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Haier (China) Air Conditioning Co., Ltd.

Haier (China) Refrigeration Co., Ltd.

Haier (China) Water Heating Co., Ltd.

Haier (China) Home Appliances Co., Ltd.

Haier (China) Commercial Appliances Co., Ltd.

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Haier
Inspired living

2011 General Catalogue



Haier
Inspired living

Haier Group



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2011.11.15.01



Haier Air Conditioning
2011 General Catalogue



Incorporation and Development

Incorporated in 1984 in Qingdao, Haier is now the white goods brand in the world that occupies the largest market share. It is committed to creating value for global users and becoming a wonderful life solution provider.

Mr. Zhang Ruimin, Chairman of the Board of Directors and CEO, is the main founder of Haier Group. Under the guidance of his "innovative" strategy, Haier has implemented famous brand strategy, diverse business strategy and international strategy. At the end of 2005, Haier entered the fourth strategic development stage—the strategic stage of global brand building.

Market and Network

Haier Group has established 29 manufacturing bases, eight R&D centers and 19 overseas trading companies worldwide and now employs more than 60,000 people worldwide. Its marketing, R&D and production networks are distributed in China, USA, Italy, Thailand and other global markets.

In Feb. 2005, the world famous research organization Euromonitor released that Haier ranked 1st among global white goods brands, occupying a market share of 6.1%. This is the first time that China white goods brand became the brand in the world that occupies the largest market share. In addition, Haier refrigerator and Haier washing machine also ranked 1st in the industry with global market share of 10.4% and 8.4% respectively. Moreover, Haier leads the world in total part home appliances integration, network household appliances, digitalization, large size, integrated control and new materials.

In 2000, the brand value of Haier amounted to RMB 21.2 billion. Since 2002, Haier has topped the Most Valuable Brand List for eight consecutive years. Nineteen Haier brand products, including refrigerator, air conditioner, washing machine, television, water heater, computer, mobile phone and home appliances integration, have been awarded as Chinese Famous Brand products. Haier refrigerator and washing machine are among the first group of Chinese World Famous Brand Products awarded by the General Administration of Quality Supervision, Inspection and Quarantine of the P.R.C.

In March 2008, Haier was ranked as one of the "China's Top 10 Global Brands" by Financial Times for the second time. In June 2008, Forbes released the world's "500 Most Valuable Companies", of which Haier ranked the 13th and the 1st

among Chinese companies. In July 2008, Haier ranked the first in terms of overall leadership among Chinese mainland companies in the Wall Street Journal Asia's annual survey of "Asia's 200 Most Admired Companies" for the 17th time. In April 2010, Business Week released the "List of 50 Most Innovative Enterprises in 2010", and Haier is the only Chinese home appliance enterprise in the list.

Haier has established marketing network, logistics network and service network at global market. In addition, it has established over 1,000 Haier community shops in key cities, over 6,000 franchised stores in counties, over 24,000 points of sale in towns and over 70,000 village liaison stations. It has logistics stations in over 2,000 counties, and has over 17,000 after-sale service centers. The network enabled Haier to realize selling products to villages, delivering products to the doorstep, offering service in users' home and just in time in domestic market. At present, its inventory turnover is only five days, shorter than 1/10 of the average turnover of China home appliance industrial companies. The marketing, logistics and service network of Haier attracts international brands to exchange resources with it. GE, HP and other international brands have begun to sell through the network of Haier in Chinese market.

R&D and Innovation

Up to the end of 2009, it has applied for 40,000 patents in total, among which there were 2,488 inventions, ranking 1st among Chinese home appliance enterprises. In 2009, Haier applied for 843 patents, 426 of which were invention patents. On average, two patents were applied for each business day. Haier is the household appliance company that has been involved in the largest number of international, national and industrial standards in China. It has been involved in formulating and revising 267 Chinese national standards, among which 100 standards have been promulgated and ten won China Standards Innovation & Contribution Award. Haier has been involved in formulating 647 industry standards and other standards. On the basis of independent intellectual property, Haier has been involved in formulating 23 international standards, among which eight standards, such as power-free wash technology and technology of kneaded, will have been promulgated.

Haier is the only enterprise from developing country that has become one member of the top management of International

Electric Technical Commission (IEC). In June 2009, Haier was selected by IEC as the first "practice base for standard innovation" in the world.

Management Innovation

"OEC Management", which was worked out by Haier at the initial period after it was incorporated, became the corner stone for it to conduct concrete management over the past 20 years. In order to respond to users' demand fast in Internet era, Haier worked out individual order, combinal on-win-win mode, among which "individual" refers to employees conducting independent operation and "order" refers to competitive market objectives. Employees realize their own value with creating value for users, so that the win-win is achieved among users, clients, employees and the enterprise.

The management innovation of Haier attracts the attention of international management circle. At present, Harvard University, University of Southern California, International Institute for Management Development (IIMD), European Business College, Kobe University and other overseas schools are researching on it. In addition, over 30 management cases of Haier have been incorporated into the case library of 10 universities in the world, among which the management case entitled "Haier culture to achieve the best in sheets" has been incorporated into the case library of Business School, Harvard University, and the case of market chain management has been incorporated into IIMD case library.

Haier actively shoulders its social responsibilities, donating to establish 124 Hope Primary Schools and producing 212-episode children science education cartoon Haier Brothers. In addition, it is the only white goods sponsor of the Beijing 2008 Olympic Games.

Haier group
2011

Haier Air Conditioning
2011 General Catalogue

Brief introduction to Haier group



Haier ACG: a supplier of Comfortable Air and Energy Saving Solutions (7m² to 3D,000m²)

ACG (Air Conditioning Group) consists of three branches: Residential air conditioner division, Commercial air conditioner division and Mitsubishi Heavy-Haier air conditioner division. Among these, Haier Residential air conditioner is China's biggest manufacturing base for Free-free DC Inverter air conditioner. Commercial air conditioner has China's most complete product categories. Mitsubishi Heavy-Haier is one of the world's strongest enterprises with the most advanced technology in the gas saving, environmental protection and intelligent control.

Haier ACG is one of the world's biggest HVAC manufacturer with full range products that provide the cooling, heating and ventilation solution for residential, commercial and industrial application, covering MRV, MULTI, PAC+, Chiller and split type, window type, cabinet type, motion type, etc. etc.

• **Professional Manufacturing**
Haier ACG has 15 production bases all over the world and could satisfy consumers' needs with speedy actions. 8 domestic production bases are located in Qingdao, Zibo, Jiefel, Wuhan, Chongqing, Jiaonan, Huangdao and Mitsubishi Heavy-Haier.

6 overseas production bases are located in Pakistan, Tunisia, Jordan, India, Thailand, Bangladesh, Nigeria and Algeria.

• **Professional Design**
Haier ACG has its own central research department, which contains 48 authorized laboratories, including world's leading environmental simulation lab, noise lab, EMC lab and so on. Haier ACG has 11 research centers and 13 research centers, which are located in US, Germany, Dutch, Australia, Korea and Japan such developed countries.

Haier air conditioner has occupied the mainstream marketing channels over the world. Taking the health, the energy conservation and environmental protection as a subject, Haier ACG persists in independent innovation as well as creating users' demand and winning the trust of users over the world with diverse products, advanced technology and consummate service. Haier ACG is aiming to create and consolidate her brand image as an expert and a leader in the industry for comfortable air and energy saving solutions.

RAC Milestones

Technology Update

- 1987: Developed China's first split air conditioner
- 1987: Developed China's first inverter air conditioner
- 1987: Developed China's first dual split AC inverter air conditioner
- 1987: Developed first 3-gate DC inverter air conditioner in the world with Healthy Factor
- 2007: Developed 1000 series wide DC inverter
- 2007: Developed free motion DC inverter series for energy saving
- 2007: Developed first DC dual split air conditioner series
- 2007: First IFC design awarded, one of 50 most advanced products in the world
- 2007: Developed the first high efficiency inverter type (Pro Power)
- 2007: Developed 5200 technology, power saving by 50%
- 2009: First Germany tender design award
- 2010: Invented Air-Treat-free DC Inverter air conditioner, Air-AC inverter air conditioner

Global Expansion

- 1997: Started overseas business and export air conditioner to Europe
- 1999: Started to export air conditioner to USA and ranked top three (Green economy) "100 brands" in the 1 hour and has been awarded as "The Year's Best" from 2007
- 2002: United States market (ing base in Nigeria and become No. 4 from 2005)
- 2004: Started to export air conditioner to Japan and ranked No. 1 in 11 time
- 2007: United States market (ing base in Pakistan and Bengal)
- 2007: United States market (ing base in Turkey and ranked as No. 7 in 2008)
- 2007: Ranked as No. 1 in top 10 market and ranked No. 1 in the world
- 2007: Started to export air conditioner to Korea and won 412 brands in 1 hour in 11 shopping
- 2007: United States market (ing base in Korea)
- 2007: Ranked as No. 1 in 10 countries and ranked No. 1 in 11 time
- 2007: United States market (ing base in Thailand)
- 2007: Ranked as No. 1 in 10 countries and ranked No. 1 in the world
- 2007: United States market (ing base in Thailand)
- 2007: Ranked as No. 1 in 10 countries and ranked No. 1 in 11 time

CAC Milestones

- in 1994, launched the first set of window type
- in 1995, produced refrigeration special air conditioner, insulate air quality and technology innovation
- in 1997, released the first set of inverter air conditioner
- in 1997, launched the first set of cabinet type split
- in 1997, produced single compressor one by two systems
- in 1998, released the first set of inverter one by two split system, which was named the second generation of the business "Science and Technology". At the same time, inverter type, inverter type air conditioner came to the world
- in 1997, released healthy negative ion air conditioner, meeting market's new demand
- in 1998, began to produce MRV system with the cooperation with Toshiba and it, speedily exported inverter technology to European countries
- in 2001, MRV volume reached 100,000 sets
- in 2001, Haier Air Conditioner Euro Corp. Ltd came into being
- in 2002, Entered American market
- in 2002, Released the first flexible variable volume water chiller system, took a pioneer's share in USA
- in 2002, Haier CAC total volume up to 100,000 sets in Europe
- in 2005, Haier CAC released R410A DC Inverter free compressor system KASR II, made great success in Europe
- in 2006, Haier CAC released the inverter centrifugal chiller with inverter technology and R410A DC Inverter MRV systems
- in 2007, Haier CAC won the bid of 30 projects of Beijing Olympic Games
- in 2008, Haier CAC's 33 Beijing Olympic Games Projects got excellent reputation from customers all over the world. Haier DC Inverter R410A MRV entered over 16 countries with great success
- in 2009, Haier CAC introduced more advanced Air-Treat-free DC Inverter air conditioner, Air-AC inverter air conditioner and inverter type variable MRV system which has the highest COP
- Haier CAC HVAC industry continues to improve due to its best response to the market's demand and the excellent service for the customers.
- In China market, Haier CAC has a rich experience of big projects projects. Haier CAC appears in airports, hotels, hospitals, residences, business offices and universities. Haier CAC has 48% share of the PRC market according to "Building energy" in overseas market. Haier CAC has more projects in more than one hundred different countries in Asia, Europe, Americas and Australia. In 2002, Haier CAC participated in Olympic Market in Athens, Greece. In 2004, Greece premier announced to use Haier multi inverter system. In 2005, Haier CAC conducted entered domestic home use in American west coast and built up strategic cooperation with European Construction Company.

Haier Air Conditioning 2011 General Catalogue

Brief introduction to Haier ACG group

Status

16 manufacturing bases.
8 research and developing centers.
10 research partner institutions.
46 authorized labs.
Capacity 18million sets per year.

Achievements

IF and reddot awards winner.
Top Supplier for world's NO.1 retailer.
"The Best Buy" in USA.
Winner of the UN purchase order.
Remain NO.1 in Cyprus for 10years.
The only self-brand in Japan from 2001.
Sponsor for 2004 Athens and 2008
Beijing Olympic Games.



Residential
001-040

Multi upgrade
041-068

069-112
(Unitary Smart)
Commercial

113-156
MRV II

**Haier Air Conditioning
2011 General Catalogue**

Contents

Energy saving



Energy class A+
 One of the most advanced energy-saving technologies.



Energy class A
 A more advanced energy-saving technology.



ECO icon
 Eco icon, which can save energy and reduce noise. It is a more advanced energy-saving technology.



EHR icon
 Energy-saving icon, which can save energy and reduce noise. It is a more advanced energy-saving technology.

Intelligent & Comfort



Quickstart
 By using the intelligent start function, the air conditioner can start up quickly and reach the set temperature in a short time.



Sleep icon
 The intelligent sleep function can adjust the temperature and fan speed automatically according to the user's sleep habits.



Online icon
 The intelligent online function can connect the air conditioner to the internet, allowing you to control it remotely.



Auto icon
 The intelligent auto function can automatically adjust the temperature and fan speed according to the current indoor temperature and humidity.



Humidity icon
 The intelligent humidity control function can maintain the indoor humidity at a comfortable level.



Eco icon
 The intelligent eco function can save energy and reduce noise.



De-ice icon
 The intelligent de-ice function can automatically defrost the evaporator coil, ensuring the air conditioner runs smoothly.



Power icon
 The intelligent power icon can save energy and reduce noise.



Filter icon
 The intelligent filter icon can remind you to replace the filter in time.



Smart icon
 The intelligent smart icon can connect the air conditioner to the internet, allowing you to control it remotely.



Control icon
 The intelligent control icon can adjust the temperature and fan speed automatically.



Auto icon
 The intelligent auto icon can automatically adjust the temperature and fan speed.



Humidity icon
 The intelligent humidity icon can maintain the indoor humidity.



Eco icon
 The intelligent eco icon can save energy and reduce noise.



De-ice icon
 The intelligent de-ice icon can defrost the evaporator coil.



Power icon
 The intelligent power icon can save energy and reduce noise.



Filter icon
 The intelligent filter icon can remind you to replace the filter in time.



Smart icon
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Control icon
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Auto icon
 The intelligent auto icon can automatically adjust the temperature and fan speed.



Humidity icon
 The intelligent humidity icon can maintain the indoor humidity.



Eco icon
 The intelligent eco icon can save energy and reduce noise.

Health



Fresh icon
 The intelligent fresh icon can purify the air and remove odors.



Quick icon
 The intelligent quick icon can start up quickly and reach the set temperature.



ECO icon
 The intelligent eco icon can save energy and reduce noise.



Eco icon
 The intelligent eco icon can save energy and reduce noise.



Fresh icon
 The intelligent fresh icon can purify the air and remove odors.



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Fresh icon
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Convenient



Fresh icon
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Design



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Fresh icon
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Haier Air Conditioning 2011 General Catalogue

Icon guide



RESIDENTIAL

Energy Saving

High performance compressor

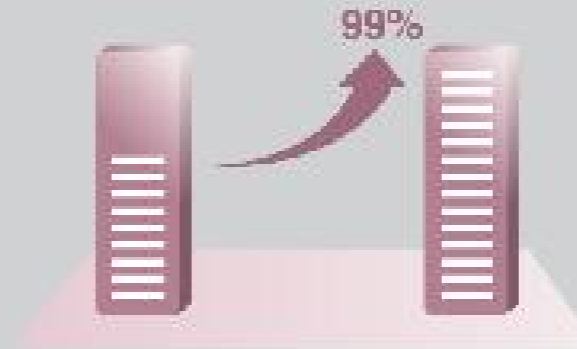
Haier is developing its competitive market leading technologies to facilitate the comfort and requirements of its customers in their daily life. Haier is developing new high performance inverter air conditioners. Models with new digital DC inverter compressors reduce electrical loss from the power source, thus increasing maximum power input. This naturally increases the minimum air conditioner output, so you enjoy more comfort.



- Lower noise
- Lower vibration
- Higher efficiency

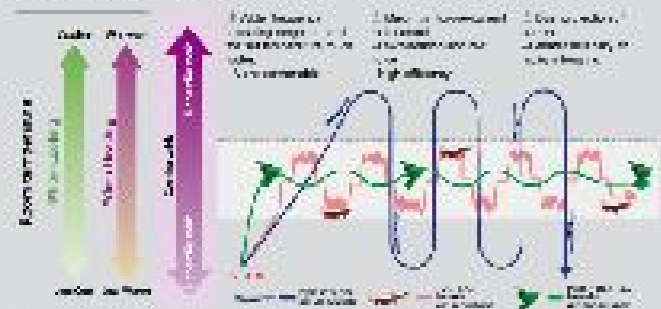
New Active PFC technology

Improve the efficiency of power supply to 99%. Lift the voltage of main wire, and make compressor works stably.



180° sine wave DC inverter control technology

The technology of 180° sine DC inverter adjusting speed and vector control is an air conditioner control technology with world leading level which cannot be replaced by 120° control means, and it will become the dominant technology in air conditioner control field.



- Lower noise
- Lower vibration
- Longer life
- High efficiency

Haier air conditioner with 180° sine wave current DC inverter technology will give you an excellent service for a long long time.

DC motor

Multi-level of speed control, lower energy consumption, lower noise, what will help you enjoy more comfort.



Precise system control technology

With temperature monitor in each area and electric expansion valve control, the chips will adjust the status of supercooling and overheating exactly. To make air conditioner work efficiently according to different situation and different combination.



Energy		A
Min. input power Compressor Indoor unit		
More efficient		
A		
B		
C		
D		
E		
F		
G		
Less efficient		
Annual energy consumption Min. cooling room Multi-zone control, cooling power for each room is adjustable		410
Cooling output	KW	2.63
Energy efficiency ratio of cooling room		3.21
Mode	Cooling only	—
	Cooling+heating	←
	Auxiliary cooling	←
	Heating only	—
Heat output	KW	3.32
Heating performance ratio	Heating	A++ (1.66)
Noise Indoor (1m)		
Further information is contained in product literature		
More info: 140- A conditioner Energy label: 140-140-140		

Class of energy efficiency cooling	Class of energy efficiency heating
A++	3.00 < COP < 3.50
A+	2.60 < COP < 3.00
A	2.20 < COP < 2.60
B	1.80 < COP < 2.20
C	1.40 < COP < 1.80
D	1.00 < COP < 1.40
E	0.60 < COP < 1.00
F	0.40 < COP < 0.60
G	0.20 < COP < 0.40

RESIDENTIAL

Technology & Function

Commercial
Residential

Commercial
Residential

Intelligent & Comfort

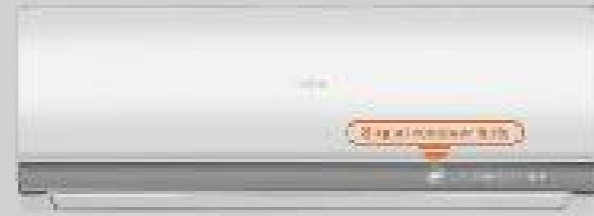
Super match

Haier super match air conditioner is a kind of causing a revolution, breaking the boundary of traditions. Residential and Commercial Air conditioner area.
By integrating intelligent technology of Haier A/C group, super match air conditioner, with universal indoor and outdoor units, made more intelligent and flexible choice of purchasing, more easy inventory management in every business.



I FEEL U

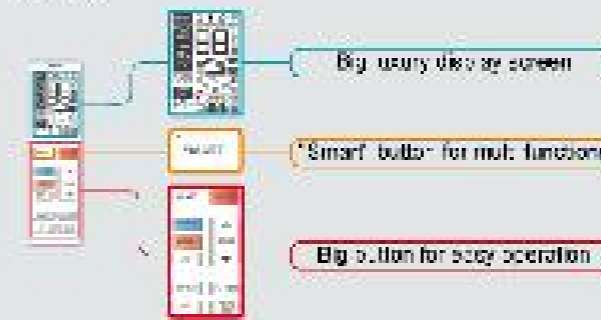
This series adopts two intelligent sensors, which could divide a room to 3 sections. By detecting number and location of people in the room it realizes the intelligent control of the air flow. You can freely choose the airflow to follow with your movements or avoid your body through remote setting. In addition, the temperature and air speed can be automatically adjusted according to the number of people and body movements to make comfort and energy saving.



Humanized remote controller

With the humanized operating concept, the common-use buttons - cooling/heating/FP (fan) are put on the fan cover of the remote controller while uncommon-use buttons are separated to be under front cover. This design makes operation more convenient.

This type also has big screen, in which the modes, temperature, airflow speed and direction are all shown clearly, people can get a general idea of the running state by one glance.



3D airflow

The 3D airflow is able to deliver the airflow horizontally and vertically. Press button on the remote controller can use multi-mode to prevent blowing the body directly.



Super quiet

Quieter than a whisper - When you press the POWER/SOFT button twice, the indoor unit will operate at a low quiet 22.5dB (A). You might not hear it operating which makes it ideal for bedrooms, living rooms, and anyplace you watch TV, listen or listen to music.



Intelligent air

To adopt the twin air outlet blades technology. According to the person's location in the following diagram, the person is able to select the direction in which the air flows out of the air conditioner, to avoid the air flow directly targeting the body. This prevents people from contracting air conditioning related symptoms.



RESIDENTIAL

Technology & Function

Commercial
Residential

Commercial
Residential

Healthy

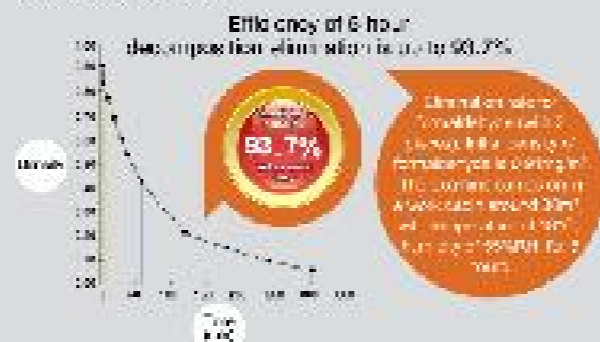
Principle

RCD (Room Temperature Catalytic Decomposition) is one kind of emerging technology of highly-effective purification of formaldehyde. Its main function is catalyzing and oxidizing the formaldehyde pollutant to water and carbon dioxide long-term steadily by absorbing heat in the air.



Eliminate noxious gas

The ceramic filter in RCD healthy module contains the new-developed nanometer honeycomb catalyst. Though the adsorption surface area of the ceramic filter is only 10cm², the effect can cover 1750m². It will fully catch and decompose almost all small molecules and macro-molecule gas. The RCD module can effectively eliminate harmful chemical gas such as formaldehyde and benzene, which come from house decoration, to purify air. It can strongly decompose the four kinds of each molecules, which are harmful for the daily life.



Easy maintenance

- You can easily clean the PP filter by washing and brushing.
- RCD healthy module can be cleaned by using the brush then blow it with the blower.
- You can use the RCD healthy module for 3 years approximately.



Super ionizer

An Abundance of Natural Negative Ion: 5,500ea/12,000 ions/cm³.

Haier Approx. 20,000 ions/cm³

The negative ion could fresh the air while supplying medical and health care, for which it is called the "Vitamin in the air". The negative ion could neutralize the excess positive ion, through which to improve human vital capacity and increase the body's immunity.

Just press the health button, your room is filled with refreshing ions.

Enjoy the feeling of a forest all time.



Air purifying filter

Bacteria-killing medium (Optional)

3-in-1 Effect: Anti-Allergen, Anti-Virus, Anti-Bacteria/Mold



The remarkable new Haier Bacteria-killing Medium Air Purifying Filter combines 3 effects in 1: anti-allergen, anti-virus and anti-bactericidal protection to keep your room air clean and healthy. It deactivates and protects you from dust mites, pollen viruses and bacteria.



Anti-mold filter

It catches most small dust particles and remove unpleasant odors. It is easily washable.



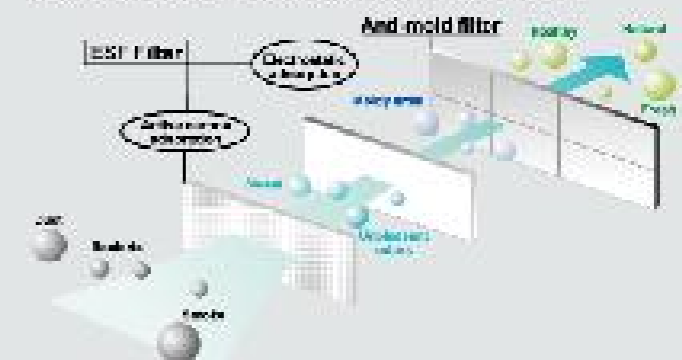
ESF Filter (Optional)

It eliminates kinds of odors and inactivates harmful chemicals/gas.



