32/68/78	28/59/70

Performance	Model	CF-18R/VF3-5	CF-24R/VF3-5	CF-24R/VF3Wa-5	CF-36R/VF3-5	CF-36R/VF3-5
Refrigerant		R22	R22	R410a	R22	R22
Cooling Capacity	Btu/h	18000	24600	24600	30000	36000
Heating Capacity	Btu/h	18000	26000	26000	30000	36000
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	1900	2750	2550	3350	4150
Rated Heating Power Input	W	1860	2600	2390	3450	4250
Rated Cooling Operating Current	A	8.7	13.1	12.0	16.2	18.8
Rated Heating Operating Current	A	8.6	12.1	11.0	16.6	19.3
Air Flow Volume(indoor)	m <sup>3</sup> /h	850	1000	1000	1000	1000
Noise Level	(dB(A))					
	Indoor	41/44/47	45/48/51	45/48/51	47/50/53	47/50/53
	Outdoor	57	60	60	62	62
Net Dimensions	WxDxH					
	Inside (mm)	500x285x1780	500x285x1780	500x285x1780	500x285x1780	500x285x1780
	Outside (mm)	760x259x537	823x275x646	950x310x745	950x310x745	950x360x853
Net Weight	(kg)	Indoor/Outdoor	37/40	39/83	39/53	40/80.5
Packing Dimensions	WxDxH					
	Indoor (mm)	690x425x1915	690x425x1915	690x425x1915	690x425x1915	690x425x1915
	Outdoor (mm)	896x352x600	980x400x730	1125x420x875	1125x420x875	1125x490x1010
Gross Weight	(kg)	Indoor/Outdoor	45/45	47/71	47/65	48/86.5
Pipe Size						
	Liquid	1/4"	3/8"	3/8"	3/8"	3/8"
	Gas	1/2"	5/8"	5/8"	5/8"	5/8"
Applicable Area	m <sup>2</sup>	20-37	30-58	30-58	45-65	55-76
Loading Quantity	(set)	20/40/101HQ	38/80/90	32/68/78	28/59/70	23/48/52

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### Chunlan innovative technologies

#### Inverter potential optimization technology

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



#### System balance technology

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



#### Modal analysis technology

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

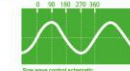


#### International leading vector control chip



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

#### 180 ° vector DC inverter control technology



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

### Features



Patent Super Silence Technology



Controllable Accessorial Electric Heating(Option)



Strong Independent Dehumidification



Anti Cool Air Function



Independent Ventilation Button



Backlight Remote Control



24 Hour Timer



Wide Voltage Start



Independent Digital Display Button



Intelligent Defrost



Wide Climate Design

Performance	Model	CF-18R/VF4BPdWa-2	CF-24R/VF4BPdWa-2	CF-18R/GC1BPdWa-3	CF-24R/GC1BPdWa-3
Refrigerant		R410a	R410a	R410a	R410a
Cooling Capacity	Btu/h	18000(4100-20500)	24600(6800-26600)	18000(4100-20500)	24600(6800-26600)
Heating Capacity	Btu/h	19100(5100-22200)	27500(8500-29000)	19100(5100-22200)	27500(8500-29000)
Power supply	Ph, V~, Hz	1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W	1450(400-1900)	2350(450-3000)	1690(400-2200)	2750(550-3100)
Rated Heating Power Input	W	1700(400-2200)	2450(430-3000)	1800(400-2300)	2700(530-3000)
Rated Cooling Operating Current	A	6.7(1.8-8.6)	10.9(2.1-14.0)	7.8(1.8-10.0)	12.8(2.6-14.5)
Rated Heating Operating Current	A	7.8(1.8-10.0)	11.4(2.0-13.6)	8.3(1.8-10.5)	12.5(2.5-14.1)
Air Flow Volume(indoor)	m³/h	850	1000	850	1000
Noise Level (dB(A))					
	Indoor	39/42/45	45/48/51	39/42/45	45/48/51
	Outdoor	53	56	53	56
	Inside (mm)	500x285x1780	500x285x1780	500x285x1780	500x285x1780
Net Dimensions	WxDxH				
	Outside (mm)	760x259x663	950x310x745	760x259x663	950x310x745
Net Weight	(kg)				
	Indoor/Outdoor	36/38	38/58	36/37	38/56
Packing Dimensions	WxDxH				
	Indoor (mm)	690x425x1915	690x425x1915	690x425x1915	690x425x1915
	Outdoor (mm)	896x352x712	1125x420x875	896x352x712	1125x420x875
Gross Weight	(kg)				
	Indoor/Outdoor	44/43	46/66	44/42	46/64
Pipe Size	(inch)				
	Liquid	1/4"	3/8"	1/4"	3/8"
	Gas	1/2"	5/8"	1/2"	5/8"
Applicable Area	m²	20-37	30-58	20-37	30-58
Loading Quantity	(set)	20/40/40HQ	35/75/88	30/60/70	35/75/88

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Window Air Conditioners



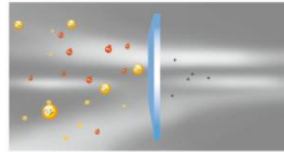
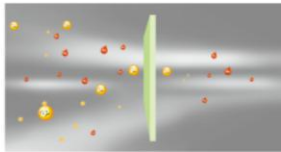
A



B

#### High-density air filters

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



#### Features



Wide Voltage Start



High quality internal threaded copper pipe



Timer



Fresh Air



Multi Dimensional Air Circulation



Brand name and high efficiency compressor

Performance		Model	CW-09H2	CW-12H2	CW-18H1	CW-18RH1
Refrigerant			R22	R22	R22	R22
Cooling Capacity	Btu/h		9000	12000	18000	18000
Heating Capacity	Btu/h					18000
Power supply	Ph, V~, Hz		1, 220, 50	1, 220, 50	1, 220, 50	1, 220, 50
Rated Cooling Power Input	W		1060	1330	2100	2200
Rated Heating Power Input	W					2000
Rated Cooling Operating Current	A		5.1	6.3	9.9	10.5
Rated Heating Operating Current	A					9.5
Air Flow Volume(indoor)	m <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 × D × H	mm		520×495×340	520×495×340	756×660×436	756×660×436
Net Weight	kg		29	31	58	72
Packing Dimensions W × D × H	mm		610×576×435	610×576×435	850×750×525	850×750×525
Gross Weight	kg		32	35	64	78
Applicable Area	m <sup>2</sup>		12-17	16-25	24-40	24-40
Loading Quantity (set)			20/40/40HQ	178/378/454	84/168/208	84/168/208

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

- 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 generation, insulation level, height of the building, the size and amount of the doors and windows, so that the applicable area is just for reference.
- Chuaner 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.