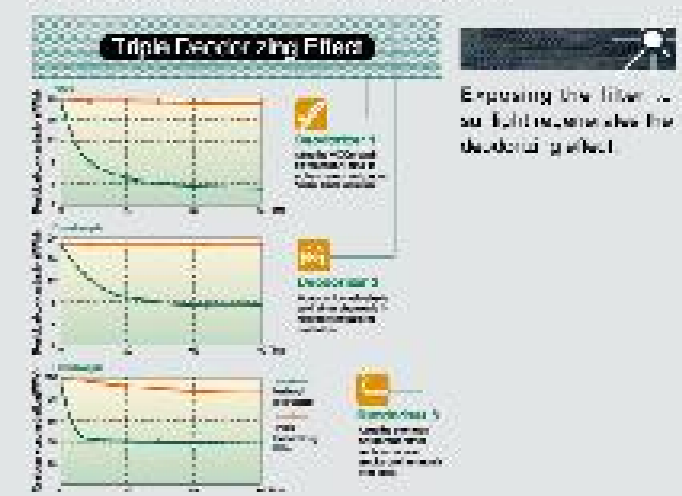
ESF filter & Anti-mold filter (Optional)

It adopts ESF filter and anti-mold filter which can trap harmful dust and remove unpleasant odors effectively purifying the air.



Photocatalyst filter (Optional)

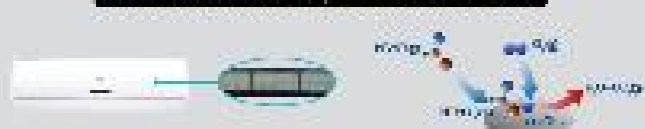
It eliminates the air of a wide variety of odor-causing substances from odorless fine particles to chemical vapors.



RCD healthy module (Optional)

RCD module of eliminating formaldehyde with high efficiency

Haier's 3-in-1 optional RCD module can strongly degrade formaldehyde released by chemical products, including building materials, decorating materials, furniture, etc. keeping harmful gas away from you.



RESIDENTIAL

Technology & Function

Smart Home
Residential

Smart Home
Residential

9K

12K

18K

24K

B+9K

B+12K

Intelligent

-DC-



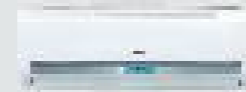
Intelligent
Nordic

-DC-



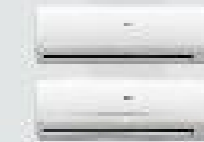
Nordic
LYRICA

-DC-



Family

-DC-

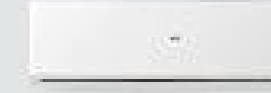


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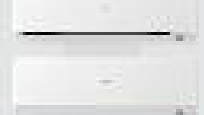
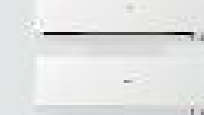
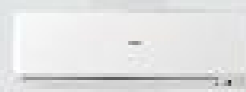


Home

-DC-



-18/31F-



Console

-DC-



RESIDENTIAL

Model lineup

Complete range of products for Residential

Complete range of products for Residential



Model	DC inverter			On/Off			
	45L D0R001R2150R1 45L D2R001R2150R1	F5U 004510R2150R1 F5U 12R001R2150R1	F5U 004510R2150R1 F5U 12R001R2150R1	45L D0R001R2150R1 45L D2R001R2150R1 45L D3R001R2150R1 45L D4R001R2150R1 45L D5R001R2150R1 45L D6R001R2150R1 45L D7R001R2150R1 45L D8R001R2150R1 45L D9R001R2150R1 45L D10R001R2150R1	F5U 004510R2150R1 F5U 12R001R2150R1 F5U 13R001R2150R1 F5U 14R001R2150R1 F5U 15R001R2150R1 F5U 16R001R2150R1 F5U 17R001R2150R1 F5U 18R001R2150R1 F5U 19R001R2150R1 F5U 20R001R2150R1	F5U 004510R2150R1 F5U 12R001R2150R1 F5U 13R001R2150R1 F5U 14R001R2150R1 F5U 15R001R2150R1 F5U 16R001R2150R1 F5U 17R001R2150R1 F5U 18R001R2150R1 F5U 19R001R2150R1 F5U 20R001R2150R1	F5U 004510R2150R1 F5U 12R001R2150R1 F5U 13R001R2150R1 F5U 14R001R2150R1 F5U 15R001R2150R1 F5U 16R001R2150R1 F5U 17R001R2150R1 F5U 18R001R2150R1 F5U 19R001R2150R1 F5U 20R001R2150R1
Energy saving	Energy A+	■	■	■			
	Energy A				■	■	■
	180° sine wave DC inverter	■	■	■	■	■	■
	Super match				■	■	■
	Super quiet	■	■	■			
	Error auto mode	■	■	■			
	Auto mode				■	■	■
Intelligent & Comfort	Soft mode	■	■	■	■	■	■
	Power mode	■	■	■	■	■	■
	4 fan settings	■	■	■	■	■	■
	Sleep mode	■	■	■	■	■	■
	I FEEL U	■	■	■	■	■	■
	Intelligent air	■	■	■	■	■	■
	3D airflow	■	■	■	■	■	■
	One-touch	optional	optional				
	Health						
	Health						
Convenient	ESF filter						
	Anti-mold filter						
	Easy clean design	■	■	■	■	■	■
	Evaporator self-cleaning	■	■	■	■	■	■
	Auto restart	■	■	■	■	■	■
	DRY function	■	■	■	■	■	■
	10°C heating maintenance		■	■	■	■	■
Design	Special defrosting design				■	■	■
	24-hour timer	■	■	■	■	■	■
	Child lock	■	■	■	■	■	■
*Double 8" display				■	■	■	
LED display	■	■	LCD	■	■	■	
Controlled LED display	■	■			■	■	

RESIDENTIAL

Function chart



I FEEL U

This series adopts two intelligent sensors, which could divide a room to 3 sections. By detecting number and location of people in the room, it realizes the intelligent control on the air flow. You can freely choose the airflow to follow with your movements or avoid your body through remote setting. In addition, the temperature and air speed can be automatically adjusted according to the number of people and body movements to realize comfort and energy saving.



Humanized remote controller

With the humanized operating concept, the common-use buttons (cooling/heating/PPM) are put on the front cover of the remote controller while uncommon-use buttons are separated to be under front cover. This design makes operation more convenient. This type also has big screen, in which the modes, temperature, airflow speed and direction are all shown clearly, people can get a general idea of the running state by one glance.



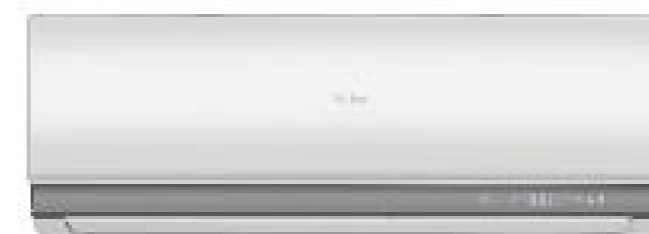
Concealed LED display

With the new innovated technology, the unit can indicate the operation status clearly and simply. Exclusively, the display turns to be concealed when the unit is off, which creates the stylish and consistent outlook.



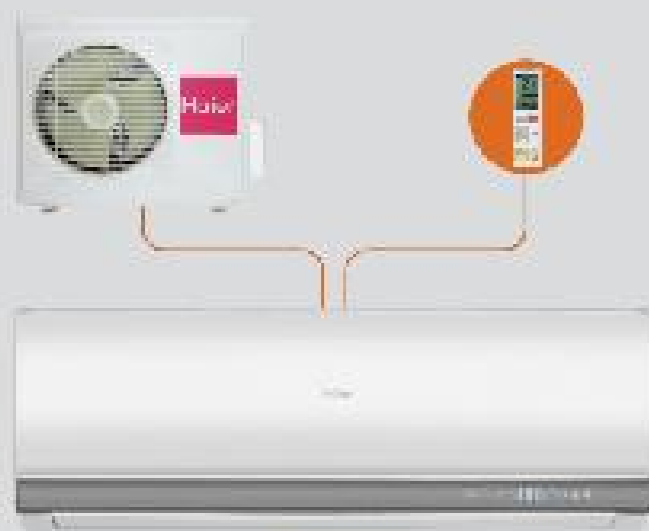
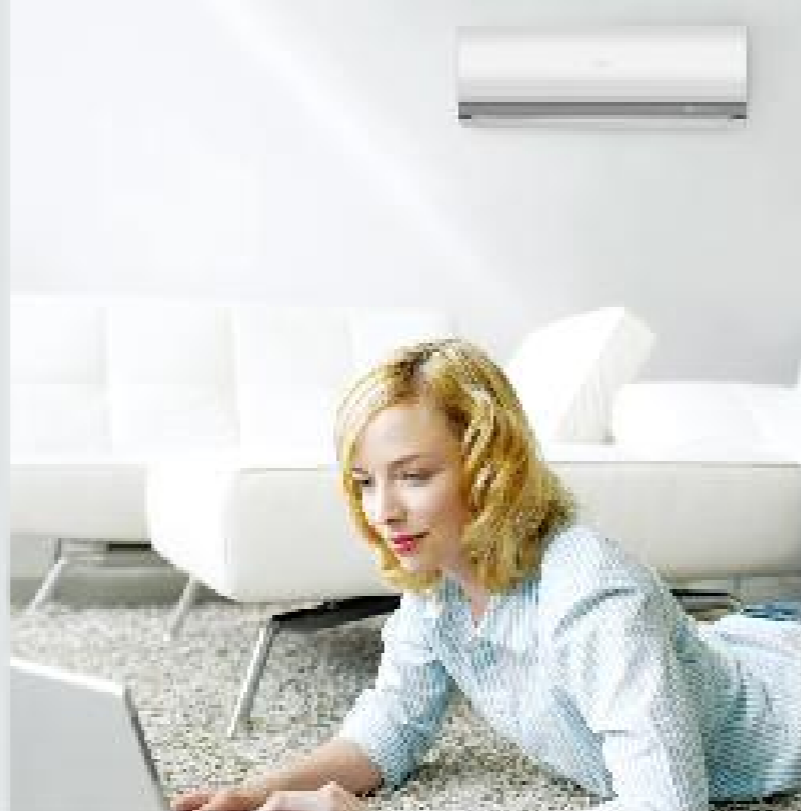
RESIDENTIAL

Intelligent series



Intelligent

- DC INVERTER



HSU-18K2DAG(DC)
HSU-24K2DAG(DC)

I FEEL U

By detecting number and location of people inside room, the airflow can be controlled automatically. You can freely choose the airflow follow or avoid your body by setting.

Energy class A+

Energy class A+ class of energy efficiency in cooling and heating is A+. Power saving by 59%.

Super quiet

Quieter than a whisper - When you press the POWERSOFT button twice, the indoor unit will operate at a soft quiet 22dB (A). You might not hear it operating which makes it ideal for bedrooms, living rooms, or anyplace you watch television or listen to music.

Intelligent series - DC inverter

Model		HSU-18K2DAG(DC)	HSU-24K2DAG(DC)
Capacity (kW)	Cooling	1730/1800-22000	2230/2400-28000
	Heating	1430/1500-19000	1930/2100-26000
Power input (kW)	Cooling	500/600-650	600/650- 800
	Heating	460/540- 600	500/540- 610
EER (kW) energy class		3.44	4.334
EER (kW) energy class		6.027	4.071
Operating noise (dB)	Cooling	10-13	10-13
	Heating	10-25	10-25
Running current (A)	Cooling	2.2	2.5
	Heating	2.1	4.1
Power supply (V/Hz/Ph)		110/50/1-φ	110/50/1-φ
A model operation		10	10
Maximum removal (l/hour)		2	2
Refrigerant		R22/12	R22/12
Refrigerant pipe	Line pipe diameter (mm)	6.35	6.35
	Gas pipe diameter (mm)	9.52	9.52
	Max length (m)	15	15
	Max height (m)	10	10
Refrigerant charge (g)		250	250
Weight (kg)		21	21
Indoor			
Net dimension (mm)		295.4x420x84	295.4x420x84
Mounting clearance (mm)		88.0x20.0	88.0x20.0
Net weight (kg)		4	4
Gross weight (kg)		14.5	14.5
Noise (dB(A))		24.0/20.0/17	24.0/20.0/17
Outdoor			
Net dimension (mm)		220.0x170.0	220.0x170.0
Package dimension (mm)		900.0x570.0	900.0x570.0
Net weight (kg)		4	4
Gross weight (kg)		17	17
Noise (dB(A))		37	40

*Capacity, EER, COP, SEER, HSPF, and other data are subject to change without notice for product improvement.
 †The actual noise level is subject to installation.
 ‡Capacity, power input, EER, COP, SEER, HSPF, and other data are subject to change without notice for product improvement.
 ††Refrigerant charge is R22/12, subject to R410A/R32.

RESIDENTIAL

Intelligent series





I FEEL U

This series adopts two intelligent sensors, which could divide a room to 3 zones. By selecting number and location of people in the room it realizes the intelligent control on the air flow. You can freely choose the airflow to follow with your movements or avoid your body through remote setting. In addition, the temperature and air speed can be automatically adjusted according to the number of people and body movements to realize comfort and energy saving.



10° heating maintenance

For some houses for holiday use, the room will not be occupied for some time. To protect articles from being damaged due to low temperature, the indoor temperature should be kept on a certain level. The heating maintenance function can not only prevent indoor materials from being damaged but can bring comforts to the consumers who can feel the temperature increasing to normal level as soon as they back to home.



Special defrosting design

If the outdoor unit is load due to the bad weather, Hiter air conditioner could automatically clean ice and more unit work normally.



Electrical heater system



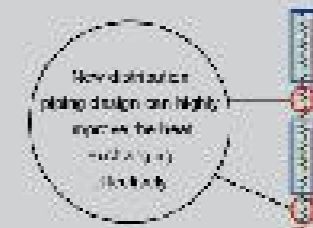
Electrical heater equipped on the compressor which can improve the compressor startup which save energy.



New improved electrical heating pipe with higher power up to 150W which can heat more effectively.

New designed bottom plate, a much easier to clean.

New designed refrigerant system



Special defrosting programme

- Auto defrosting: The unit will enter defrosting model if its sensor detects the risk of icing.
- Fixed period of defrost: It can make the units enter defrosting after a fixed period by force to thaw the ice attached on and around the units. And the ice caused by Nordic sharp heavy snow and ice rain can block units draining but uneasy to feel through outdoor temperature sensor.

RESIDENTIAL

Intelligent series (Nordic)



Intelligent Nordic

DC
INVERTER



HSU-28R500/28D500
HSU-35R500/35D500

Energy class A+

Energy class A+ class of energy efficiency in cooling and heating is A+
Power saving by 58%

Super quiet

Quieter than a whisper - When you press the POWER/SOFT button twice, the indoor unit will operate at a soft sound 22[dB(A)]. You might not hear it, operating which makes it ideal for bedrooms, living rooms, or anywhere you watch television or listen to music.

HDPE

This material has specialties such as acid and alkali resistant, excellent heat and cold resistance, good chemical stability, as well as good stiffness and ductility, which is not that easy to be broken.

Intelligent series (Nordic) - DC inverter

Model		HSU-28R500/28D500	HSU-35R500/35D500
Capacity (kW)	Cooling	17.0(20.0)-42.0(48.0)	22.0(26.0)-44.0(51.0)
	Heating	17.0(20.0)-42.0(48.0)	22.0(26.0)-44.0(51.0)
	Cooling	50(150)-100	60(150)-100
	Heating	40(120)-70(180)	40(120)-70(180)
EEER (kW) energy class		5.1(5.8)	4.3(5.1)
SEER (kW) energy class		6.1(7.1)	4.7(5.7)
Operating ratio (%)	Cooling	12-13	12-13
	Heating	13-25	13-25
Running current(A)	Cooling	2.0	2.1
	Heating	1.5	1.7
Power supply (V/Hz/Ph)		110-220V/50 Hz	110-220V/50 Hz
Auto restart (min)		10	10
Refrigerant (R410A)		2	2
Refrigerant	Refrigerant	R410A	R410A
	Line side diameter (mm)	6.35	6.35
	Gas side diameter (mm)	9.52	9.52
	Max length (m)	15	15
Refrigerant pipe	Max height (m)	10	10
	Max slope (%)	150	150
	Max TDH (m)	30	30
	Type	4-10mm	4-10mm
Indoor			
Indoor size (mm)	WxH	295.5x420x85	295.5x420x85
Max weight (kg)	WD	14.5/15.0/14	14.5/15.0/14
Indoor depth (mm)		15.0	15.0
Max weight (kg)		14.5	14.5
Indoor (R410A) (kg)		2.4/2.5/2.4	2.4/2.5/2.4
Outdoor			
Outdoor size (mm)	WxH	330.5x470x85	330.5x470x85
Package dimension (mm)	WDH	350.5x490x110	350.5x490x110
Outdoor depth (mm)		40.0	40.0
Max weight (kg)		30	30
Indoor (R410A)		3.0	3.0

Notes: Data is applicable for standard conditions and actual conditions are subject to actual conditions for product development.
 *The actual data is subject to actual conditions.
 †Capacity is based on the standard conditions: indoor temperature 27°C, outdoor temperature 35°C, humidity 50%.
 ‡Refrigerant is based on R410A, outdoor temperature 35°C, humidity 50%.

RESIDENTIAL

Intelligent series (Nordic)





-15°C running function

Apply to cool some special places like machines rooms or pub, even if the outdoor temperature is down to -15°C.



Special defrosting design

If the outdoor unit is iced due to the bad weather, Haler air conditioner could automatically clean ice and make unit work normally.



Electrical deicer system



Electrical deicer equipped on the compressor which can protect the compressor when cold. White.



- New improved electrical heating pipe with higher power up to 120W which can defrost effectively.
- New designed bottom panel is much easier to clean.

10°C heating maintenance

For some houses for holiday use, the room would not be occupied for some time. To protect articles from being damaged due to low temperature, the indoor temperature should be kept on a certain level. The heating maintenance function can not only prevent indoor materials from being damaged, it also being convenient to the users, users who can feel the temperature increasing to normal level in a short while back to home.



New designed refrigerant system



Special defrosting programme

- Auto defrosting: The unit will enter defrosting model if its sensor detects the risk of icing.
- Fixed period of defrost: It can make the unit enter defrosting after a fixed period by force, to thaw the ice attached on and around the units. And the ice caused by Nordic sharp heavy snow and ice rain can blade units making our users easy to feel through outdoor temperature sensor.

RESIDENTIAL

Lyrica series (Nordic)



Nordic LYRICA DC INVERTER



HSU-09HYU03R2(S-D0)
HSU-12HYU03R2(S-D0)

Energy class A+

Energy class A+ class of energy efficiency in cooling and heating in A+
Power saving by 58%

Negative IONs

Enjoy the feeling of a forest at home. Just press the health button, your room is filled with refreshing ions.

Healthy UV ray

UV ray generator can eliminate and prevent bacteria in air effectively.

Lyrica series (Nordic) - DC Inverter

Model		HSU-09HYU03R2(S-D0)	HSU-12HYU03R2(S-D0)
Capacity (kW)	Cooling	2200W(0.75kW)	2800W(0.82kW)
	Heating	2300W(0.67kW)	2800W(0.82kW)
Power input (kW)	Cooling	106.92~107.7	107.123~108
	Heating	97.123~108	97.123~108
EER (kW energy class)		2.0581	2.0581
SEER (kW energy class)		5.5871	4.8871
Operating limits (°C)	Cooling	17~43	17~43
	Heating	-15~24	-15~24
Running current(A)	Cooling	2.4	2.6
	Heating	2.4	2.6
Power supply (V/Hz/Ph)		110V/50/1-φ	110V/50/1-φ
Air speed (m/s)		5.0	5.0
Reference sound (1/2m)(dB)		4	4
Reference sound (1/1m)(dB)		19.12A	19.12A
Pollution level	Classified bacteria (no.)	0.35	0.35
	Classified dust (no.)	0.35	0.35
	Maximum PM10	10	10
	Maximum PM2.5	10	10
Refrigerant charge (kg)		1.06	1.06
Refr. R410A (kg)		1.06	1.06
In Unit			
Net dimension (mm)		WxDxH	285*210*210
Packaging dimension (mm)		WxD	960*305
Net weight (kg)			10.1
Gross weight (kg)			15
Noise (dB(A)/1m distance)			47~54/41
Out Unit			
Net dimension (mm)		WxDxH	205*450*91
Packaging dimension (mm)		WxD	600*120*4
Net weight (kg)			4
Gross weight (kg)			7.6
Noise (dB(A))			5

HSU-09HYU03R2(S-D0) and HSU-12HYU03R2(S-D0) are the product models of the Lyrica series (Nordic) DC Inverter air conditioner. The actual performance may vary due to the difference in the installation environment. The actual performance may vary due to the difference in the installation environment. The actual performance may vary due to the difference in the installation environment.

RESIDENTIAL

Lyrica series (Nordic)





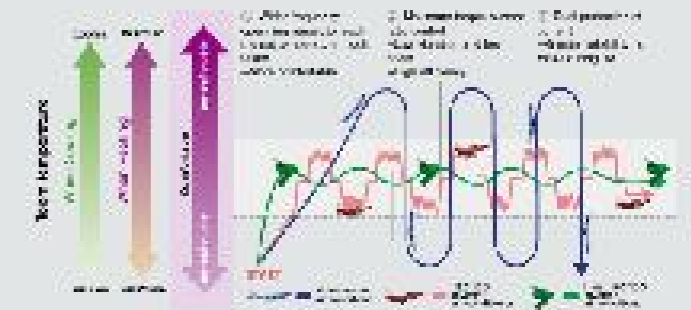
Super match

Haier super match air conditioner is a kind of crossing a void line, breaking the boundary of traditional Residential and Commercial Air conditioner area. By integrating intelligent technology of Haier AVU group, super match air conditioner with universal indoor and outdoor units, make more intelligent and flexible choices on purchasing, make easy inventory management to every customer.



180° sine wave DC inverter control technology

The technology of 180° sine wave DC inverter adjusting speed and vector control is an air conditioner control technology with wide working level which cannot be replaced by 120° control means, and it will become the dominant technology in air conditioner control field.



- Lower noise
- Lower vibration
- Longer life
- Higher efficiency

Haier air conditioner with 180° sine wave current DC inverter technology will give you an excellent service for a long long time.

Concealed LED display

With the new innovated technology, the unit can indicate the operation status clearly and simply. Exclusively the display turns to be concealed when the unit is off, which creates the stylish and consistent outlook.



Humanized remote controller

Intelligent buttons and design let end-users forget complicated operation and feel comfort.



RESIDENTIAL

Family series



Family

- DC INVERTER



400002000A
U03A01000A
400002000A
U03C01000A

400002000A
U03B01000A
400002000A
U03A01000A

Supermatch
By integrating intelligent technology of Halon A/C group, Free-match upgrade air conditioners, with universal indoor and outdoor units, make more intelligent and flexible choices on purchasing, more easy instantly management to every customers.

180° sine wave DC inverter
An air conditioner control technology of adjusting speed and vector control, to make you enjoy higher efficiency and more comfort.

Intelligent air
According to the person's location, the person is able to select the direction in which the air flows out of the air conditioner, to avoid the air flow directly targeting the body. This prevents people from contracting air conditioning related ailments.

Family series - DC inverter

Model		400002000A U03A01000A	400002000A U03B01000A	400002000A U03C01000A	400002000A U03A01000A
Capacity (kW)	Cooling	8400(30)-10000	10200(40)-12000	13000(50)-15000	16000(60)-18000
	Heating	9000(30)-10000	10800(40)-12000	13800(50)-15000	16800(60)-18000
Power input (kW)	Cooling	1700(10)-1900	2000(10)-2200	2400(10)-2600	2800(10)-3000
	Heating	1700(10)-1900	1900(10)-2100	2300(10)-2500	2700(10)-2900
EER (kW) energy class		3.40W	3.40W	3.20W	3.20W
EER (kW) energy class		4.00	3.70W	3.70W	3.70W
Operating ratio (%)	Cooling	18-40	19-40	18-6	18-10
	Heating	8-24	16-24	16-24	16-24
Fluorine content (kg)	Cooling	1.2	1.2	1.3	1.3
	Heating	1.1	1.1	1.1	1.1
Power supply (V/Hz/Ph)		1P/220V/50 Hz	1P/220V/50 Hz	1P/220V/50Hz	1P/220V/50 Hz
Refrigerant type		R410A	R410A	R410A	R410A
Refrigerant amount (kg)		1.2	1.2	1.3	1.3
Refrigerant		R410A	R410A	R410A	R410A
Refrigerant pipe	Line side diameter (mm)	6.35	6.35	6.35	6.35
	Gas side diameter (mm)	9.52	9.52	9.52	9.52
	Max length (m)	15	15	15	15
Refrigerant charge (g)	Max length (m)	10	10	10	10
	400002000A	400	1000	1000	500
	400002000A	-	-	-	-
Indoor					
Net dimension (mm)	WxDH	997*524*216	1016*524*216	1000*524*216	1016*524*216
Package dimension (mm)	WxDH	1110*544*236	1129*544*236	1110*544*236	1129*544*236
Net weight (kg)		11.2	11.1	11.1	11.1
Gross weight (kg)		11.5	11.5	11.5	11.5
Net (PDP) (mm)		997*524*216	1016*524*216	1000*524*216	1016*524*216
Outdoor					
Net dimension (mm)	WxDH	762*510*90	770*510*90	762*510*90	770*510*90
Package dimension (mm)	WxDH	807*540*110	807*540*110	807*540*110	807*540*110
Net weight (kg)		21	21	21	21
Gross weight (kg)		22	22.5	22	22.2
Net (PDP)		762	770	762	770

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RESIDENTIAL

Family series



Complete
Residential

Complete
Residential

Family

- ON/OFF -



HS1-24H1000R2
HS1-24H1000R3
HS1-30H1000R2

HS1-24H1000R1
HS1-30H1000R1
HS1-36H1000R2

Concealed LED display

With the new innovated technology, the unit can indicate the operation status clearly and simply. Exclusively the display turns to be concealed when the unit is off, which creates the stylish and consistent outlook.

Intelligent air

According to the person's location, the person is able to select the direction in which the air flows out of the air conditioner, to avoid the air flow directly targeting the body. This prevents people from contracting air conditioning related symptoms.

ESF filter (Optional)

It traps harmful dust and remove unpleasant odors effectively.

Family series - On/Off

Model		HS1-24H1000R2	HS1-24H1000R1	HS1-30H1000R2	HS1-30H1000R1	HS1-36H1000R2	HS1-36H1000R1
Capacity (W)	Cooling	2400	2200	4200	3000	3600/5000	3700/5000/5000
	Heating	3000	3000	4500	3200	3600/4500	3800/4500/4500
Power input (W)	Cooling	700	600	1500	1000	1000/1400	1000/1000/1000
	Heating	140	140	1600	1000	1400/1400	1400/1400/1400
EER (W/W) energy class		3.214	3.276	2.222	2.800	3.011	3.200
EER (W/W) energy class		3.165	3.176	1.270	1.997	2.119	1.470
Operating ratio (%)	Cooling	13-13	16-12	9-0	3-10	10-13	10-0
	Heating	1-24	1-20	2-25	1-24	1-24	1-24
Fluorine content (kg)	Cooling	1.0	1.0	1.0	1.0	1.070	1.04/0.914
	Heating	1.1	1.1	1.1	1.1	1.070	1.04/0.914
Power supply (V/Hz/Ph)		110-220V/50/1	110-220V/50/1	110-220V/50/1	110-220V/50/1	110-220V/50/1	110-220V/50/1
Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant	Refrigerant	4410	4210	8410	4410	4210	4410
	Unit side diameter (mm)	6.35	6.35	6.35	6.35	6.35	6.35
	Unit side diameter (mm)	6.35	6.35	6.35	6.35	6.35	6.35
	Max length (m)	15	15	20	20	Max: 15	Max: 15
Refrigerant charge (g)	Max (g)	30	30	70	40	40/70	40/70
	Type - refrigerant	300	300	700	300	300	300
Indoor							
Net dimension (mm)	WxD	194/197/194	194/197/194	249/249/249	219/219/219	249/249/249	249/249/249
Weight (kg)	W/D	10/10/10	10/10/10	16/16/16	11/11/11	16/16/16	16/16/16
Net weight (kg)		11.3	11.3	22	15.5	11.3	11.3
Net height (mm)		200/200	200/200	250/250	210/210	250/250	250/250
Outdoor							
Net dimension (mm)	WxD	775/775/775	775/775/775	775/775/775	775/775/775	775/775/775	775/775/775
Package dimension (mm)	WxD	820/820/820	820/820/820	820/820/820	820/820/820	820/820/820	820/820/820
Net weight (kg)		24.7	24.7	41	24.4	24.4	24.4
Unit weight (kg)		25	25	42	25.5	25	25
Net height (mm)		200	200	270	200	200	200

* Data based on standard test conditions. All data are subject to change without notice for product improvement.
 ** The unit is not suitable for installation in the ceiling.
 † Capacity based on the standard test conditions. The actual capacity may vary due to the actual installation conditions.
 ‡ Refrigerant charge based on the standard test conditions. The actual charge may vary due to the actual installation conditions.

RESIDENTIAL

Family series



Complete
 Residential
 Family series

Complete
 Residential
 Family series



RESIDENTIAL

Home series



Commercial
Residential

Commercial
Residential

Home

- DC INVERTER



- HAU20HF-10V9A21W / UY20AH032V9S1001
- HAU21HF-10V9A21W / UY21AH032V9S1001
- HAU22HF-10V9A21W / UY22AH032V9S1001
- HAU23HF-10V9A21W / UY23AH032V9S1001

DC inverter

100% sine wave current DC inverter control technology make super high efficiency, more friendly to environment.

Intelligent air

According to the person's location, the person is able to select the direction in which the air flows out of the air conditioner, to avoid the air flow directly targeting the body. This prevents people from contracting air conditioning related symptoms.

ESF filter (Optional)

It traps harmful dust and remove unpleasant odors effectively.

"DOUBLE 8" display

The "DOUBLE 8" display screen was equipped to show target temperature (When setting) and present temperature (After setting).

Home series - DC inverter

Model		HAU20HF-10V9A21W HU20AH-032V9S1001	HAU21HF-10V9A21W HU21AH-032V9S1001	HAU22HF-10V9A21W HU22AH-032V9S1001	HAU23HF-10V9A21W HU23AH-032V9S1001
Capacity (W)	Cooling	5000 (1000-1800)	5500 (1100-2000)	6000 (1200-2400)	7100 (1400-2800)
	Heating	4000 (800-1400)	4400 (880-1550)	4800 (960-1680)	5600 (1120-1960)
Power input (W)	Cooling	700 (100-1400)	760 (100-1450)	820 (100-1500)	950 (100-1600)
	Heating	800 (100-1500)	880 (100-1600)	960 (100-1700)	1100 (100-1800)
EER (W/W) energy class		3.56	3.69	3.91	4.00
SEER (W/W) energy class		3.40	3.70	3.75	3.97
Operating ratio (%)	Cooling	10-10	10-10	10-10	10-10
	Heating	6-24	6-24	6-24	6-24
Flooring capacity (kg)	Cooling	4	4	4.9	10.3
	Heating	4	4	4.9	10.3
Power supply (V/Hz/Ph)		110V/50/1Ph	110V/50/1Ph	110V/50/1Ph	110V/50/1Ph
A mode operation		4.0	4.0	4.0	4.0
Plasma removal (PHEP)		1.0	1.0	2.0	2.0
Refrigerant	Refrigerant	R410A	R410A	R410A	R410A
	Discharge diameter (mm)	6.35	6.35	6.35	6.35
	Refrigerant pipe	1/2"	1/2"	1/2"	1/2"
Refrigerant pipe	Discharge diameter (mm)	12	12	12	12
	Max length (m)	15	15	15	15
	Max. lift (m)	10	10	10	10
Refrigerant charge (g)		700	700	1000	600
Warranty (Year)		5	5	5	5
Indoor					
Net dimension (mm)		W417xH246	W417xH246	W417xH246	W417xH246
Packaging dimension (mm)		W450xH280	W450xH280	W450xH280	W450xH280
Net weight (kg)		4.4	4.4	4.4	4.4
Gross weight (kg)		7.5	7.5	7.5	7.5
Noise (dB(A) @1m distance)		24.5 (20-24)	24.5 (20-24)	24.5 (20-24)	24.5 (20-24)
Outdoor					
Net dimension (mm)		W251xH200	W251xH200	W251xH200	W251xH200
Packaging dimension (mm)		W270xH210	W270xH210	W270xH210	W270xH210
Net weight (kg)		4.1	4.1	4.1	4.1
Gross weight (kg)		10.5	10.5	10.7	10.5
Noise (dB(A))		49	49	49	49

*Capacity, EER, SEER, A mode operation, power input, power output, and noise are all based on standard test conditions for product measurement.
 **The actual noise level will vary according to the installation location.
 †Capacity, power input, SEER, SEER, A mode operation, power input, power output, and noise are all based on standard test conditions for product measurement.
 ‡The actual noise level will vary according to the installation location.

RESIDENTIAL

Home series



Complete solution
for your home
Residential

Complete solution
for your home
Residential

Home

- ON/OFF -



H01-100H-00000
 H02-120H-00000
 H03-150H-00000

H04-200H-00000
 H05-250H-00000
 H06-300H-00000

Intelligent air

According to the person's location, the person is able to select the direction in which the air flows out of the air conditioner, to avoid the air flow directly targeting the body. This prevents people from contracting air conditioning related symptoms.

ESF filter (Optional)

It helps remove dust and remove unpleasant odors effectively.

"DOUBLE 8" display

The "DOUBLE 8" display screen was equipped to show target temperature (When setting) and present temperature (After setting).

Home series - On/Off

Model		H01-100H-00000	H02-120H-00000	H03-150H-00000	H04-200H-00000	H05-250H-00000	H06-300H-00000
Capacity (W)	Cooling	2400	3200	4200	5000	6200/5000	8100/6000/5000
	Heating	3000	3900	5100	6100	7500/6000	9800/6900/5000
Power input (W)	Cooling	700	900	1100	1300	1500/1200	1900/1400/1000
	Heating	140	180	230	280	340/280	430/320/230
EER (W/W) energy class		3.284	3.556	3.727	3.846	4.133	4.286
SEER (W/W) energy class		8.100	8.700	9.200	9.500	10.000	10.400
Operating ratio (%)	Cooling	13-19	16-19	16-19	17-19	17-19	17-19
	Heating	1-24	1-29	1-25	1-24	1-24	1-24
Heating capacity (W)	Cooling	10	10	10	10	10/10	10/10/10
	Heating	4	4	4	4	4/4	4/4/4
Power supply (V/Hz/Ph)		110-220V/50/1	110-220V/50/1	110-220V/50/1	110-220V/50/1	110-220V/50/1	110-220V/50/1
Dimensions (mm)		600	600	600	600	600	600
Weight (kg)		10	10	10	10	10	10
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant (kg)	Unit side diameter (mm)	6.35	6.35	6.35	6.35	6.35	6.35
	Unit side diameter (mm)	6.35	6.35	6.35	6.35	6.35	6.35
	Max length (m)	15	15	20	20	20/15	20/15
	Max height (m)	3	3	3	3	3/3	3/3
Refrigerant charge (g)		700	900	1100	1300	1500/1200/1000	1900/1400/1000
Warranty (Year)		3	3	3	3	3	3
Notes							
Net dimensions (mm)		600x600x240	600x600x240	600x600x240	600x600x240	600x600x240	600x600x240
Packaging dimensions (mm)		600x600x300	600x600x300	600x600x300	600x600x300	600x600x300	600x600x300
Net weight (kg)		10	10	10	10	10	10
Gross weight (kg)		11.5	11.5	11.5	11.5	11.5	11.5
Notes (B2/B3)		2000000	2000000	2000000	2000000	2000000	2000000
Notes							
Net dimensions (mm)		600x600x240	600x600x240	600x600x240	600x600x240	600x600x240	600x600x240
Packaging dimensions (mm)		600x600x300	600x600x300	600x600x300	600x600x300	600x600x300	600x600x300
Net weight (kg)		10	10	10	10	10	10
Gross weight (kg)		11.5	11.5	11.5	11.5	11.5	11.5
Notes (B2/B3)		2000000	2000000	2000000	2000000	2000000	2000000

*Capacity, EER, SEER, COP, and other data are based on standard conditions for product measurement.
 **The actual capacity, EER, SEER, COP, and other data may vary according to the actual use conditions.
 †Capacity, EER, SEER, COP, and other data are based on standard conditions for product measurement.
 ‡The actual capacity, EER, SEER, COP, and other data may vary according to the actual use conditions.

RESIDENTIAL

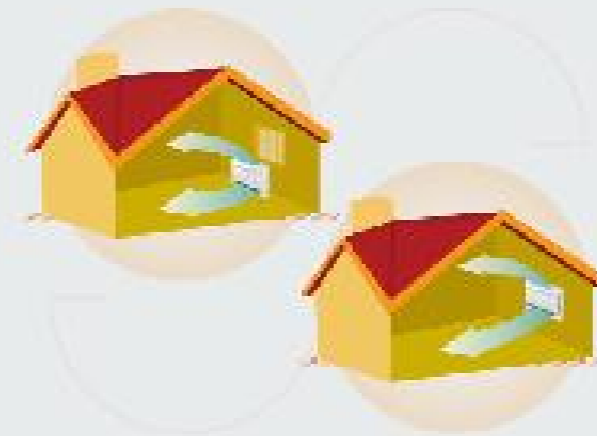
Home series





Easy installation

The indoor units can be installed on the floor or on the wall. (So more flexible and easy for installation.)



Super quiet

Quieter than a whisper - When you press the SOFT button twice, the indoor unit will operate at a soft quiet 26(dB(A)). You might not hear it operating when making it ideal for bedrooms, living rooms, and anyplace you watch television or listen to music.

22dB(A) (Powerful) 27dB (Soft) 30dB (Whisper) 35dB (Softest)

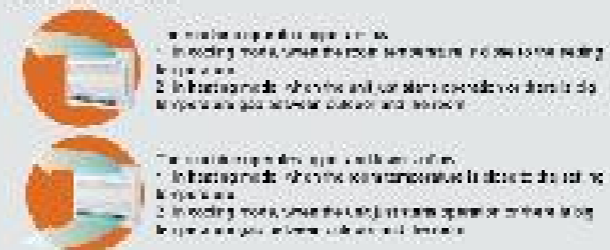
Just press the button for quieter operation Press (SOFT) button 3dB Down

Airflow free selection

Air outlet selection switch



Target airflow



Negative ion filter



RESIDENTIAL

Console series



Consistent
Performance

With
Smart
Technology

Console

- DC -
INVERTER



AP05AS1ERA
10000 BTU
AP05AS1ERA
10000 BTU
AP05AS1ERA
10000 BTU

Carpet airflow

When switch to two-way airflow mode, the machine would make automatic adjustment for carpet airflow. Under cool mode, for the beginning the wind blows from the upper and lower outlet, and once reaches the setting temperature, the wind will shift to upper airflow. Under heat mode, for the beginning the wind blows from the upper outlet, and once reaches the setting temperature, the wind will shift to upper and lower airflow.

Power mode

When you press a power button once, it will produce more air flow than the high fan speed, cooling the room more faster than ever.

Sleep mode

Press the sleep button, air conditioner will automatically turn the airflow speed down to a lower level, and adjust the temperature slowly.

Console series - DC inverter

Model		AP05AS1ERA 10000 BTU 10000 BTU	AP05AS1ERA 10000 BTU 10000 BTU	AP05AS1ERA 10000 BTU 10000 BTU
Capacity (W)	Cooling	10400-13000-15000	10400-13000-15000	10400-13000-15000
	Heating	10400-13000-15000	10400-13000-15000	10400-13000-15000
Power input (W)	Cooling	1700-2000-1100	1700-2000-1100	1700-2000-1100
	Heating	1700-2000-1100	1700-2000-1100	1700-2000-1100
EEER (W/W) energy class		3.42	3.42	3.42
SEER (W/W) energy class		3.42	3.42	3.42
Operating ratio (%)	Cooling	3-6	3-6	3-6
	Heating	16-24	16-24	16-24
Floating capacity (W)	Cooling	0.0	4.0	0.0
	Heating	0.0	4.0	0.0
Power supply (V/Hz/Ph)		110/220V/50/1	110/220V/50/1	110/220V/50/1
Dimensions (mm)		840	840	840
Weight (kg)		11.2	11.2	11.2
Refrigerant		R410A	R410A	R410A
Refrigerant pipe	Line side diameter (mm)	6.35	6.35	6.35
	Gas side diameter (mm)	9.52	9.52	9.52
	Max length (m)	10	10	10
	Max height (m)	1	1	1
Refrigerant charge (g)		300	300	300
Warranty (Year)	Type	5	5	5
Indoor				
Net dimension (mm)	WxDH	1720x270x190	1720x270x190	1720x270x190
Package dimension (mm)	WxDH	1840x310x190	1840x310x190	1840x310x190
Net weight (kg)		11	11	11
Gross weight (kg)		12.5	12	12
Net (PDP) (mm)		1640x210	1640x210	1640x210
Outdoor				
Net dimension (mm)	WxDH	740x220x240	740x220x240	610x170x240
Package dimension (mm)	WxDH	800x260x240	800x260x240	640x180x240
Net weight (kg)		21	21	19
Gross weight (kg)		23	23.5	23.5
Net (PDP)		47	47	47

Notes: Data is available for reference. It does not affect the actual performance of the product. The actual performance of the product may vary due to the actual installation conditions. The actual performance of the product may vary due to the actual installation conditions. The actual performance of the product may vary due to the actual installation conditions.

RESIDENTIAL

Console series





Multi upgrade

	7000	9000	12000	18000	24000
BluWh					
KW	2.2	2.8	3.6	5.0	7.0
Wall mounted type HEW	 HEW7000	 HEW9000	 HEW12000	 HEW18000	 HEW24000
Cassette type		 CQW9000	 CQW12000	 CQW18000	 CQW24000
Low static pressure duct type		 DQW9000	 DQW12000	 DQW18000	 DQW24000
Console type			 CQW12000	 CQW18000	 CQW24000
Console type		 CQW9000	 CQW12000	 CQW18000	
Outdoor units	 HEO7000 (1.5-2.0kW) (1:1)	 HEO9000 (2.0-2.5kW) (1:1)	 HEO12000 (2.5-3.5kW) (1:1)	 HEO18000 (3.5-4.5kW) (1:1.2, 1:1.5)	 HEO24000 (5.0-7.0kW) (1:1.5, 1:1.8)

MULTI UPGRADE

Model lineup



Multi upgrade

Multi upgrade

Super Match

- Easy logistics
- High efficiency
- Flexible installation
- Convenient maintenance

Easy logistics

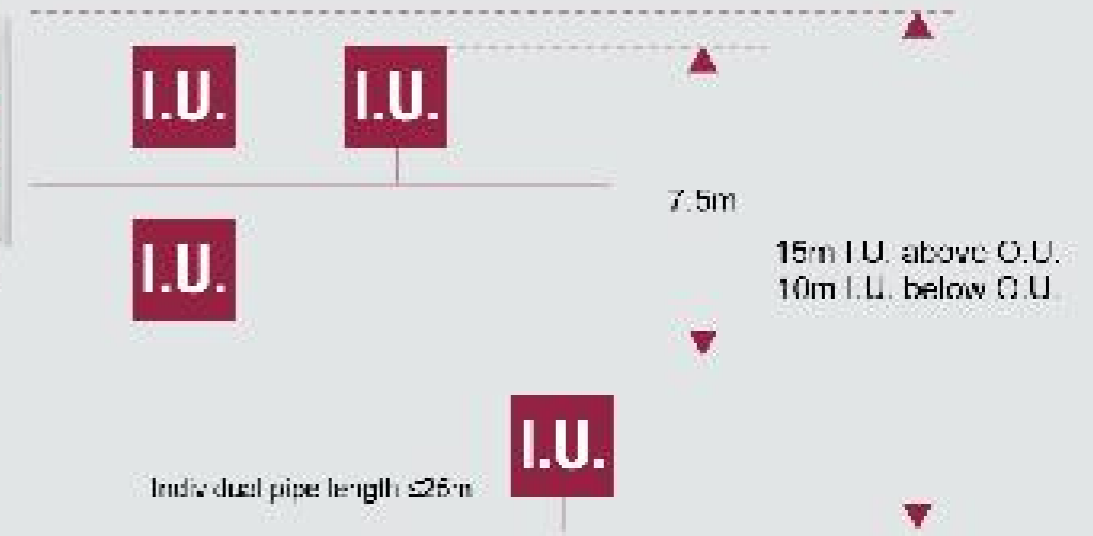
The unified indoor units of Multi and Residential series can help our distributors and installers to reduce the inventory and assembly.



Flexible installation



Total pipe length ≤80m



High efficiency



Efficiency



Without side cover, saving space



110mm shorter

Easy carry



MULTI UPGRADE

Technology & Function

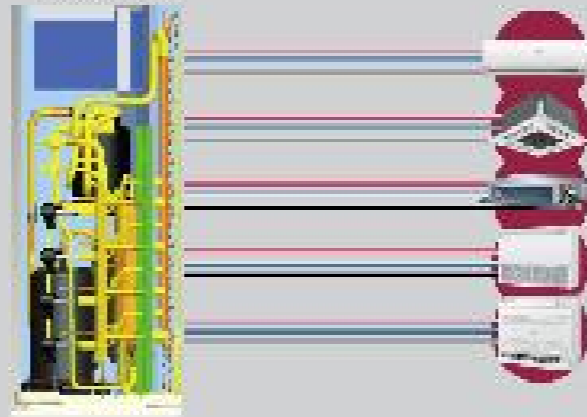


Super Match

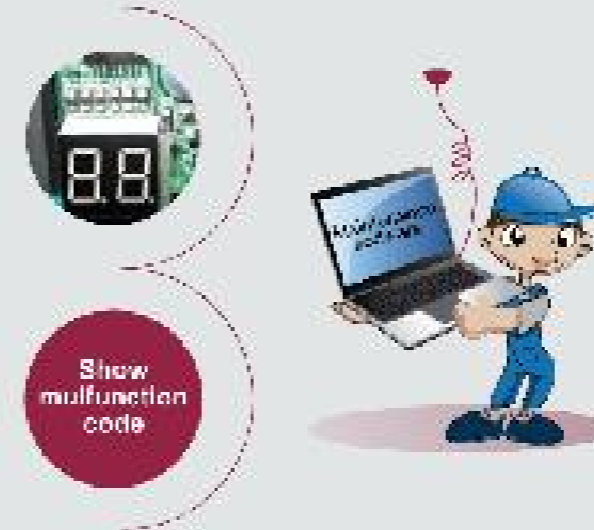
New wiring solution

- New wiring solution: parallel connection.
- Automatic screens setting and easy wiring.
- When commission, check the piping and wiring automatically.

Note: Red wire-power wire; Blue wire-communication wire; Black wire-pipe.



Convenient maintenance



Wider range operation

Wider range operation of outside temperature

- Cooling: from -10°C to 46°C
- Heating: from -15°C to 24°C



General Stop Valve

- Vacuum and Charging every indoor unit just one time from general stop valve.
- Test low or high pressure in the same mode from general stop valve.



General stop valve

50Hz/60Hz operation

- Equipped with various DC components, the new Multi system is applicable both for 50Hz and 60Hz stationary condition.

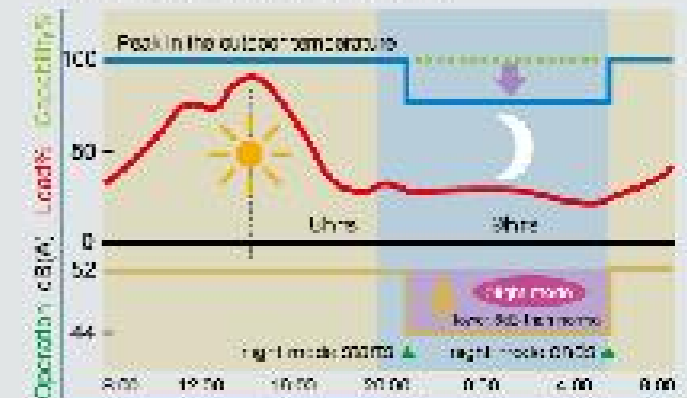


Wider voltage range

- Working voltage: 208V~240V
- The system is more to 400V in unstable voltage condition.

Sleeping mode

- Automatic switch to light silence running mode in 8 hours after the outdoor peak temperature in daytime.



Note: The operation is controlled by outdoor air temperature. The reliability of outdoor air temperature and outdoor air flow is the graph is just an example.

MULTI UPGRADE

Technology & Function



Super Match



Variable Control



Name:
Infrared controller
Model:
YR-IC
Feature:
Unit opening
For what unit?
Wall mounted, Cassette, Convertible, Console Duct



Name:
Wall controller
Model:
YR-E11
Feature:
Unit opening
For what unit?
Cassette, Convertible, Duct



Name:
Central controller
Model:
YCR-A001
Feature:
Central control
For what unit?
Multi upgrade outdoor unit



Name:
Central controller
Model:
YCR-A001
Feature:
Central control
For what unit?
Multi upgrade outdoor unit

Outdoor Unit



Model		QUICKSERA	QUICKSERIC	QUICKSERIA	AQUASERIC	AQUASERIA	ELUSASERIA
Capacity							
Capacity	Unit	1-300	1800	18400	28800	28700	34000
	kW (cooling/heat)	24/31.1	18/24.8	18/24.7	28/37.8	28/37.8	34/45.1
Flow rate	Unit	15700	21100	21200	25000	25000	27400
	AW (cooling/heat)	1.7/2.47	1.9/2.67	1.9/2.66	1.9/2.66	1.9/2.66	1.9/2.67
Maximum performance							
Power supply	Phase	1-Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase
Power input (cooling)	kW (cooling/heat)	0.23/0.27	0.21/0.26	0.21/0.26	0.25/0.31	0.25/0.31	0.25/0.31
Power input (heating)	kW (cooling/heat)	0.12/0.17	0.17/0.23	0.17/0.23	0.23/0.29	0.23/0.29	0.23/0.29
Efficiency		3.02/3.22	3.42/3.9	3.42/3.9	3.62/4.12	3.62/4.12	3.7/3.75
Performance							
Air flow (L)	m³/h	3200	2100	2300	2900	4000	4900
Refrigerant (R410A)	kg (kg)	70	50	50	60	70	80
Dimensions							
External dimensions (WxDxH)	mm	240x170x41	1800x170x41	1840x170x41	2880x170x41	2870x170x41	3400x170x41
Weight (cooling/heat)	kg	9.8/10.2	14.9/15.4	14.9/15.4	13.9/15.5	13.9/15.5	13.9/15.5
Net Shipping Weight	kg	10.5	15.6	15.6	14.6	14.6	14.6
Dimensions (cooling/heat)	mm (WxDxH)	240x170x41	1800x170x41	1840x170x41	2880x170x41	2870x170x41	3400x170x41
Refrigerant pipe size	mm	2x1/2	2x3/8	2x3/8	2x3/8	2x3/8	2x3/8
Refrigerant gas pipe	mm	2x3/8	2x3/8	2x3/8	2x3/8	2x3/8	2x3/8
Max pipe length	m	150/200 (cool/heat)	150/200 (cool/heat)	150	70	70	60
Max slope between (cool/heat)	%	0	0	0	0	0	0
Warranty							
Cooling	Y	10-4	10-4	10-4	10-4	10-4	10-4
Heating	Y	-5-2	-15-21	-5-2	-15-2	-15-2	-15-21

Unit Data provided is for reference only and is subject to change without notice. All units are tested in a laboratory setting. Actual performance may vary due to installation conditions. All units are tested in a laboratory setting. Actual performance may vary due to installation conditions. All units are tested in a laboratory setting. Actual performance may vary due to installation conditions.

MULTI UPGRADE

Outdoor unit



Multi upgrade

Multi upgrade

WALL-MOUNTED TYPE



- AS07GS2ERA
- AS09GS2T1A
- AS12GS2ERA
- AS18GS2L1A
- AS24GS2ERA

Intelligent air

According to the person's position, the sensor is able to select the direction in which the air flows out of the air conditioner. To avoid the air flow directly targeting the body. This prevents people from contracting air conditioning related symptoms.

O₂-refresh (Optional)

This function can keep the pleasant air temperature and bring the fresh air in without opening the window.



Model		AS07GS2ERA	AS09GS2ERA	AS12GS2ERA	AS18GS2ERA	AS24GS2ERA
Capacity						
Cooling	Rated	200	300	4500	6700	9500
	kW	2.06	3.04	5.52	8.26	11.1
Heating	Rated	215	3280	4780	7040	9840
	kW	2.2	3.2	5.05	7.45	10.3
Electrical parameters						
Power supply	Phase	1/230V/50	1/230V/50	1/230V/50	1/230V/50	1/230V/50
Performance						
Air flow (m ³ /s)	m ³ /s	450	450	550	850	1100
Flow rate (m ³ /h)	m ³ /h	1620/2700	1620/2700	1980/3200	3060/4500	3960/5500
Dimensions						
External dimensions (WxDxH)	mm	800/254/214	800/254/214	800/254/214	1050/254/214	1410/254/214
Shipping dimensions (WxDxH)	mm	800/254/330	800/254/330	800/254/330	1050/254/330	1410/254/330
Net shipping weight	kg	6.05	6.05	6.05	9.50	12.65
Net weight (kg)	kg	6.05	6.05	6.05	9.50	12.65
Net shipping volume	m ³	0.27	0.27	0.27	0.34	0.46
Control (Wireless/Control)		-	-	-	-	-
Control (Wireless/Control)		Yes/Optional	Yes/Optional	Yes/Optional	Yes/Optional	Yes/Optional

*Cooling Capacity based on standard conditions (indoor air: 27°C, 50%RH; outdoor air: 35°C, 50%RH). Heating Capacity based on standard conditions (indoor air: 20°C, 30%RH; outdoor air: 7°C, 45%RH). Actual performance may vary due to installation conditions and room characteristics.

MULTI UPGRADE

Wall mounted type



CASSETTE TYPE



- AB09CS1ERA
- AB12CS1ERA
- AB18CS1ERA

Fresh air inlet

Pre-set fresh air inlet can introduce the outside fresh air into the room, greatly improve the indoor air quality away from air conditioner symptom!

Built-in high head drain pump

A standard drain-head height of up to 600mm is available, making the ideal solution for perfect water drainage.

New particular design

For AB09-18 models, the panel dimension is 700mmx700mm, smaller and universal. Harmony with the environment.

The external dimension is 570mmx570mmx250mm for easy installation. It is universal and harmony with standard ceiling (600mmx600mm), which avoids the breakage for ceiling during installation.

Quiet operation

Airflow pass through the outlet smoothly and fluidly owing to the streamlined outlet, bringing you a maximum quiet space. The fan blade adopts the design of regular helix, the indoor unit can run at the lowest sound level.



- AB24CS1ERA

Model		AB09CS1ERA	AB12CS1ERA	AB18CS1ERA	AB24CS1ERA
Capacity					
Cooling	Rated	9000	12000	18000	24000
	HP	2.5	3.5	5	6.5
Heating	Rated	12000	16000	24000	32000
	HP	3.5	4.7	7	9.5
Electrical parameters					
Max. supply	Phase	1/220V/50Hz	1/220V/50Hz	1/220V/50Hz	1/220V/50Hz
Performance					
Air flow (m³/min)	CFM	600/2400	800/3200	1200/4800	1600/6400
Flow rate (m³/h)	CFM	360/1440	480/1920	720/2880	960/3840
Installation					
External dimension (mm)	mm	700x700	700x700	700x700	700x700
Shipping dimension (mm)	mm	710x710	710x710	710x710	710x710
Net Shipping weight	kg	7.5	10.5	15.5	20.5
Shipping equipment	mm	2.25	3.25	4.25	5.25
Shipping space size	mm	115	115	115	115
Panel					
External dimension	mm	570x570	570x570	570x570	570x570
Shipping dimension	mm	580x580	580x580	580x580	580x580
Net Shipping weight	kg	4.5	4.5	4.5	4.5
Available (Wired/Control & remote control)		Y/N/Optional	Y/N/Optional	Y/N/Optional	Y/N/Optional
Available (Wired/Control & remote control)		Y/N/Optional	Y/N/Optional	Y/N/Optional	Y/N/Optional

1. All data are subject to change without notice. 2. All data are subject to change without notice. 3. All data are subject to change without notice. 4. All data are subject to change without notice. 5. All data are subject to change without notice. 6. All data are subject to change without notice. 7. All data are subject to change without notice. 8. All data are subject to change without notice. 9. All data are subject to change without notice. 10. All data are subject to change without notice.

MULTI UPGRADE

Cassette type



Multi upgrade

Multi upgrade

DUCT TYPE



● AD00.S1ERA
 ● AD12.S1ERA

High efficiency filter

The unit adopts G3 grade filter which can efficiently filter the dirt etc. and improve the room's quality. At the same time, the filter can pull out from downside, convenient for maintenance and cleaning.

Multi-mode for installation

The indoor unit can be installed with an air return duct, or without an return duct according to the installation need. It has two choices of optional static pressure 6Pa and 20Pa for the different requirements, you can adjust the length of duct from air outlet of the duct to air outlet of the air conditioner within 5m.

Ultra thin design

For the low static pressure duct type indoor units, the unit thickness is only 220mm, ultra thin design; the depth is 500mm, space saving and completely matching with the indoor decoration.

Knock-down drain pan & Double sides water drainage

The drain pan is easy to assemble. And it can realize the two sides drainage through changing the direction of the drain pan.



● AD18.S1ERA
 ● AU24L3TL1AA

Model		AD00.S1ERA	AD12.S1ERA	AD18.S1ERA	AU24L3TL1AA
Capacity					
Cooling	Max	1.00	1.80	2.80	3.50
	Min	0.6	0.9	1.5	1.8
Heating	Max	0.80	1.50	2.30	2.80
	Min	0.4	0.7	1.1	1.4
Electrical parameters					
Power supply	Phase	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Performance					
APF (EER)	max	4.4	4.4	4.4	4.4
SEER (EER)	max	12.4	12.4	12.4	12.4
Installation					
Minimum installation height	mm	2000	2000	2000	2000
Shipping dimensions (WxDxH)	mm	220x480x220	220x480x220	220x480x220	220x480x220
Net Weight (kg)	kg	14.1	14.1	14.1	14.1
Full pipe length (m)	m	15	15	15	15
Maximum pipe size	mm	25.4	25.4	25.4	25.4
Static pressure	Pa	6	6	6	6
Capacity (Max/Cooling/Heating)		1.0/0.6/0.8	1.8/0.9/1.5	2.8/1.5/2.3	3.5/1.8/2.8
Product Code (Cooling/Heating)		18-179	18-179	18-179	18-179

1. All data is under standard conditions unless otherwise specified. All data is subject to change without notice. All data is for reference only. All data is subject to change without notice. All data is for reference only. All data is subject to change without notice. All data is for reference only.

MULTI UPGRADE

Duct type



CONVERTIBLE TYPE



- AC18CS1ERA
- AC18CS1ERA
- AC24CS1ERA

Ultra-thin unit body, only thick 189mm
The convertible indoor unit adopts a double drain pan design, the unit body is very thin, only 189mm. It is beautiful, elegant and space saving.

Optional drain water modes
Optional drain water lift-up mechanism offers more flexible installation.

Long-life & High efficiency air purify filter
The unit adopts high efficiency air purify filter, greatly improves the room air quality. At the same time, the filter can be easily detached and cleaned.

Wide-angle airflow
100° wide angle louvers and 100° wide angle blades are designed to make a precise control of the airflow. It averagely distributes the comfortable air to every corner of the room.



Model		AC18CS1ERA	AC18CS1ERA	AC24CS1ERA
Capacity				
Cooling	Rated	1800	1800	2400
	Max	3.3	3	4.3
Heating	Rated	1800	1800	2400
	Max	3.3	3.5	4.7
Electrical parameters				
Power supply	Phase	1/250V/50Hz	1/250V/50Hz	1/250V/50Hz
Performance				
Air flow (m³/h)	m³/h	250/350/450	300/350/500	400/500/600
Flow rate (m³/h)	m³/h	40/55/70	40/55/70	40/55/70
Installation				
External dimensions (WxD) (mm)	mm	440x410x189	440x410x189	440x410x189
Shipping dimensions (WxD) (mm)	mm	1180x1130x300	1180x1130x300	1180x1130x300
Net shipping weight (kg)	kg	10.000/9.0	10.000/9.0	10.000/9.0
Net shipping volume (m³)	m³	0.33	0.33	0.33
Net shipping volume (m³)	m³	0.33	0.33	0.33
Control (Wireless/Wired/Remote)		Y/N/N/N	Y/N/N/N	Y/N/N/N
Power consumption (Standby)	W	1.0	1.0	1.0

*Cooling Data based on standard conditions (indoor air: 27°C, outdoor air: 35°C, indoor humidity ratio: 50%, outdoor humidity ratio: 15%, indoor air velocity: 0.3 m/s, outdoor air velocity: 2.5 m/s, solar radiation: 180 W/m²). Heating Data based on standard conditions (indoor air: 20°C, outdoor air: 7°C, indoor humidity ratio: 50%, outdoor humidity ratio: 15%, indoor air velocity: 0.3 m/s, outdoor air velocity: 2.5 m/s, solar radiation: 180 W/m²).

MULTI UPGRADE

Convertible type



CONSOLE TYPE



- AF08AS1ERA
- AF12AS1ERA
- AF18AS1ERA

High efficiency filter

The unit's advanced high efficiency filter, can efficiently filter the dirt and impurities to ensure air quality.

Quiet running

Thanks to the low sound level centrifugal fan, the unit always works quietly so as to give more comfort to life.

Compact unit body and space saving

The unit body is very slim and fits in perfectly with room. It is beautiful, elegant and space saving.

Fast temperature adjustment

Air supplying from top or the bottom of the unit body for fast temperature adjustment.



Model		AF08AS1ERA	AF12AS1ERA	AF18AS1ERA
Capacity				
Cooling	Rated	8000	12000	18000
	Max	10000	15000	22000
Heating	Rated	8000	12000	18000
	Max	9000	13000	19000
Electrical parameters				
Power supply	Phase	1/230V/50	1/230V/50	1/230V/50
Performance				
Air flow (m³/min)	min	400	600	900
Flow rate (m³/h)	min	24000/12000	36000/18000	54000/27000
Installation				
External dimensions (WxDxH)	mm	180x240x170	210x240x170	240x240x170
Shipping dimensions (WxDxH)	mm	220x280x170	240x280x170	280x280x170
Net shipping weight	kg	4.5/3.5	6.0/4.5	8.0/6.5
Net shipping size (mm)	mm	220	240	280
Shipping space (mm)	mm	110	110	110
Control (Standard/Optional)		-	-	-
Control (Standard/Optional)		VR-4120	VR-4120	VR-4120

*Cooling Capacity based on indoor temperature 27°C and outdoor temperature 35°C. Heating Capacity based on indoor temperature 20°C and outdoor temperature 7°C. Actual capacity may vary due to actual indoor and outdoor conditions. ©2015 Gree Electric Appliances, Inc. of China. All rights reserved.

MULTI UPGRADE

Console type



2U14CS1ERA

COOLING

Comb.	Conditions			Room capacity equivalent			Total room capacity (kcal/h)			Total power input (kW)			Total energy (kWh/24h)			EER (kW/kcal/h)	SEER (1/100)
	Indoor	Outdoor	Indoor	W/h	F/h	Indoor	W/h	F/h	W/h	F/h	W/h	F/h	W/h	F/h			
1:1	7	—	—	2	—	—	62	2	2.0	0.22	0.2	0.9	28	2.28	1.3	3.23	7
	9	—	—	2.4	—	—	74	2.4	2.1	0.25	0.2	1.1	33	2.76	1.62	3.72	7
	12	—	—	3.1	—	—	97	3.1	2.7	0.32	0.27	1.57	39	3.44	2.12	4.31	7
	7	7	—	1.6	1.6	—	33	3.4	2.7	0.28	0.2	1.0	17	1.62	1.14	2.41	7
	7	9	—	2.3	2.3	—	48	3.6	2.9	0.33	0.26	1.1	21	1.92	1.34	2.62	7
	7	12	—	3.4	3.4	—	72	3.9	3.2	0.35	0.28	1.4	24	2.12	1.48	2.82	7
	9	9	—	2	2	—	50	4	3.3	0.35	0.28	1.1	27	2.17	1.47	2.82	7

HEATING

Comb.	Conditions			Room capacity equivalent			Total room capacity (kcal/h)			Total power input (kW)			Total energy (kWh/24h)			COP (kW/kcal/h)	SEER (1/100)
	Indoor	Outdoor	Indoor	W/h	F/h	Indoor	W/h	F/h	W/h	F/h	W/h	F/h	W/h	F/h			
1:1	7	—	—	2.5	—	—	12	2.1	3	0.31	0.22	1.1	42	1.24	4.21	3.42	7
	9	—	—	3.1	—	—	17	2.1	3.6	0.33	0.26	1.2	47	1.34	4.41	3.41	7
	12	—	—	3.6	—	—	24	2.3	4.2	0.34	0.28	1.3	57	1.49	4.85	3.32	7
	7	7	—	2.1	2.1	—	1.6	2.1	2.8	0.34	0.26	1.6	44	1.27	4.21	3.34	7
	7	9	—	2.9	2.9	—	2.2	2.3	3.1	0.35	0.27	1.7	51	1.39	4.32	3.3	7
	7	12	—	3.6	3.6	—	3.1	2.4	3.8	0.35	0.28	1.8	58	1.51	4.57	3.28	7
	9	9	—	2.2	2.2	—	1.8	2.1	2.8	0.35	0.27	1.3	53	1.53	4.32	3.1	7

2U18FS1ERA

COOLING

Comb.	Conditions			Room capacity equivalent			Total room capacity (kcal/h)			Total power input (kW)			Total energy (kWh/24h)			EER (kW/kcal/h)	SEER (1/100)
	Indoor	Outdoor	Indoor	W/h	F/h	Indoor	W/h	F/h	W/h	F/h	W/h	F/h	W/h	F/h			
1:1	7	—	—	2.8	—	—	17	2.1	2.9	0.22	0.22	1.1	31	2.26	1.13	3.21	7
	9	—	—	3.4	—	—	21	2.3	3.4	0.25	0.2	1.2	37	2.47	1.35	3.21	7
	12	—	—	3.9	—	—	27	2.5	4	0.27	0.2	1.4	43	2.68	1.57	3.41	7
	7	7	—	2.1	2.1	—	1.8	2	2.6	0.28	0.24	1.2	34	2.47	1.41	3.21	7
	7	9	—	2.8	2.8	—	2.4	2.1	3.1	0.28	0.24	1.3	39	2.67	1.52	3.27	7
	7	12	—	3.5	3.5	—	3.1	2.3	3.6	0.28	0.24	1.4	44	2.87	1.63	3.27	7
	9	9	—	2.2	2.2	—	1.9	2.1	2.9	0.28	0.24	1.3	40	2.87	1.63	3.27	7

HEATING

Comb.	Conditions			Room capacity equivalent			Total room capacity (kcal/h)			Total power input (kW)			Total energy (kWh/24h)			COP (kW/kcal/h)	SEER (1/100)
	Indoor	Outdoor	Indoor	W/h	F/h	Indoor	W/h	F/h	W/h	F/h	W/h	F/h	W/h	F/h			
1:1	7	—	—	2.1	—	—	1.6	2.1	2.7	0.28	0.24	1.2	34	1.04	3.14	3.21	7
	9	—	—	2.6	—	—	2.1	2.3	3.1	0.28	0.24	1.4	39	1.17	3.23	3.21	7
	12	—	—	3.1	—	—	2.6	2.8	3.7	0.28	0.24	1.6	44	1.3	3.31	3.21	7
	7	7	—	1.6	1.6	—	1.6	2.1	2.7	0.28	0.24	1.2	32	1.04	3.14	3.21	7
	7	9	—	2.1	2.1	—	2.1	2.3	3.1	0.28	0.24	1.3	37	1.17	3.23	3.21	7
	7	12	—	2.6	2.6	—	2.6	2.8	3.7	0.28	0.24	1.4	42	1.3	3.31	3.21	7
	9	9	—	1.7	1.7	—	1.7	2.1	2.7	0.28	0.24	1.3	37	1.3	3.31	3.21	7

3U19FS1ERA

COOLING

Comb.	Conditions			Room capacity equivalent			Total room capacity (kcal/h)			Total power input (kW)			Total energy (kWh/24h)			EER (kW/kcal/h)	SEER (1/100)
	Indoor	Outdoor	Indoor	W/h	F/h	Indoor	W/h	F/h	W/h	F/h	W/h	F/h	W/h	F/h			
1:1	7	—	—	2.1	—	—	17	2.1	2.9	0.22	0.22	1.1	31	2.26	1.13	3.21	7
	9	—	—	2.6	—	—	21	2.3	3.4	0.25	0.2	1.2	37	2.47	1.35	3.21	7
	12	—	—	3.1	—	—	27	2.5	4	0.27	0.2	1.4	43	2.68	1.57	3.41	7
	7	7	—	1.6	1.6	—	1.8	2	2.6	0.28	0.24	1.2	34	2.47	1.41	3.21	7
	7	9	—	2.1	2.1	—	2.4	2.1	3.1	0.28	0.24	1.3	39	2.67	1.52	3.27	7
	7	12	—	2.6	2.6	—	3.1	2.3	3.6	0.28	0.24	1.4	44	2.87	1.63	3.27	7
	9	9	—	1.7	1.7	—	1.9	2.1	2.9	0.28	0.24	1.3	40	2.87	1.63	3.27	7

HEATING

Comb.	Conditions			Room capacity equivalent			Total room capacity (kcal/h)			Total power input (kW)			Total energy (kWh/24h)			COP (kW/kcal/h)	SEER (1/100)
	Indoor	Outdoor	Indoor	W/h	F/h	Indoor	W/h	F/h	W/h	F/h	W/h	F/h	W/h	F/h			
1:1	7	—	—	2.1	—	—	1.6	2.1	2.7	0.28	0.24	1.2	34	1.04	3.14	3.21	7
	9	—	—	2.6	—	—	2.1	2.3	3.1	0.28	0.24	1.4	39	1.17	3.23	3.21	7
	12	—	—	3.1	—	—	2.6	2.8	3.7	0.28	0.24	1.6	44	1.3	3.31	3.21	7
	7	7	—	1.6	1.6	—	1.6	2.1	2.7	0.28	0.24	1.2	32	1.04	3.14	3.21	7
	7	9	—	2.1	2.1	—	2.1	2.3	3.1	0.28	0.24	1.3	37	1.17	3.23	3.21	7
	7	12	—	2.6	2.6	—	2.6	2.8	3.7	0.28	0.24	1.4	42	1.3	3.31	3.21	7
	9	9	—	1.7	1.7	—	1.7	2.1	2.7	0.28	0.24	1.3	37	1.3	3.31	3.21	7

MULTI UPGRADE

Matching of the indoor and outdoor units



Multi upgrade

Multi upgrade

4U25HS1ERA

COOLING

Comb	Condensing				Indoor (outdoor) fan-cooling				Matching outdoor				One-zone matching				Two-zone matching				COOLING Power capacity	COOLING EER/SEER	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
I-1	1	—	—	—	236	—	—	—	100	226	386	—	140	336	122	—	222	242	882	—	3.4	5.6	
	2	—	—	—	236	—	—	—	100	226	386	—	140	336	124	—	222	317	882	—	3.4	5.6	
	3	—	—	—	236	—	—	—	100	336	410	—	150	100	132	—	222	444	670	—	3.0	4.4	
	4	—	—	—	240	—	—	—	175	240	340	—	150	170	190	—	222	690	610	—	3.0	4.4	
	5	—	—	—	600	—	—	—	400	600	740	—	400	500	570	—	500	600	670	—	3.0	4.4	
I-2	1	14	—	—	510	310	—	—	100	310	440	—	140	310	330	—	210	330	1030	1030	3.1	5.1	
	1	14	—	—	140	140	—	—	100	310	330	—	140	140	140	—	210	330	1030	1030	4.0	6.0	
	5	18	—	—	139	470	—	—	100	710	780	—	140	128	140	—	210	330	1030	1030	3.6	5.6	
	5	24	—	—	139	510	—	—	100	710	800	—	140	128	140	—	210	330	1030	1030	3.6	5.6	
	2	12	—	—	260	260	—	—	100	700	640	—	140	116	140	—	210	330	620	620	3.5	5.5	
	2	14	—	—	260	140	—	—	100	710	640	—	140	116	140	—	210	330	620	620	3.5	5.5	
	2	14	—	—	240	480	—	—	100	700	600	—	140	128	140	—	210	330	620	620	3.6	5.6	
	2	14	—	—	300	300	—	—	100	700	680	—	140	128	140	—	210	330	620	620	3.6	5.6	
	2	14	—	—	240	480	—	—	100	700	600	—	140	128	140	—	210	330	620	620	3.6	5.6	
	2	14	—	—	240	480	—	—	100	700	600	—	140	128	140	—	210	330	620	620	3.6	5.6	
	2	14	—	—	240	480	—	—	100	700	600	—	140	128	140	—	210	330	620	620	3.6	5.6	
	2	7	7	—	240	240	300	—	140	700	710	—	140	340	370	—	210	340	620	620	3.0	4.4	
	1	7	8	—	140	140	200	—	140	700	810	—	140	340	370	—	210	340	620	620	3.4	5.4	
	1	7	8	—	140	140	200	—	140	700	810	—	140	340	370	—	210	340	620	620	3.4	5.4	
	1	7	24	—	139	139	—	—	100	700	640	—	140	116	140	—	210	330	620	620	3.4	5.4	
	1	3	—	—	236	236	286	—	100	700	710	—	140	340	370	—	210	330	620	620	3.6	5.6	
	I-3	1	3	12	—	172	232	310	—	100	700	880	—	140	210	240	—	210	700	1030	1030	3.8	5.8
		1	3	18	—	140	140	370	—	100	700	880	—	140	210	240	—	210	700	1030	1030	3.8	5.8
1		12	6	—	150	370	370	—	140	700	880	—	140	310	370	—	210	800	1030	1030	3.0	4.4	
1		12	18	—	130	330	330	—	140	700	880	—	140	310	370	—	210	800	1030	1030	3.0	4.4	
6		3	4	—	530	530	530	—	140	710	810	—	140	114	140	—	210	330	1030	1030	4.0	6.0	
6		3	12	—	240	240	330	—	140	700	880	—	140	114	140	—	210	330	1030	1030	3.6	5.6	
6		3	6	—	170	170	330	—	140	700	680	—	140	114	140	—	210	330	620	620	3.6	5.6	
6		12	2	—	160	240	240	—	140	700	680	—	140	114	140	—	210	330	620	620	3.6	5.6	
1		12	3	—	240	240	330	—	140	710	810	—	140	114	140	—	210	330	620	620	4.4	6.4	
1		12	3	—	240	240	330	—	140	710	810	—	140	114	140	—	210	330	620	620	4.4	6.4	
1		7	7	1	172	172	172	172	780	780	880	—	140	214	240	—	210	700	1030	1030	3.8	5.8	
1		7	7	9	180	180	180	240	780	780	880	—	140	214	240	—	210	700	1030	1030	3.8	5.8	
1		7	7	7	140	140	140	240	780	780	880	—	140	214	240	—	210	700	1030	1030	3.0	4.4	
1		7	7	7	130	130	130	240	780	780	880	—	140	214	240	—	210	700	1030	1030	3.0	4.4	
1		7	4	9	160	160	160	180	780	780	880	—	140	214	240	—	210	700	1030	1030	3.0	4.4	
1		7	4	7	140	140	140	140	780	780	880	—	140	214	240	—	210	700	1030	1030	4.4	6.4	
1		3	1	9	140	140	140	180	780	780	880	—	140	214	240	—	210	700	1030	1030	3.6	5.6	
1		3	1	2	138	140	140	230	780	780	880	—	140	210	240	—	210	700	1030	1030	3.6	5.6	
6	3	3	9	170	170	170	170	780	780	880	—	140	210	240	—	210	700	1030	1030	3.6	5.6		
6	3	3	1	140	140	140	230	780	780	880	—	140	214	240	—	210	700	1030	1030	4.4	6.4		





4U25HS1ERA

HEATING

Comb	Condensing				Indoor (outdoor) fan-cooling				Matching outdoor				One-zone matching				Two-zone matching				COOLING Power capacity	COOLING EER/SEER
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
I-1	1	—	—	—	240	—	—	—	100	240	400	—	140	340	120	—	210	340	1030	—	3.2	5.2
	2	—	—	—	240	—	—	—	100	240	410	—	140	340	121	—	210	340	1030	—	3.2	5.2
	3	—	—	—	240	—	—	—	100	340	410	—	140	140	140	—	210	440	670	—	3.0	4.4
	4	—	—	—	240	—	—	—	175	240	340	—	140	170	190	—	210	690	610	—	3.0	4.4
	5	—	—	—	600	—	—	—	400	600	740	—	400	600	670	—	500	600	670	—	3.0	4.4
I-2	1	12	—	—	200	300	—	—	100	700	640	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	12	—	—	200	300	—	—	100	700	640	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	14	—	—	240	340	—	—	100	700	670	—	140	330	350	—	210	330	620	620	3.2	5.2
	1	7	7	—	200	200	240	—	140	700	710	—	140	340	370	—	210	340	620	620	3.0	4.4
	1	7	8	—	140	140	200	—	140	700	810	—	140	340	370	—	210	340	620	620	3.4	5.4
	1	7	8	—	140	140	200	—	140	700	810	—	140	340	370	—	210	340	620	620	3.4	5.4
	1	7	24	—	139	139	—	—	100	700	640	—	140	116	140	—	210	330	620	620	3.4	5.4
	1	3	—	—	200	200	240	—	100	700	710	—	140	340	370	—	210	330	620	620	3.6	5.6
	I-3	1	3	12	—	172	232	310	—	100	700	880	—	140	210	240	—	210	700	1030	1030	3.8
1		3	18	—	140	140	370	—	100	700	880	—	140	210	240	—	210	700	1030	1030	3.8	5.8
1		12	6	—	150	370	370	—	140	700	880	—	140	310	370	—	210	800	1030	1030	3.0	4.4
1																						



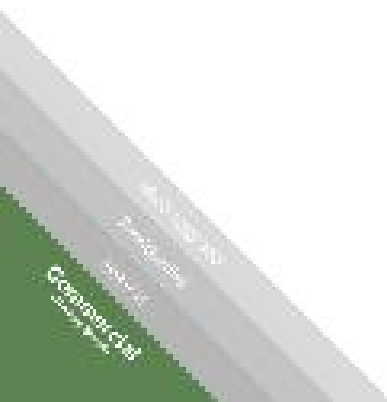
COMMERCIAL
(Unitary Smart)

	12000	18000	24000	28000	36000	48000	60000
Btu/h	12000	18000	24000	28000	36000	48000	60000
KW	4.1	5.2	7.0	8.2	10.5	14.0	17.5
Universal outdoor unit							
Cassette type							
Concealable type							
Ceiling concealed duct type esp. 30Pa							
Medium static pressure duct type esp. 50Pa							
High static pressure duct type esp. 100Pa							

* Model specifications and model pictures provided for reference only. Actual product appearance may vary.

COMMERCIAL

Unitary smart - DC Inverter Model lineup

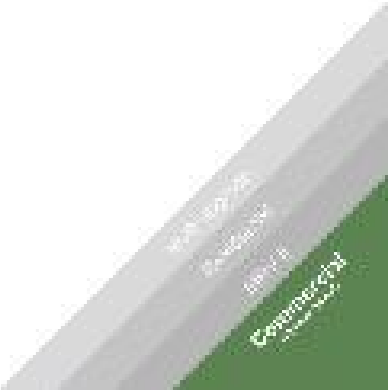
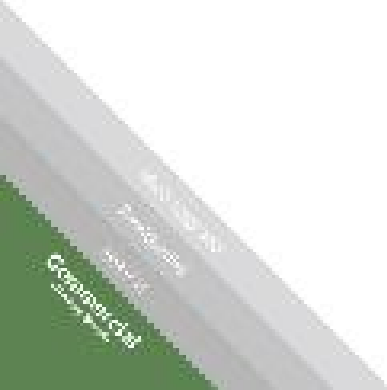


	12000	18000	24000	28000	36000	36000	42000	48000	50000	64000
Btu/h										
KW	3.5	5.2	7.0	8.2	10.5	10.5	12.5	14.0	17.5	24.0
Universal outdoor unit										
Cassette type										
Convertible type										
Ceiling concealed duct type esp. 30Pa										
Medium static pressure duct type esp. 50Pa										
High static pressure duct type esp. 100Pa										
Cabinet type										

* Model specifications and model pictures are for reference only. Actual specifications and pictures may vary.

COMMERCIAL

Unitary smart - On/Off
Model lineup



Unitary Smart DC Inverter



High efficient compressor

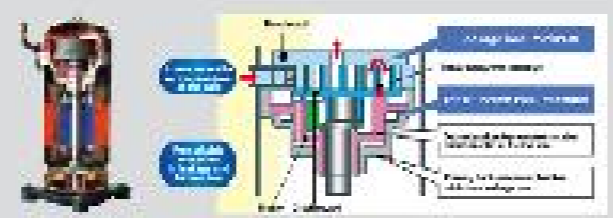
DC inverter twin rotary compressor (AU12-AU35)
The Reluctance DC Motor of compressor utilize powerful neodymium magnet which is 10 times more powerful than conventional magnet.

- The compressor is much more energy efficient than conventional compressor.
- Wider working range of compressor matches customer's variable requirement.
- Twin mechanism and DC inverter control makes low vibration and reduces the noise drastically.



DC scroll compressor (AU48/A60)

The highly efficient scroll compressor is equipped with a "Flexible Mechanism" that allows movement in the axial direction of the frame supporting the scroll scroll. This greatly reduces both leakage and friction loss, ensuring very high efficiency throughout the speed range.



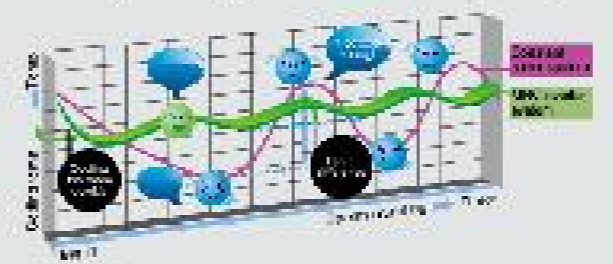
DC inverter technology

Powerful startup

Higher DC inverter system can startup and running at maximum frequency very quickly in order to reach the set temperature in the shortest time, which brings you great comfort experience.

Minimum running

Higher DC inverter system will reduce the frequency and running smoothly according to the real load request after reach the set temperature. The system running case reduced drastically which brings you real benefit of money saving.



Automatic control

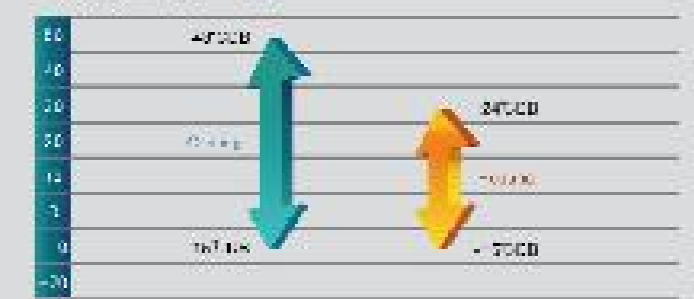
Precise control

- The temperature sensor can measure the temperature precisely with only 0.5°C tolerances, which transfer the exact requirement to the system to adjust the coil pressure frequency accordingly.
- Once reach the set temperature, the system adjust the frequency smoothly according to the real time request and always maintain the temperature without fluctuation.

Wider operation range

Higher DC inverter provide much wider working range that is suitable for special cooling, heating requirement. The Unitary Smart DC Inv. outdoor unit default production with AC fan motor. DC fan motor is for optional choice with additional cost.

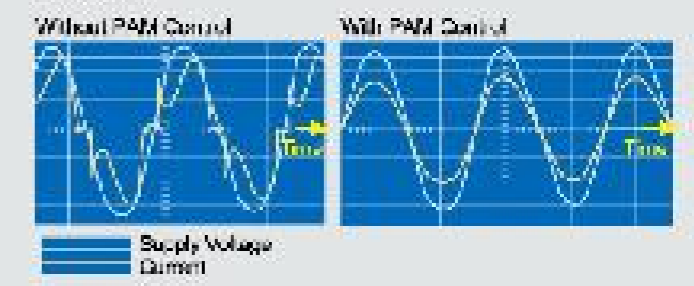
- Default production working range
Cooling: +10°C ~ +43°C
Heating: -15°C ~ +24°C
- Optional production working range
Cooling: -18°C ~ +43°C
Heating: -12°C ~ +24°C



PAM control technique

PAM control

PAM (Pulse Amplitude Modulation) control technique control how often the converter switches on and off then adjust the form of the current wave to be more smoothly and close to the supply voltage wave, which greatly increase the power factor and reduce the energy loss.



COMMERCIAL

Technology & Function



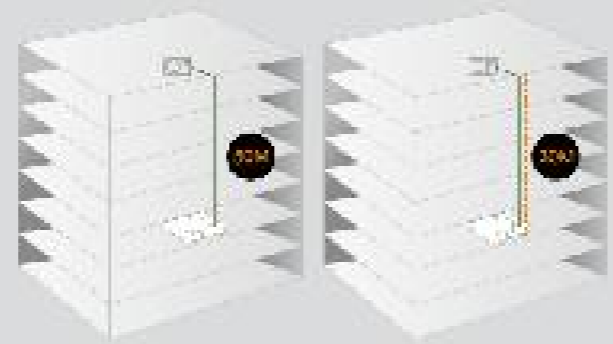
Unitary Smart On/Off

Installation

Cooling capacity 236000Btu/h

- Max. piping length can be up to 50m
- Max. drop between indoor and outdoor unit can be up to 30m

With Heat's design, you can install the indoor and outdoor units in any places optionally.



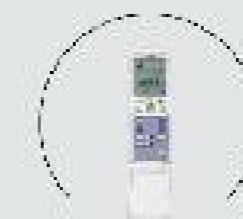
Variable Control



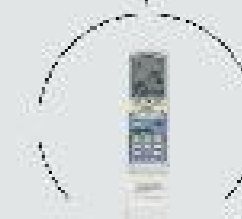
Nano Infrared controller
Model: YR-HC
Function: Unit operating
For indoor unit
For duct type, Cassette, Concealable



Nano Infrared controller
Model: YR-HA
Function: Unit operating
For indoor unit
For duct type, Cassette, Concealable



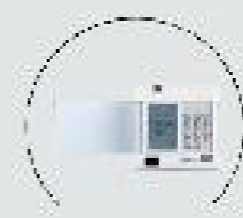
Nano Infrared controller
Model: YR-HB
Function: Unit operating
For indoor unit
For duct type, Cassette, Concealable



Nano Infrared controller
Model: YR-HT
Function: Unit operating
For indoor unit
For duct type, Cassette, Concealable



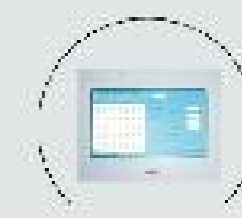
Nano Water controller
Model: YR-F14
Function: Unit operating and group control (Max 16 indoor units)
For indoor unit
Duct type, Cassette, Concealable



Nano weekly timer
Model: YC5-A011
Function: Set the following 7 days working state
For indoor unit
Unitary smart



Nano Central controller
Model: YC2-A011
Function: Central control
For indoor unit
Unitary smart



Nano Central controller
Model: YC3-A011
Function: Central control
For indoor unit
Unitary smart

Reliable function

- Protect function**
The system has many protect function as follows (etc.) so it can realize reliable running.
- High-pressure protection
 - Low-pressure protection
 - Overheating protection
 - Power phase protection
 - Over-current protection
 - Overload protection
 - Frozen protection

Checking malfunction
Failure codes displayed by LED on controllers are so detailed for us to find the fail place more quickly, and can judge the failure content easily.

Wider range operation

The Unitary Smart On/Off outdoor unit default production without fan speed controller, fan speed controller is for optional choice with additional cost.

- Default production working range
Cooling: 11°C ~ 43°C
Heating: -7°C ~ +2°C
- Optional production working range
Cooling: -15°C ~ +43°C
Heating: -7°C ~ +24°C



COMMERCIAL

Technology & Function



CASSETTE TYPE

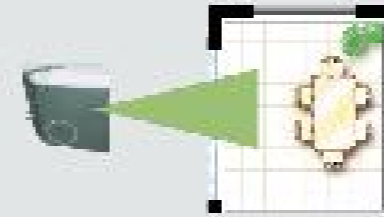
Quiet operation

The fan blade adopts the design of irregular blades, the indoor unit can run at the lowest sound level.



Fresh air inlet

Pre-set fresh air inlet can introduce the outside fresh air into the room, greatly improve the indoor air quality, away from "air conditioner system".



Antifouling and movable blade

The movable blade has antifouling design and can effectively control the airflow and air direction. It is clean to use without polluting the ceiling. It has standard long acting filter screen to make the cleaning time largely extended. When there are many units, the operation of cleaning and maintenance will be largely reduced.



Built-in high head drain pump

A standard drain-head height up to 500mm is possible, covering the wide wet floor for perfect water drainage.



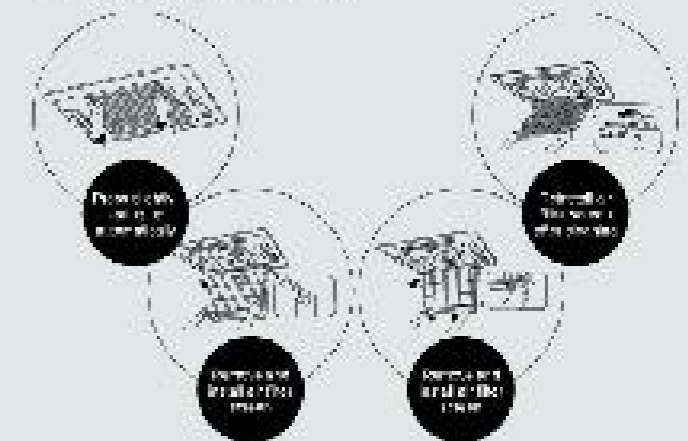
Branch outlet

It is possible to use 1 or 2 branches for better air distribution (optional).



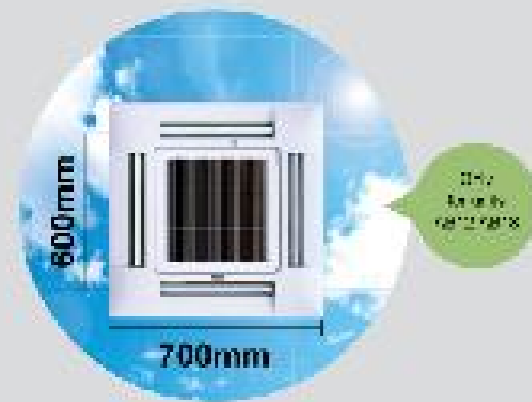
Advanced structure facilitating cleaning and installation

The suction grille can be rotated by 90 degree and its installation direction can be selected randomly.



New panel design

The panel dimension is 700mm*700mm, smaller and universal. Harmony with the environment. The unit dimension is 570mm*570mm*280mm for easy installation. It is universal and harmonious with standard ceiling 600mm*600mm, which avoids the breakage for ceiling during installation.



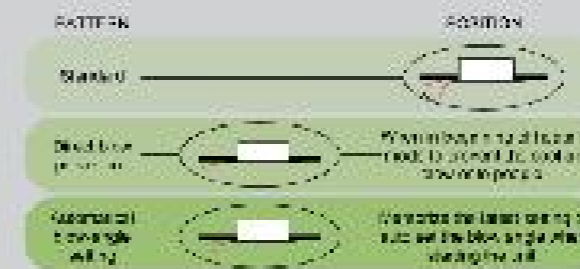
Compact design

Adopts compact design, the thickness of the main body is only 24mm. Even if the inner space of ceiling is narrow, the unit can also be installed easily.



Comfortable temperature control system

3 types of swing operation for convenient in different space.



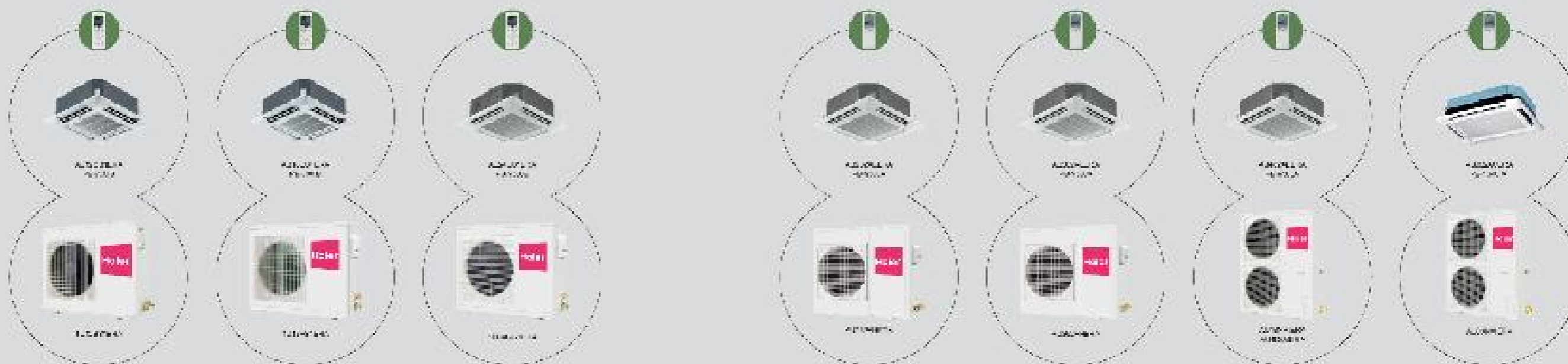
COMMERCIAL

Unitary smart





Cassette type - DC Inverter



COMMERCIAL

Unitary smart - DC inverter



Cassette type - DC inverter

Model / indoor unit			AD050C107A	AD150C107A	AD250C107A	AD350C107A	AD450C107A	AD550C107A	AD650C107A	AD850C107A
Capacity (Cooling)	Ceiling	12000	14000	16000	18000	20000	22000	24000	26000	28000
	Wall	9000-12000	10000-13000	11000-14000	12000-15000	13000-16000	14000-17000	15000-18000	16000-19000	17000-20000
Capacity (Heating)	Ceiling	12000	14000	16000	18000	20000	22000	24000	26000	28000
	Wall	9000-12000	10000-13000	11000-14000	12000-15000	13000-16000	14000-17000	15000-18000	16000-19000	17000-20000
Power supply	1Phase	10000VA/03	12000VA/03	14000VA/03	16000VA/03	18000VA/03	20000VA/03	22000VA/03	24000VA/03	26000VA/03
Air flow	CFM	6000-7000	6800-7800	7600-8600	8400-9400	9200-10200	10000-11000	10800-11800	11600-12600	12400-13400
Water flow	L/min	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100
External dimensions (WxDxH)	mm	600x600x240	600x600x240	600x600x240	600x600x240	600x600x240	600x600x240	600x600x240	600x600x240	600x600x240
Shipping dimensions (WxDxH)	mm	710x730x100	710x730x100	710x730x100	710x730x100	710x730x100	710x730x100	710x730x100	710x730x100	710x730x100
Net Weight (kg)	kg	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
Power (kW)	kW	70-7000	70-7000	70-7000	70-7000	70-7000	70-7000	70-7000	70-7000	70-7000
Control (Remote control / Smart control)	Local (Standard) (M/M)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mobile (Smart) (M/M)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Mobile (App) (M/M)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation										
Refrigerant (kg)	kg	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
Defrost (min)	min	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Max. pipe length	m	30	30	30	30	30	30	30	30	30
Max. pipe diameter (mm)	mm	10	10	10	10	10	10	10	10	10
Unit code (Remote control / Smart control)	Standard (M/M)	70-1000	70-1000	70-1000	70-1000	70-1000	70-1000	70-1000	70-1000	70-1000
	Smart (M/M)	70-1001	70-1001	70-1001	70-1001	70-1001	70-1001	70-1001	70-1001	70-1001
Model / outdoor unit			U-1000RHR	U-1400RHR	U-1800RHR	U-2200RHR	U-2600RHR	U-3000RHR	U-3400RHR	U-3800RHR
Power supply	1Phase	12000	14000	16000	18000	20000	22000	24000	26000	28000
Power (kW) (Cooling)	Wall/Outdoor	1.000-2.0-1.70	1.000-2.0-1.70	1.000-2.0-1.70	1.000-2.0-1.70	1.000-2.0-1.70	1.000-2.0-1.70	1.000-2.0-1.70	1.000-2.0-1.70	1.000-2.0-1.70
	Wall/Indoor	0.700-2.0-1.25	0.700-2.0-1.25	0.700-2.0-1.25	0.700-2.0-1.25	0.700-2.0-1.25	0.700-2.0-1.25	0.700-2.0-1.25	0.700-2.0-1.25	0.700-2.0-1.25
EER/COP	Cooling	3.00-3.1	3.00-3.1	3.00-3.1	3.00-3.1	3.00-3.1	3.00-3.1	3.00-3.1	3.00-3.1	3.00-3.1
	Heating	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
External dimensions (WxDxH)	mm	440x440x110	440x440x110	440x440x110	440x440x110	440x440x110	440x440x110	440x440x110	440x440x110	440x440x110
Shipping dimensions (WxDxH)	mm	500x500x140	500x500x140	500x500x140	500x500x140	500x500x140	500x500x140	500x500x140	500x500x140	500x500x140
Net Weight (kg)	kg	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
Complete (gas) (kg)	kg	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Wiring data										
Cable (mm)	mm	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40
Wiring (mm)	mm	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40

Unit code (Remote control / Smart control) (M/M) 70-1000 70-1001
 Unit code (Remote control / Smart control) (M/M) 70-1000 70-1001
 Unit code (Remote control / Smart control) (M/M) 70-1000 70-1001

COMMERCIAL

Unitary smart - DC inverter





Cassette type - On/Off



COMMERCIAL

Unitary smart - On/Off



Cassette type - On/Off

Model / indoor unit			RC 25000A	AD18000A	AD24000A	AD32000A	AD36000A	AD36000A	AD36000A	AD36000A	AD36000A	AD36000A	AD36000A
Capacity (Cooling)	Chilled water	14000	15700	20200	25000	28000	30000	30000	30000	30000	30000	30000	30000
	Water/glycol mix	4.1	4.4	5.4	6.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Capacity (Heating)	Water/glycol mix	18700	19700	25200	30000	32000	32000	32000	32000	32000	32000	32000	32000
	Water/glycol mix	4.4	4.4	5.4	6.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Power supply	1Phase	120000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000
W. flow	g/s	20000/1700	17000/1600	22000/1900	25000/2000	28000/2000	30000/2000	30000/2000	30000/2000	30000/2000	30000/2000	30000/2000	30000/2000
Water flow	l/s	15000	13000	16000	19000	21000	21000	21000	21000	21000	21000	21000	21000
External dimensions (WxDxH)	mm	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200
Shipping dimensions (WxDxH)	mm	710x510x230	710x510x230	710x510x230	710x510x230	710x510x230	710x510x230	710x510x230	710x510x230	710x510x230	710x510x230	710x510x230	710x510x230
Net Weight (kg)	kg	14.5	15.5	19.5	23.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
Pipe (mm)	Refrigerant (R410A)	70-700A	70-700A	70-700A	70-700A	70-700A	70-700A	70-700A	70-700A	70-700A	70-700A	70-700A	70-700A
	Condensate (PVC)	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25
	Water supply (PPR)	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25
	Drainage (PVC)	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25	Ø25-Ø25
Installation													
Horizontal clearance	mm	100	100	100	100	100	100	100	100	100	100	100	100
Vertical clearance	mm	100	100	100	100	100	100	100	100	100	100	100	100
Max. pipe length	m	10	10	10	10	10	10	10	10	10	10	10	10
Max. pipe between U&CU	m	5	5	5	5	5	5	5	5	5	5	5	5
Cable size (Refrigerant pipe) (Ø x wall thickness)	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16
	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16	Ø16-Ø16
Model / outdoor unit			RC 25000A	AD18000A	AD24000A	AD32000A	AD36000A	AD36000A	AD36000A	AD36000A	AD36000A	AD36000A	AD36000A
Power supply	1Phase	120000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000	100000
Power (kW) (Cooling)	Water/glycol mix	1.3	1.7	2.4	3.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	Water/glycol mix	1.27	1.7	2.2	3.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
EER/COP	Water/glycol mix	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
	Water/glycol mix	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
External dimensions	mm	610	610	610	610	610	610	610	610	610	610	610	610
W. flow (L)	g/s	2000	1700	1900	2200	2400	2400	2400	2400	2400	2400	2400	2400
Water flow (L)	l/s	15	13	14	16	18	18	18	18	18	18	18	18
External dimensions (WxDxH)	mm	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200	610x410x200
Shipping dimensions (WxDxH)	mm	600x400x190	600x400x190	600x400x190	600x400x190	600x400x190	600x400x190	600x400x190	600x400x190	600x400x190	600x400x190	600x400x190	600x400x190
Net Weight (kg)	kg	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Compressor gas (R410A) (kg)	kg	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Warning													
Code A	None	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40
Code B	Refrigerant (g)	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40
Code C	None	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40

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COMMERCIAL

Unitary smart - On/Off



CONVERTIBLE TYPE

Ultra-thin unit body, only thick 199mm

The convertible indoor unit adopts a double drain pan design, the unit body is very thin, only 199mm. It is beautiful, elegant and space saving.



Long-life & High efficiency air purify filter

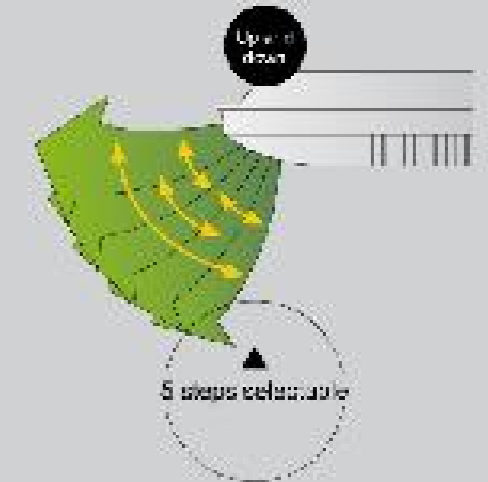
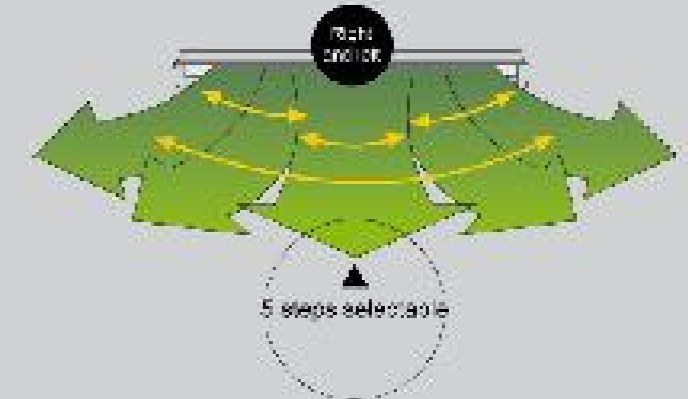
The unit adopts high efficiency air purify filter, greatly improves the room air quality. At the same time,



Automatic control of airflow direction

In order to realize the comfortable space with uniform temperature, the air conditioner uses two stepping motors to adjust the airflow automatically, send the air to every corner of the room. When heating, it will supply large quantity of warm air in order to quickly and effectively warm up the floor, and it will send the airflow from top to bottom, until the cool air reach every corner of the room at the cooling mode.

The airflow direction can be controlled in 8 steps from up to down and from left to right, more so elastic, more flexible.



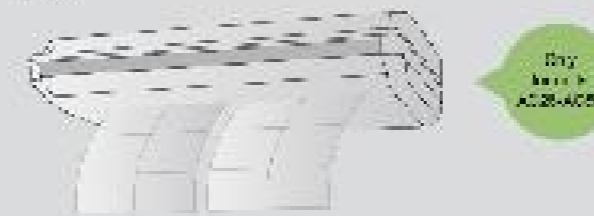
Fresh-air intake

There are fresh air intake holes in the unit, which can make the air more comfortable.



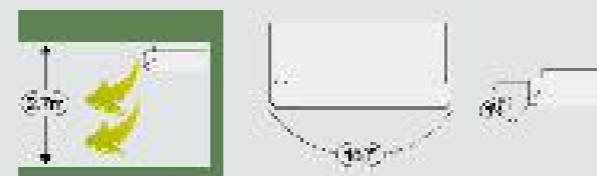
Taken-out air purify filter

The filter can be easily take out, you need not take down the unit or open the air inlet grill, and realize convenient cleaning work.



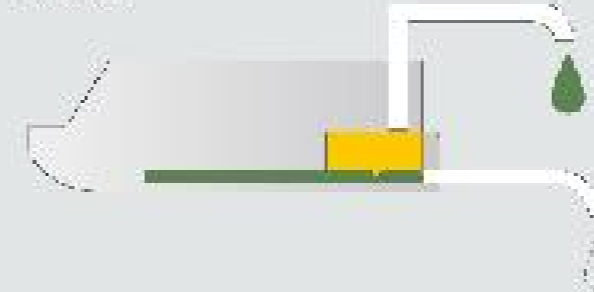
Large angle air supplying

100° wide angle covers and 70° wide angle blades design to make a precise control of the airflow, it equally distribute the comfortable air to every corner of the room.



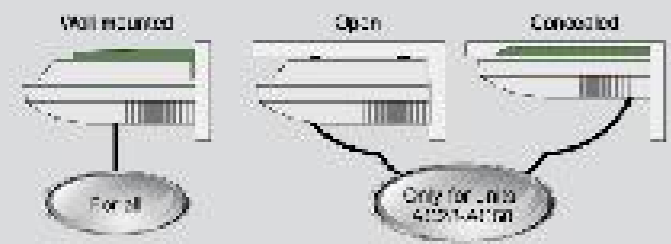
Optional drain water modes

Optional drain water lift-up mechanism offers more flexible installation.



Optional installation mode

The indoor unit can be installed on the floor or on the ceiling, it is determined by your actual need. It greatly decreases the space needed and it can give you the sensation of comfort, at the same time make service and installation more convenient and flexible.



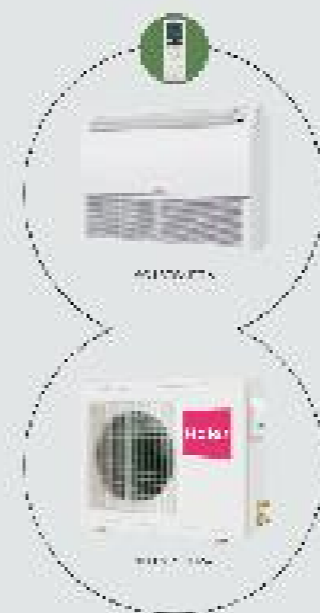
COMMERCIAL

Unitary smart

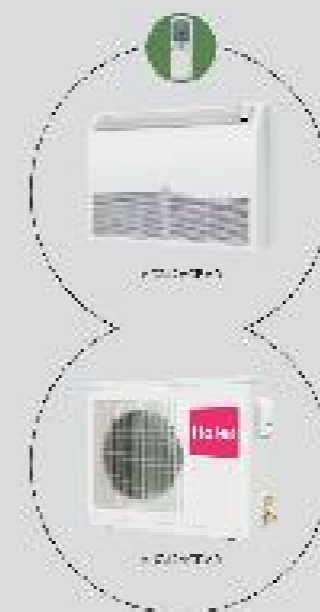




Convertible type - DC inverter



Convertible type - On/Off



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Convertible type - DC inverter

Model / outdoor unit		AS07SDPRA	AS12SDPRA	AS18SDPRA	AS25SDPRA	AS35SDPRA	AS50SDPRA	AS65SDPRA	AS80SDPRA
Capacity (Cooling)	kW	7.500	11.000	15.000	20.000	28.000	38.000	50.000	65.000
Capacity (Heating)	kW	7.114-11.7	10.281-15.4	13.858-21.1	18.822-28.2	25.772-38.5	34.772-51.8	45.772-68.9	60.772-88.2
	kW	10.400	15.000	20.000	27.000	37.000	49.000	64.000	84.000
Power supply	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8
Capacity (kW)	kW	2000-2400	3000-3600	4000-4800	5000-6000	6500-7800	8500-10200	11000-13200	14000-16800
Rated load (kW)	kW	410-700	600-1000	800-1400	1100-1900	1400-2400	1800-3000	2300-3800	2900-4800
External dimensions (WxDH)	mm	580-710	840-1010	1100-1300	1400-1650	1750-2050	2150-2500	2600-3000	3100-3600
Shipping dimensions (WxDH)	mm	1160-1380	1680-2020	2200-2600	2800-3300	3500-4100	4300-5000	5200-6000	6200-7200
Net weight (kg)	kg	24-30	34-42	46-56	62-74	81-98	104-124	131-154	163-191
Installation									
Refrigerant type	mm	R32	R32	R32	R32	R32	R32	R32	R32
Refrigerant pipe	mm	9.52	12.7	15.88	19.05	25.4	31.75	38.1	47.63
Refrigerant pipe	m	15	20	25	30	35	40	45	50
Maximum length (m)	m	15	15	15	15	15	15	15	15
Capacity (kW) (Cooling)	kW	10-11.0	15-16.0	20-21.0	25-27.0	35-40.0	45-50.0	60-65.0	80-85.0
Capacity (kW) (Heating)	kW	10-11.0	15-16.0	20-21.0	25-27.0	35-40.0	45-50.0	60-65.0	80-85.0
Model / outdoor unit									
Capacity (Cooling)	kW	10.000	15.000	20.000	28.000	38.000	50.000	65.000	85.000
Capacity (Heating)	kW	10.000-15.0	15.000-22.0	20.000-28.0	28.000-38.0	38.000-50.0	50.000-65.0	65.000-85.0	85.000-110.0
	kW	13.2-22.1	18.9-28.2	25.7-35.0	34.7-45.8	45.8-59.9	59.9-77.2	77.2-99.1	99.1-127.4
Power supply	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8
Capacity (kW)	kW	2000-2400	3000-3600	4000-4800	5000-6000	6500-7800	8500-10200	11000-13200	14000-16800
Rated load (kW)	kW	410-700	600-1000	800-1400	1100-1900	1400-2400	1800-3000	2300-3800	2900-4800
External dimensions (WxDH)	mm	580-710	840-1010	1100-1300	1400-1650	1750-2050	2150-2500	2600-3000	3100-3600
Shipping dimensions (WxDH)	mm	1160-1380	1680-2020	2200-2600	2800-3300	3500-4100	4300-5000	5200-6000	6200-7200
Net weight (kg)	kg	24-30	34-42	46-56	62-74	81-98	104-124	131-154	163-191
Compressor type (Scroll/Rotary)		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Work voltage									
Cooling (Nominal)	V	11-24	11-24	11-24	11-24	11-24	11-24	11-24	11-24
Heating (Auxiliary DC Volt)	V	-	-	-12-12	-12-12	-12-12	-	-	-12-12
Heating	V	11-24	11-24	11-24	11-24	11-24	11-24	11-24	11-24

Model designation code: A - Model number, B - Model number, C - Model number, D - Model number, E - Model number, F - Model number, G - Model number, H - Model number, I - Model number, J - Model number, K - Model number, L - Model number, M - Model number, N - Model number, O - Model number, P - Model number, Q - Model number, R - Model number, S - Model number, T - Model number, U - Model number, V - Model number, W - Model number, X - Model number, Y - Model number, Z - Model number.

Convertible type - On/Off

Model / outdoor unit		AS12SDPRA	AS18SDPRA	AS25SDPRA	AS35SDPRA	AS50SDPRA	AS65SDPRA	AS80SDPRA	AS100SDPRA
Capacity (Cooling)	kW	12.000	18.000	25.000	35.000	50.000	65.000	85.000	110.000
Capacity (Heating)	kW	12.000	18.000	25.000	35.000	50.000	65.000	85.000	110.000
	kW	12.000	18.000	25.000	35.000	50.000	65.000	85.000	110.000
Power supply	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8
Capacity (kW)	kW	2000-2400	3000-3600	4000-4800	5000-6000	6500-7800	8500-10200	11000-13200	14000-16800
Rated load (kW)	kW	410-700	600-1000	800-1400	1100-1900	1400-2400	1800-3000	2300-3800	2900-4800
External dimensions (WxDH)	mm	580-710	840-1010	1100-1300	1400-1650	1750-2050	2150-2500	2600-3000	3100-3600
Shipping dimensions (WxDH)	mm	1160-1380	1680-2020	2200-2600	2800-3300	3500-4100	4300-5000	5200-6000	6200-7200
Net weight (kg)	kg	24-30	34-42	46-56	62-74	81-98	104-124	131-154	163-191
Installation									
Refrigerant type	mm	R32	R32	R32	R32	R32	R32	R32	R32
Refrigerant pipe	mm	12.7	15.88	19.05	25.4	31.75	38.1	47.63	57.15
Refrigerant pipe	m	15	20	25	30	35	40	45	50
Maximum length (m)	m	15	15	15	15	15	15	15	15
Capacity (kW) (Cooling)	kW	10-11.0	15-16.0	20-21.0	25-27.0	35-40.0	45-50.0	60-65.0	80-85.0
Capacity (kW) (Heating)	kW	10-11.0	15-16.0	20-21.0	25-27.0	35-40.0	45-50.0	60-65.0	80-85.0
Model / outdoor unit									
Capacity (Cooling)	kW	12.000	18.000	25.000	35.000	50.000	65.000	85.000	110.000
Capacity (Heating)	kW	12.000	18.000	25.000	35.000	50.000	65.000	85.000	110.000
	kW	12.000	18.000	25.000	35.000	50.000	65.000	85.000	110.000
Power supply	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8	1/3/5/6/8
Capacity (kW)	kW	2000-2400	3000-3600	4000-4800	5000-6000	6500-7800	8500-10200	11000-13200	14000-16800
Rated load (kW)	kW	410-700	600-1000	800-1400	1100-1900	1400-2400	1800-3000	2300-3800	2900-4800
External dimensions (WxDH)	mm	580-710	840-1010	1100-1300	1400-1650	1750-2050	2150-2500	2600-3000	3100-3600
Shipping dimensions (WxDH)	mm	1160-1380	1680-2020	2200-2600	2800-3300	3500-4100	4300-5000	5200-6000	6200-7200
Net weight (kg)	kg	24-30	34-42	46-56	62-74	81-98	104-124	131-154	163-191
Compressor type (Scroll/Rotary)		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Work voltage									
Cooling (Nominal)	V	11-24	11-24	11-24	11-24	11-24	11-24	11-24	11-24
Heating (Auxiliary DC Volt)	V	-12-12	-12-12	-12-12	-12-12	-12-12	-12-12	-12-12	-12-12
Heating	V	11-24	11-24	11-24	11-24	11-24	11-24	11-24	11-24

Model designation code: A - Model number, B - Model number, C - Model number, D - Model number, E - Model number, F - Model number, G - Model number, H - Model number, I - Model number, J - Model number, K - Model number, L - Model number, M - Model number, N - Model number, O - Model number, P - Model number, Q - Model number, R - Model number, S - Model number, T - Model number, U - Model number, V - Model number, W - Model number, X - Model number, Y - Model number, Z - Model number.

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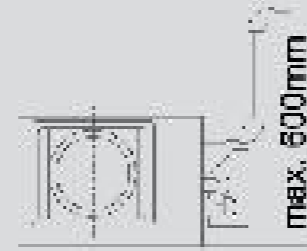
Unitary smart



DUCT TYPE

Special up-drainage water pump

The unit has a water pump whose max. drainage height can be up to 600mm.



Unit's
drain pipe
can be up to
600mm

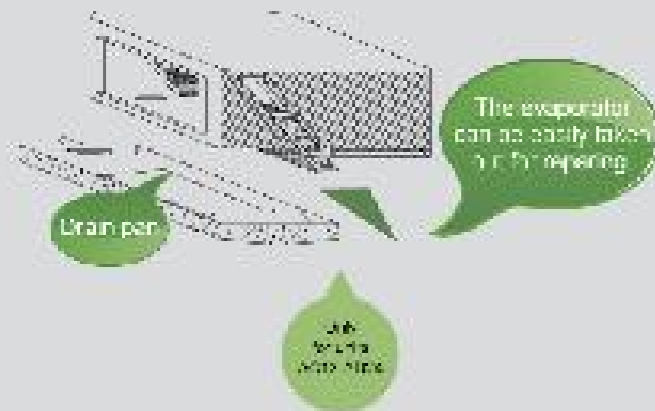
High efficiency filter

The unit accepts G4 grade filter which can efficiently filter the dirt etc. and improve the room air quality. At the same time, the filter can be pulled out from downside, convenient for maintenance and cleaning.



Knock-down drain pan & Double sides water drainage

The drain pan is easy to disassemble, and it can realize the two sides drainage through changing the direction of the drain pan.



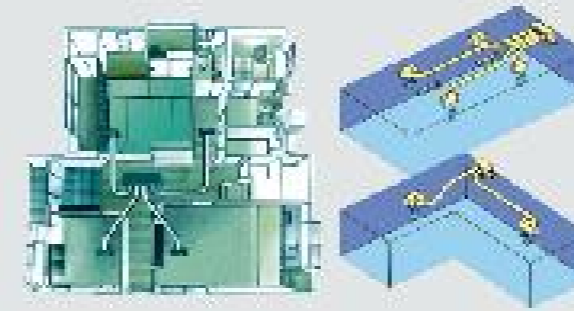
Ultra thin design

For the low static pressure duct type indoor units, the unit thickness is only 220mm, ultra-thin design, the 500mm depth real use space saving and completely matches with the indoor decoration.



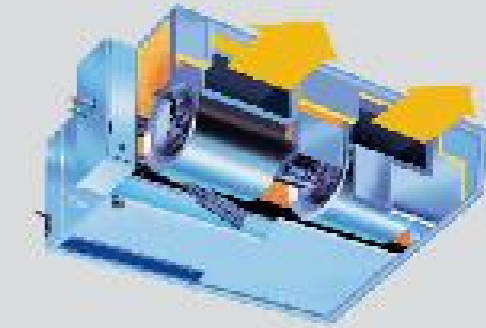
Free setting of air discharge duct

The number of the air discharge duct and its installation position can be freely selected according to the surrounding of the room, sufficiently considering the load of the room and the uniform temperature of the room to realize more perfect comfort.



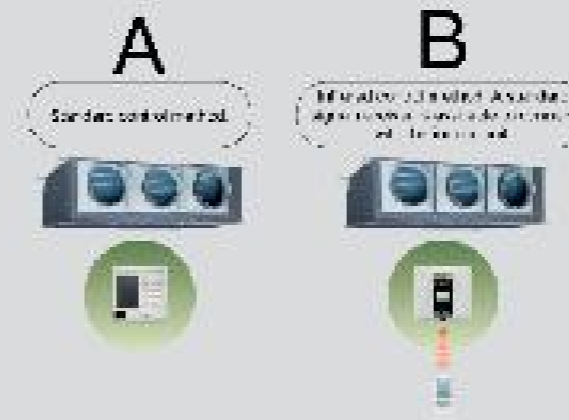
High external static pressure design

Max. external static pressure of 196 Pa brings the quick temperature adjustment to the room. Accepts high pressure fan to provide quick speed of air blowing while keeping a low sound level and ensuring a good air circulation of the whole indoor space. The static pressure from 0 to 196 Pa can be adjusted steplessly according to the environment.



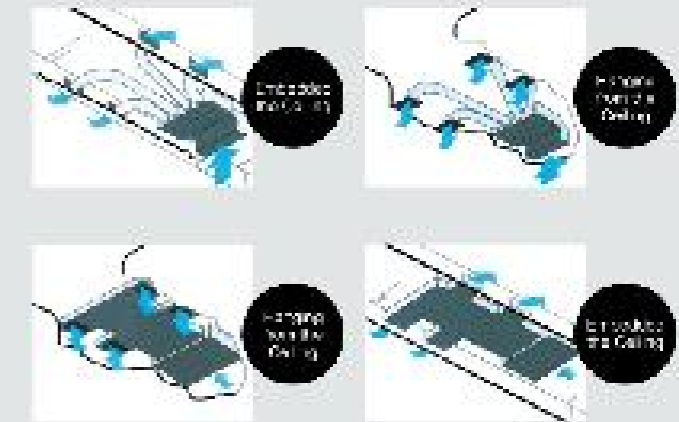
Variable control mode

The indoor unit can use one wired remote controller, also, it can use a remote controller (with new remote receiver) for each.



Multi-mode for installation

The indoor unit can be installed with an air return duct or without an air return duct according to the installation need.



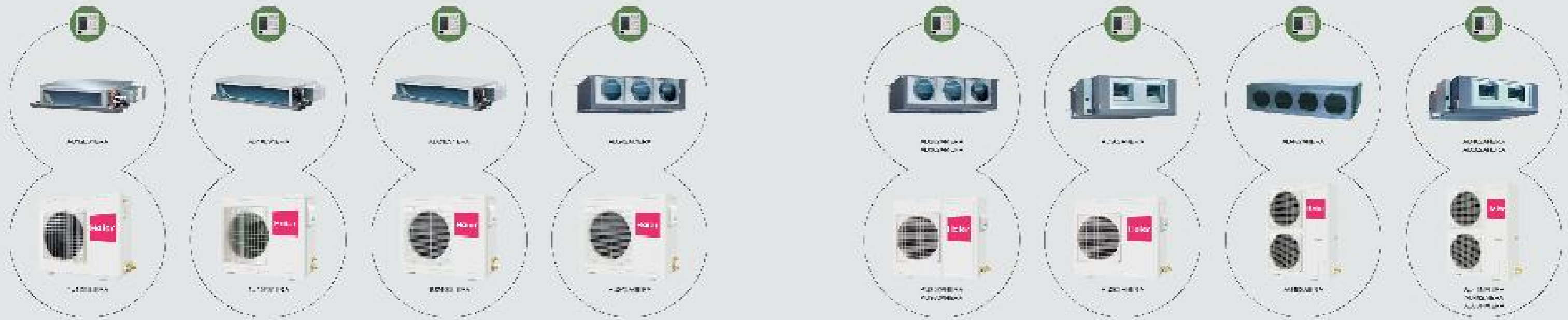
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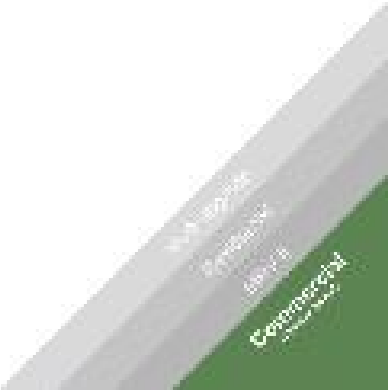
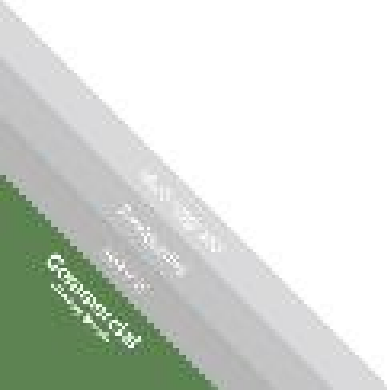


Duct type - DC Inverter



COMMERCIAL

Unitary smart - DC inverter



Duct type - DC inverter

Model / outdoor unit		3000 BTU/A	4000 BTU/A	5000 BTU/A	6000 BTU/A	8000 BTU/A	9000 BTU/A	10000 BTU/A	12000 BTU/A	15000 BTU/A	18000 BTU/A	24000 BTU/A
Capacity (Cooling)	kW/ton	7.0/2.0	9.0/2.6	11.0/3.2	13.0/3.7	17.0/4.9	19.0/5.5	22.0/6.4	26.0/7.6	32.0/9.2	38.0/11.0	50.0/14.4
Capacity (Heating)	kW/ton	7.0/2.0	9.0/2.6	11.0/3.2	13.0/3.7	17.0/4.9	19.0/5.5	22.0/6.4	26.0/7.6	32.0/9.2	38.0/11.0	50.0/14.4
Power supply	Hz/V	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230
Refrigerant	kg	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Dimensions (WxDxH)	mm	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000
Weight (kg)	kg	25	25	25	25	25	25	25	25	25	25	25
Model / outdoor unit		10000 BTU/A	12000 BTU/A	15000 BTU/A	18000 BTU/A	24000 BTU/A	30000 BTU/A	36000 BTU/A	42000 BTU/A	48000 BTU/A	60000 BTU/A	72000 BTU/A
Capacity (Cooling)	kW/ton	13.0/3.7	15.0/4.3	18.0/5.2	21.0/6.1	27.0/7.9	32.0/9.2	36.0/10.4	42.0/12.1	48.0/13.9	60.0/17.3	72.0/20.7
Capacity (Heating)	kW/ton	13.0/3.7	15.0/4.3	18.0/5.2	21.0/6.1	27.0/7.9	32.0/9.2	36.0/10.4	42.0/12.1	48.0/13.9	60.0/17.3	72.0/20.7
Power supply	Hz/V	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230
Refrigerant	kg	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Dimensions (WxDxH)	mm	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000
Weight (kg)	kg	25	25	25	25	25	25	25	25	25	25	25
Model / outdoor unit		10000 BTU/A	12000 BTU/A	15000 BTU/A	18000 BTU/A	24000 BTU/A	30000 BTU/A	36000 BTU/A	42000 BTU/A	48000 BTU/A	60000 BTU/A	72000 BTU/A
Capacity (Cooling)	kW/ton	13.0/3.7	15.0/4.3	18.0/5.2	21.0/6.1	27.0/7.9	32.0/9.2	36.0/10.4	42.0/12.1	48.0/13.9	60.0/17.3	72.0/20.7
Capacity (Heating)	kW/ton	13.0/3.7	15.0/4.3	18.0/5.2	21.0/6.1	27.0/7.9	32.0/9.2	36.0/10.4	42.0/12.1	48.0/13.9	60.0/17.3	72.0/20.7
Power supply	Hz/V	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230
Refrigerant	kg	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Dimensions (WxDxH)	mm	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000
Weight (kg)	kg	25	25	25	25	25	25	25	25	25	25	25
Model / outdoor unit		10000 BTU/A	12000 BTU/A	15000 BTU/A	18000 BTU/A	24000 BTU/A	30000 BTU/A	36000 BTU/A	42000 BTU/A	48000 BTU/A	60000 BTU/A	72000 BTU/A
Capacity (Cooling)	kW/ton	13.0/3.7	15.0/4.3	18.0/5.2	21.0/6.1	27.0/7.9	32.0/9.2	36.0/10.4	42.0/12.1	48.0/13.9	60.0/17.3	72.0/20.7
Capacity (Heating)	kW/ton	13.0/3.7	15.0/4.3	18.0/5.2	21.0/6.1	27.0/7.9	32.0/9.2	36.0/10.4	42.0/12.1	48.0/13.9	60.0/17.3	72.0/20.7
Power supply	Hz/V	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230
Refrigerant	kg	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Dimensions (WxDxH)	mm	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000
Weight (kg)	kg	25	25	25	25	25	25	25	25	25	25	25
Model / outdoor unit		10000 BTU/A	12000 BTU/A	15000 BTU/A	18000 BTU/A	24000 BTU/A	30000 BTU/A	36000 BTU/A	42000 BTU/A	48000 BTU/A	60000 BTU/A	72000 BTU/A
Capacity (Cooling)	kW/ton	13.0/3.7	15.0/4.3	18.0/5.2	21.0/6.1	27.0/7.9	32.0/9.2	36.0/10.4	42.0/12.1	48.0/13.9	60.0/17.3	72.0/20.7
Capacity (Heating)	kW/ton	13.0/3.7	15.0/4.3	18.0/5.2	21.0/6.1	27.0/7.9	32.0/9.2	36.0/10.4	42.0/12.1	48.0/13.9	60.0/17.3	72.0/20.7
Power supply	Hz/V	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230	50/230
Refrigerant	kg	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Dimensions (WxDxH)	mm	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000	400x400x1000
Weight (kg)	kg	25	25	25	25	25	25	25	25	25	25	25

Model / outdoor unit: 10000 BTU/A, 12000 BTU/A, 15000 BTU/A, 18000 BTU/A, 24000 BTU/A, 30000 BTU/A, 36000 BTU/A, 42000 BTU/A, 48000 BTU/A, 60000 BTU/A, 72000 BTU/A. Capacity (Cooling): kW/ton. Capacity (Heating): kW/ton. Power supply: Hz/V. Refrigerant: kg. Dimensions (WxDxH): mm. Weight (kg): kg.

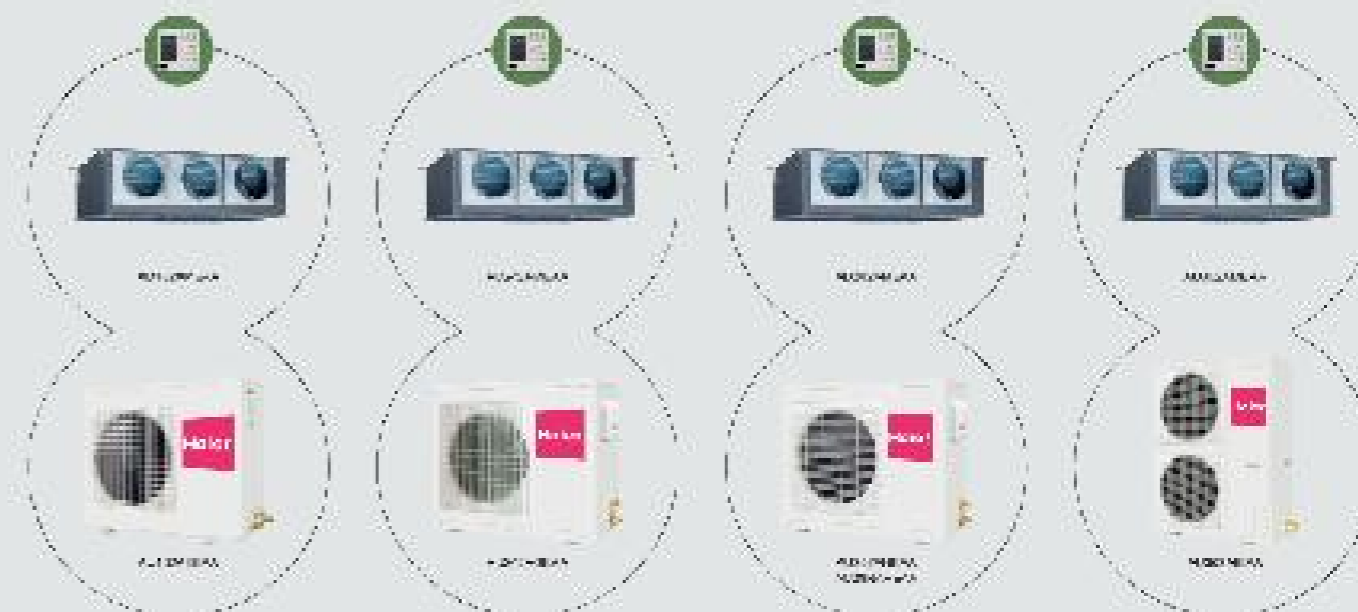
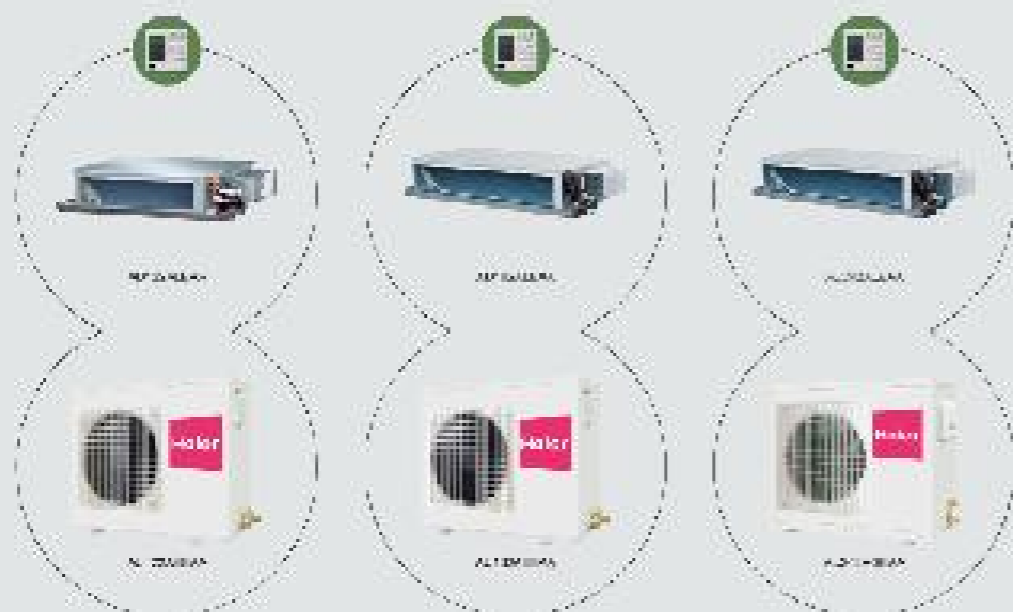
COMMERCIAL

Unitary smart - DC inverter





Duct type - On/Off



COMMERCIAL

Unitary smart - On/Off



Duct type - On/Off

Model / outdoor unit			671891PAA	671892PAA	671893PAA	671894PAA	671895PAA	671896PAA	671897PAA
Capacity (Cooling)	Capacity	kW	15.20	16.00	16.70	17.50	18.20	19.00	19.70
Power (Cooling)	Power (Cooling)	W	4.8	5.0	5.2	5.4	5.6	5.8	6.0
Capacity (Heating)	Capacity	kW	14.20	15.00	15.70	16.50	17.20	18.00	18.70
Power (Heating)	Power (Heating)	W	4.5	4.7	4.9	5.1	5.3	5.5	5.7
Refrigerant	Refrigerant	kg	1.50-1.60/1	1.50/1	1.50/1	1.50/1	1.50/1	1.50/1	1.50/1
Capacity (Cooling)	Capacity	kW	20.00-24.00/10	20.00/10	20.00/10	20.00/10	20.00/10	20.00/10	20.00/10
Power (Cooling)	Power (Cooling)	W	4.94/5.6	4.94/5.6	4.94/5.6	4.94/5.6	4.94/5.6	4.94/5.6	4.94/5.6
Capacity (Heating)	Capacity	kW	18.00-22.00/8	18.00/8	18.00/8	18.00/8	18.00/8	18.00/8	18.00/8
Power (Heating)	Power (Heating)	W	4.66/5.3	4.66/5.3	4.66/5.3	4.66/5.3	4.66/5.3	4.66/5.3	4.66/5.3
Refrigerant weight	Refrigerant weight	kg	1.5/1	1.5/1	1.5/1	1.5/1	1.5/1	1.5/1	1.5/1
Max. capacity	Max. capacity	kg	30	30	30	30	30	30	30
Installation									
Full year runtime	Full year runtime	h	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Refrigerant pipe dia.	Refrigerant pipe dia.	mm	9.5	12.7	12.7	12.7	12.7	12.7	12.7
Max. pipe length	Max. pipe length	m	15	27	30	30	30	30	30
Max. rise between U/OU's	Max. rise between U/OU's	m	5	5	5	5	5	5	5
Compressor (W/Intelligent Compressor)	Compressor (W/Intelligent Compressor)		YK-4-401	YK-4-402	YK-4-403	YK-4-404	YK-4-405	YK-4-406	YK-4-407
Compressor (W/Intelligent Compressor)	Compressor (W/Intelligent Compressor)		YK-4-401	YK-4-402	YK-4-403	YK-4-404	YK-4-405	YK-4-406	YK-4-407
Model / outdoor unit	Model / outdoor unit	Model / outdoor unit	671898PAA	671899PAA	671900PAA	671901PAA	671902PAA	671903PAA	671904PAA
Capacity (Cooling)	Capacity	kW	23.00	23.00	23.00	23.00	23.00	23.00	23.00
Power (Cooling)	Power (Cooling)	W	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Capacity (Heating)	Capacity	kW	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Power (Heating)	Power (Heating)	W	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Refrigerant	Refrigerant	kg	1.50/1	1.50/1	1.50/1	1.50/1	1.50/1	1.50/1	1.50/1
Capacity (Cooling)	Capacity	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power (Cooling)	Power (Cooling)	W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capacity (Heating)	Capacity	kW	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Power (Heating)	Power (Heating)	W	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Refrigerant weight	Refrigerant weight	kg	1.5/1	1.5/1	1.5/1	1.5/1	1.5/1	1.5/1	1.5/1
Compressor type (Intelligent)	Compressor type (Intelligent)		Basic	Basic	Basic	Basic	Basic	Basic	Basic
Weight (kg)									
Capacity (Cooling)	Capacity (Cooling)	kg	12-13	12-13	12-13	12-13	12-13	12-13	12-13
Capacity (Heating)	Capacity (Heating)	kg	12-13	12-13	12-13	12-13	12-13	12-13	12-13
Heating	Heating	kg	12-13	12-13	12-13	12-13	12-13	12-13	12-13

Capacity (Cooling) is based on standard conditions: indoor air temperature 27°C, outdoor air temperature 35°C, wet bulb temperature 24°C, cooling coil temperature 7°C, evaporator temperature 5°C, condenser temperature 45°C, refrigerant subcooling 5°C, superheating 5°C. Capacity (Heating) is based on standard conditions: indoor air temperature 20°C, outdoor air temperature 7°C, evaporator temperature 5°C, condenser temperature 45°C, refrigerant subcooling 5°C, superheating 5°C.

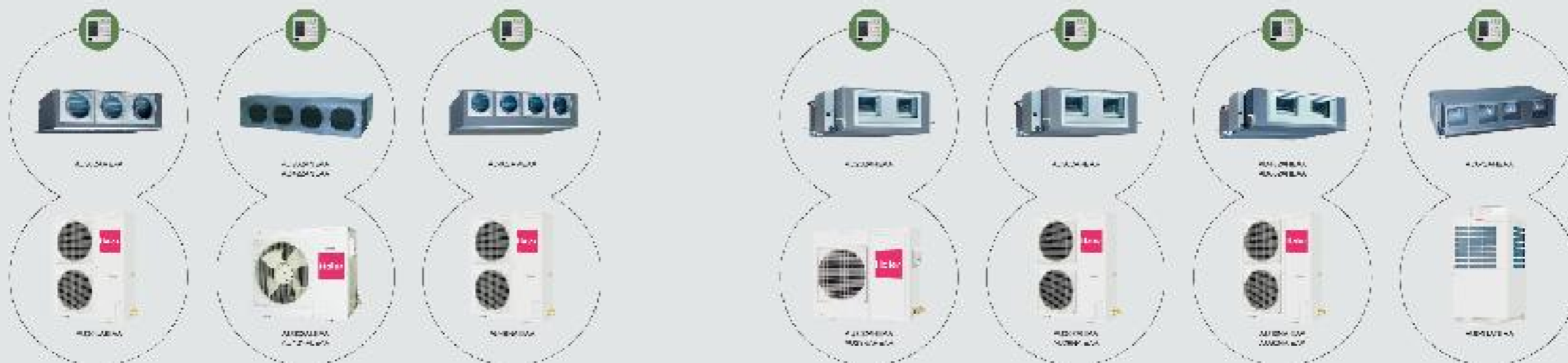
COMMERCIAL

Unitary smart - On/Off





Duct type - On/Off



COMMERCIAL

Unitary smart - On/Off



Duct type - On/Off

Model / outdoor unit		AH 900A/FAA	A1600A/FAA	A2000A/FAA	A2500A/FAA	A3600A/FAA	A4800A/FAA	A6000A/FAA	A7200A/FAA	A8400A/FAA	A9600A/FAA
Capacity (Cooling)	kW/ton	90.00	160.00	200.00	250.00	360.00	480.00	600.00	720.00	840.00	960.00
Power (Cooling)	W/kWh/ton	1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Capacity (Heating)	kW/ton	42.12	49.02	49.02	49.02	49.02	49.02	49.02	49.02	49.02	49.02
Power (Heating)	W/kWh/ton	2.1	2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Refrigerant	R410A	103300	178000	103300	178000	103300	178000	103300	178000	103300	178000
Weight (kW)	kg	102100/100	178000	178000	178000/100	178000/100	178000/100	178000/100	178000/100	178000/100	178000/100
Height (mm)	mm	4340	4340/440	4340/440	4340/440	4340/440	4340/440	4340/440	4340/440	4340/440	4340/440
Power (kW)	kVA	9000/2070	16000/2320	16000/2320	16000/2320	16000/2320	16000/2320	16000/2320	16000/2320	16000/2320	16000/2320
Weight (kW)	kg	114300/240	178000/240	178000/240	178000/240	178000/240	178000/240	178000/240	178000/240	178000/240	178000/240
Shipping weight	kg	42.14	49.02	49.02	49.02	49.02	49.02	49.02	49.02	49.02	49.02
Shipping volume	m ³	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Installation											
Refrigerant (kg)	kg	142	142	142	142	142	142	142	142	142	142
Shipping (kg)	kg	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
Height (mm)	mm	02	02	02	02	02	02	02	02	02	02
Minimum between (mm)	mm	05	05	05	05	05	05	05	05	05	05
Capacity (kW/ton) (Cooling)		14.2/14.2	14.2/14.2	14.2/14.2	14.2/14.2	14.2/14.2	14.2/14.2	14.2/14.2	14.2/14.2	14.2/14.2	14.2/14.2
Capacity (kW/ton) (Heating)		16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0
Model / outdoor unit		RUS9A-EAA	AUR9A-EAA	AUR20A-EAA	AUR25A-EAA	AUR36A-EAA	AUR48A-EAA	AUR60A-EAA	AUR72A-EAA	AUR84A-EAA	AUR96A-EAA
Capacity (Cooling)	kW/ton	240000	300000	240000	300000	160000	240000	160000	240000	240000	240000
Power (Cooling)	W/kWh/ton	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Capacity (Heating)	kW/ton	12	14	12	14	12	14	12	14	12	14
Power (Heating)	W/kWh/ton	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Refrigerant	R410A	140000	140000	140000	140000	140000	140000	140000	140000	140000	140000
Weight (kW)	kg	240	240	240	240	240	240	240	240	240	240
Height (mm)	mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Power (kW)	kVA	240000	300000	240000	300000	160000	240000	160000	240000	240000	240000
Weight (kW)	kg	280000	300000	300000	300000	300000	300000	300000	300000	300000	300000
Shipping weight	kg	16000	16000	16000	16000	16000	16000	16000	16000	16000	16000
Shipping volume (m ³) (Cooling)		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Shipping volume (m ³) (Heating)		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Capacity (kW/ton) (Cooling)		16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0
Capacity (kW/ton) (Heating)		16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0
Weight (kW)		16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Capacity (kW/ton) (Cooling)		16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0
Capacity (kW/ton) (Heating)		16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0	16.0/16.0
Weight (kW)		16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Shipping weight		16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Shipping volume		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Capacity (kW/ton) (Cooling) is based on standard conditions: indoor air (27°C/24°C, 50%RH) and outdoor air (35°C/25°C, 50%RH). Capacity (kW/ton) (Heating) is based on standard conditions: indoor air (20°C/15°C, 50%RH) and outdoor air (7°C/6°C, 50%RH). Power (kW/ton) is based on standard conditions: indoor air (27°C/24°C, 50%RH) and outdoor air (35°C/25°C, 50%RH). Weight (kW) is based on standard conditions: indoor air (27°C/24°C, 50%RH) and outdoor air (35°C/25°C, 50%RH).

COMMERCIAL

Unitary smart - On/Off



CABINET TYPE

Auxiliary electric heating function (Optional)

Special auxiliary heating technology helps rapid heating in cold winter.



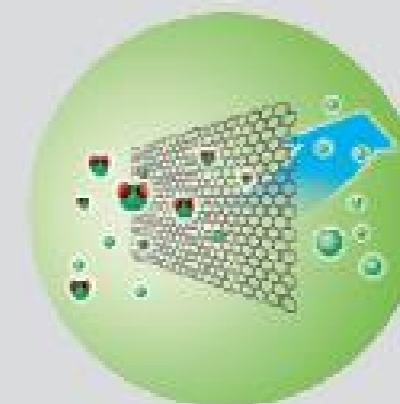
Child lock function

After you set this function, the working statuses can not be changed either by the remote control or the touch screen. Unless this setting is cancelled.



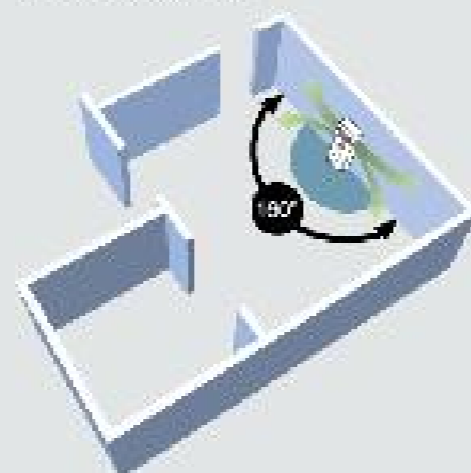
High efficiency air purify filter

Contribute to the user fresh and comfortable air.



Wide angle 160° air sending

Rounding 3-dimensional, 160 wide angle air sending, reach every corner of the room.



Power/Soft function

Special button on remote controller is used to set power full working or soft working.



15m long distance airflow supply

According to the requirement of office room and large parlor, 15m long distance and 180 degree wide-angle airflow supply.



COMMERCIAL

Unitary smart





Cabinet type - On/Off



Cabinet type - On/Off

Model / indoor unit		AM224RCAA	AM224RBA4
Capacity (Cooling)	26.4	42000	42000
	kW	12.1	12.0
Capacity (Heating)	26.4	47000	47000
	kW	14	14
Power supply	1xV/1φ	1x220V/50	1x220V/50
APF (Cooling)	4.5	4.5	4.5
Max. load (Cooling)	38.2A	38.2A	38.2A
Max. load (Heating)	40A	40.0A/40A	40.0A/40A
Shipping dimensions (WxDH)	mm	694x217x200	694x217x200
Net Weight (kg)	kg	22.0	22.0
Installation			
Refrigerant (kg)	mm	1.2	1.2
Refrigerant grade	mm	R410A	R410A
Max. pipe length	m	45	45
Max. drop between IP & O U	m	2.0	2.0
Control (Wired/Optional/Standard)			
		Wired/Optional	Wired/Optional
Model / outdoor unit		AM224RCAA	AM224RBA4
Capacity (Cooling)	26.4kW	42000	42000
Capacity (Heating)	26.4kW	47000	47000
Power supply	1xV/1φ	1x220V/50	1x220V/50
APF (Cooling)	4.5	4.5	4.5
Max. load (Cooling)	38.2A	38.2A	38.2A
Max. load (Heating)	40A	40.0A/40A	40.0A/40A
Shipping dimensions (WxDH)	mm	1152x476x200	1152x476x200
Shipping weight (kg)	kg	34.0	34.0
Working temp.			
Cooling (indoor)	°C	16-43	16-43
Heating (indoor)	°C	-10-15	-10-15
Heating (outdoor)	°C	-7-24	-7-24

1. All values are based on standard conditions. 2. All values are based on standard conditions. 3. All values are based on standard conditions. 4. All values are based on standard conditions. 5. All values are based on standard conditions. 6. All values are based on standard conditions. 7. All values are based on standard conditions. 8. All values are based on standard conditions. 9. All values are based on standard conditions. 10. All values are based on standard conditions.

COMMERCIAL

Unitary smart - On/Off





MIRV II

Capacity (kBtu/h)	7	9	12	16	18	24	28	30	36	48
KW	2.2	2.6	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0
Low static pressure duct										
Medium static pressure duct										
High static pressure duct										
Cassette type 4-way (700-700)										
Cassette type 4-way (850-850)										
Cassette type 1-way (850-850)										
Wall mounted										
Console										
Convertible										

Indoor units have 7 series 44 models, more choice for selection

* Actual technical data and model details should be checked with the product literature and/or the website.

MRV II - S

Model lineup

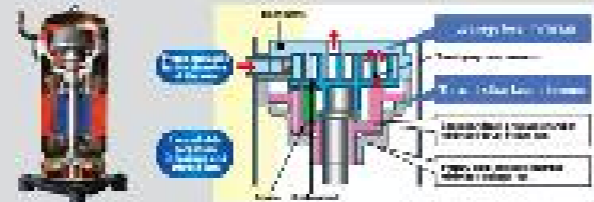


MRV II - S

R410A DC Inverter

Highly efficient DC scroll compressor (AU48/60)

The highly efficient scroll compressor is equipped with a "Flexible Mechanism" that allows movement in the axial direction of the frame supporting the circle scroll. This greatly reduces both leakage and friction loss, ensuring very high efficiency throughout the speed range.



DC fan motor (Optional)

DC fan motor speed can be adjusted from 0-1000 rpm. It can improve the unit efficiency at the same time. The unit can realize low ambient cooling operation.



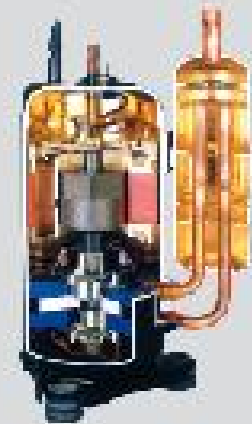
180 degree vector control technology

Haier using power resistance to detect the rotor position of compressor, results in the consistency of the compressor working current and Current sine waves, Improve power efficiency about 17%.



DC inverter twin rotary compressor (AU28)

- Realize high efficiency and compact designed compressor by joint wrap 5 rare metal magnet motor.
- Wide range inverter compressors would satisfy the customer's innovative requirement and design.



DC inverter technology

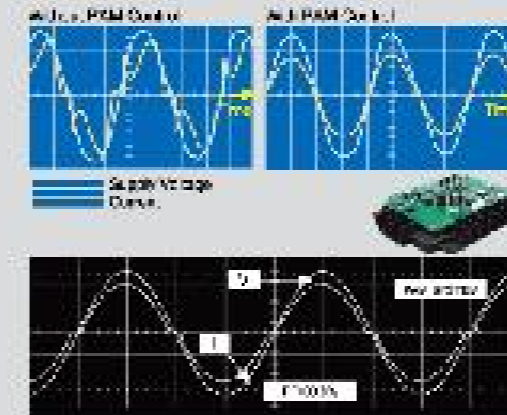
DC inverter motor

- High efficiency
- Low vibration, low noise
- High reliability



PAM inverter control

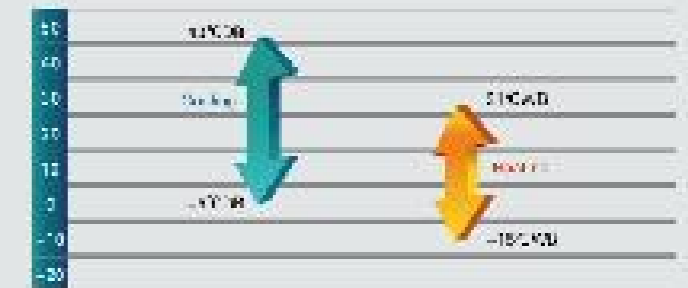
Adopt PFC adjustment module, greatly change the power network working condition, make the power factor improves to 99.8%, increase the system performance.



Operation range

MRV II - S series permits a system design considering a heating range operation under a low temperature condition from -15°C of previous model and a cooling range operation -5°C.

For the parameters under low temperature conditions, please see technical data sheets.



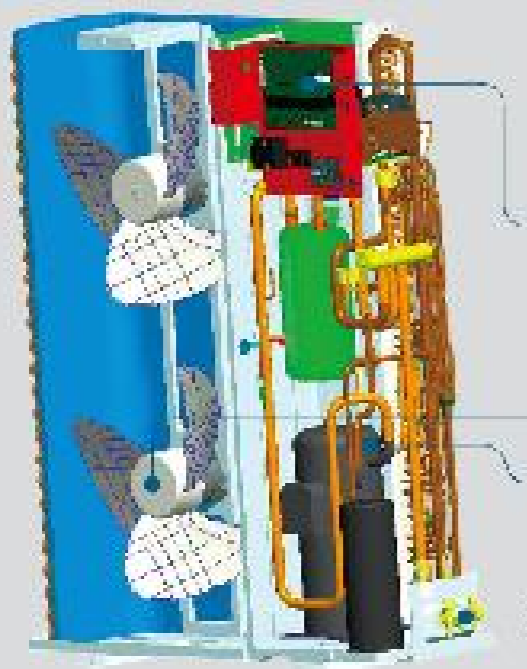
MRV II - S

Technology & Function



MRV II - S

Outdoor Unit



Summary

- Control the compressor running frequency by temp. Sensor, more precise and prompt than conventional control system.
- Protection: Pressure, temp., compressor fan motor, oil level, oil type (by etc.) Realize perfect performance
- Malfunction self diagnosis
- DC fan motor (AI48V/5V)
- DC Inverter compressor, high efficiency
- Single set Valve, easy to installation and save installation time



Model		MRV204H-1	MRV204H-2	MRV204H-3	MRV204H-4
Capacity					
Cooling	HP/RT	3.8	4.2	4.7	5.1
	kW	1	1.5	1.9	2.3
Heating	HP/RT	3.4	3.8	4.2	4.6
	kW	2.8	3.1	3.5	3.9
Electrical parameters					
Phase supply	Ph/Alt	220-230/50	110V-220V/50/60	200V-230V/50/60	200V-230V/50/60
Power input	Cooling	kW	1.5	2.1	2.7
	Heating	kW	2.15	3	3.7
EER/SCOP			1.4/1.4	1.6/1.6	1.7/1.7
Performance					
Air flow (L/s)	m³	1.44	1.6	1.7	1.8
Pressure loss (Pa)	dB(A)	55	59	63	67
Installation					
Free height (mm)	mm	940/1050	940/1050	940/1050	940/1050
Shipping dimension (mm)	mm	1140/1050/100	1140/1050/100	1140/1050/100	1140/1050/100
Weight (kg)	kg	11.5	12.5	13.5	14.5
Compressor type (Gas, Theory)		R410A	R410A	R410A	R410A
Refrigerant type		R410A	R410A	R410A	R410A
Discharge liquid pipe	mm	1.2	1.2	1.2	1.2
High pressure gas pipe	mm	12.7	12.7	12.7	12.7
Max pipe length	m	40	40	40	40
Max pipe diameter (mm)	mm	25	25	25	25
Working temp.					
Cooling	°C	-5~43	-5~43	-5~43	-5~43
Heating	°C	15~32	15~32	15~32	15~32

Unit capacity, power input and EER/SCOP are based on the standard test conditions. All the goods, labor and other items are not included in the price. The price is subject to change without notice. The price is subject to change without notice. The price is subject to change without notice.

MRV II - S

MRV II-S series



	7	9	12	16	18	24	28	30	38	48	72	96
Capacity (kBtu/h)												
KW	2.2	2.8	3.6	4.5	5.5	7.1	8.0	9.0	11.2	14.0	22.6	28.0
Low static pressure duct												
Medium static pressure duct												
High static pressure duct												
Cassette type 4-way (700x700)												
Cassette type 4-way (800x800)												
Wall mounted												
Console												
Convertible												

Indoor units have 7 series 46 models, more choice for selection

* Do not, however, use any model (except the outdoor unit) of the model line other than for the model of installation.

MRV II - C

Model lineup



MRV II - C

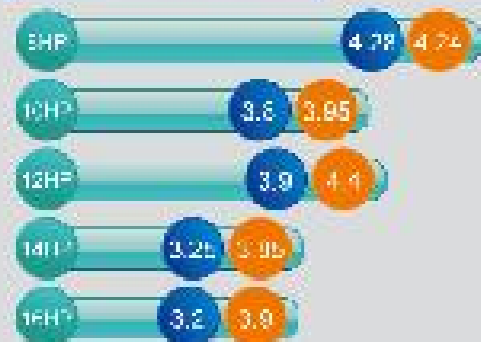
Efficiency Chapter

High efficiency & Energy saving

High COP is achieved by Heat exchanger technology, contributed to smooth and economical operation.

Use MRV II-C to realize high level of COP & EER in new way.

EER for cooling operation COP for heating operation



Pure inverter technology

DC inverter scroll compressor

- It does not require the induced current because the permanent magnet is used for the rotor. It means there is no current loss.
- Without electromagnetic noise and rotor wastage, the Reluctance DC motor of compressor is much more efficient than AC motor, and comfortable to use.
- The Reluctance DC motor of compressor utilize powerful neodymium magnets that are 10 times more powerful than conventional magnets.

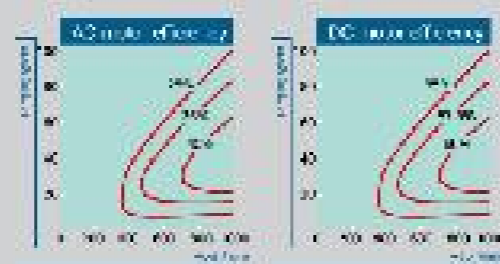


DC fan motor

- The speed of the wide range DC fan motor can be adjusted from 0 RPM to 1000 RPM.



- Compared to conventional AC motors, a DC fan motor offers greater operation efficiency, especially during low-speed rotation. The efficiency could be 30%.



Pure inverter technology

Single module, single compressor

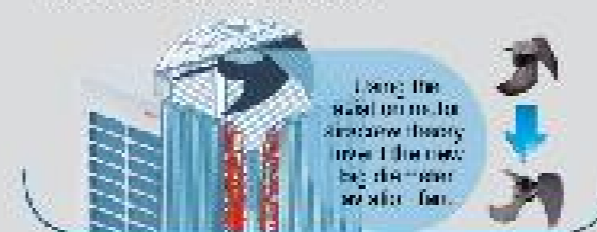
- 1. The 10HP, 12HP or 16HP line has only one big DC inverter compressor in itself, without fix frequency compressor.
- 2. The capacity of single compressor can be adjusted from 2KW to 45kW wide range inverter compressor satisfied the customer's various demands.



Efficient structure

New big diameter "aviation" fan

- This new fan could reduce air loss, air resistance and noise, increase heat exchange efficiency.



4-Way air return heat exchanger technology

The 4-way air return

The compressor and condenser are placed in separated compartments.

- This structure of outdoor unit can realize lower air resistance, higher heat efficiency and lower noise level.



Efficient parts

Sub-cooling heat exchanger

Sub-cooling heat exchanger utilizes the refrigerant to cool most of refrigerant in system, and makes it a further cooling, improves sub-cooling degree of refrigerant. It can avoid energy loss due to refrigerant flash evaporating when it goes through P.M.V.

- It will increase cooling capacity by 6%, reduce the refrigerant circulation amount, so that it can increase the efficiency of system.



Efficient exchanger

W model 20 inner Grooved tube, hydrophilic aluminum coil fin.

- It will increase efficiency of heat exchange by 6%.



Advanced control technology

100-Degree vector drive control technology

Using the power resistance to detect the position of rotor in compressor, so that the operation current of compressor is used to sine wave easily.

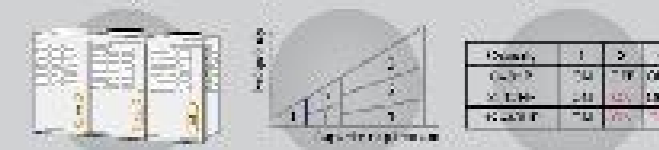
- With 180-degree vector drive control technology, the compressor could operate steadily and improve efficiency, so that the system can save energy further.



Maximize heat-exchanging technology

e.g. system of 48HP

- 100-140Hz double condensation area reduce input by 30%.
- 180-300Hz triple condensation area reduce input by 61%.
- Using the maximize heat-exchanging technology, the system which is composed of multi-module can make the best use of exchange area & flow, so that it will achieve the highest COP.



MRV II - C

Technology & Function



MRV II - C

Comfort Chapter

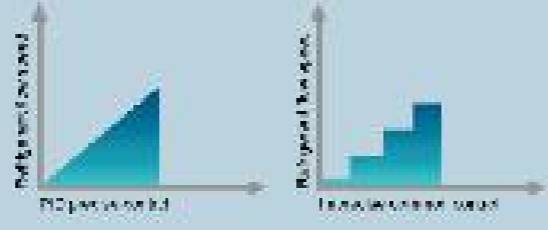
Precise control

PID control

- PID control adjusts the output of compressor and the open degree of PMV, balances the indoor refrigerant flow, realizes the linear output, creates a comfortable environment. The temperature could be control precisely within the range of 0.5°C.



P: Proportion Adjustment
I: Integral Adjustment
D: Differential Adjustment

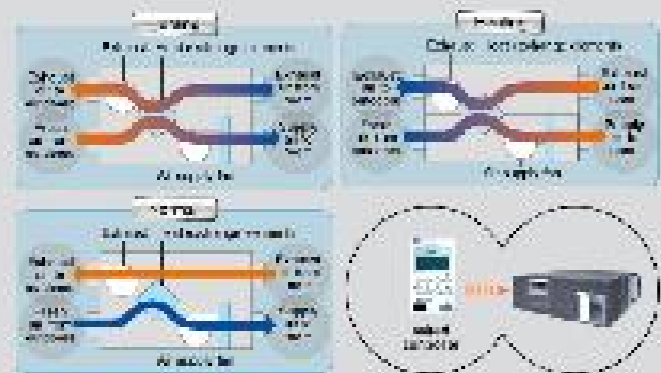


HRV technology

Heat reclaim ventilation

Operate principle

Adopting HRV unit, outside fresh air could be supplied to the indoor unit, at the same time, indoor dirty air exhausted to outdoor. This will keep indoor air comfortable, dehumidified and clean.



Non-halt defrosting

Single module, single compressor

The system will begin to defrost when the power of 4 way valve is cut off, and continue to heating after defrost over immediately.

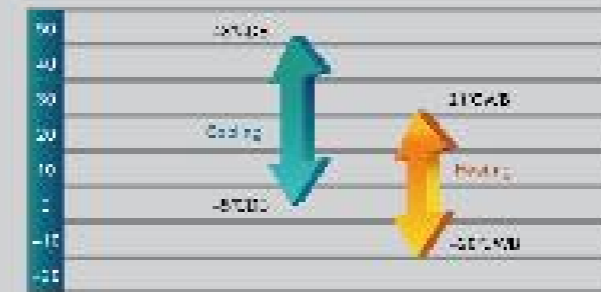
- When the non-inverter compressors startup and stop, it will disturb your use because of defrost time shorten.
- The absolute-inverter system could rise frequency directly and steadily, offer you more comfort.



Wider range operation

Wider range operation of outside temperature

- Cooling: from -5°C to 43°C
- Heating: from -20°C to 21°C

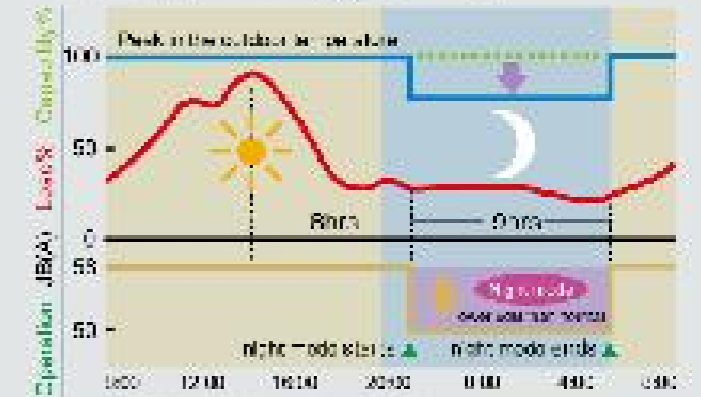


Night silent running

Optional silent running mode

Auto mode

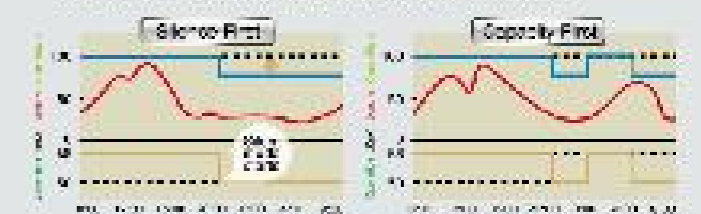
Setting mode on outdoor PCB, it will memorize the maximum outdoor temperature. Silent Running Mode will start at 8 hours after the temperature reach to the maximum in daytime, and remain 8 hours, then it will stop to normal mode.



Note: The mode will start and stop according to the actual outdoor temperature. The actual start and stop time will vary according to the actual outdoor temperature.

Setting mode

You can set the time to make the mode start and stop.



Note: The mode will start and stop according to the actual outdoor temperature. The actual start and stop time will vary according to the actual outdoor temperature.

MRV II - C

Technology & Function



MRV II - C

Control Chapter

Humanistic control

Preferential control

- With the humanistic design, you can set different preferential steps of some indoor units according to the user functions, so the user will ensure that the most indoor unit room gains adequate cooling and heating air in using the system.



Control the air
in the chamber
to provide
the best air

Room card

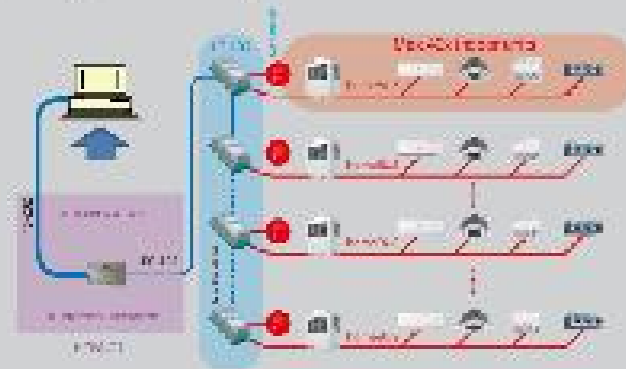
- The MRV II-C card can control the system with a room card in the remote place. It is widely adopted in the building, hotel or other commercial space. It can save energy effectively, be convenient for management.



BMS control

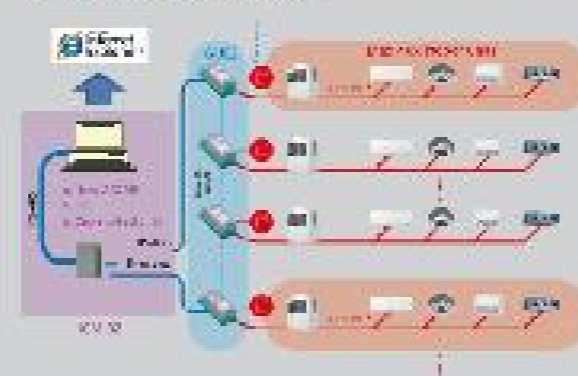
Simple Haier A/C management system

- RS-485 communication length is MAX 1000m.
- Total connected indoor units quantity is limited 400.
- Energy pulse meter is optional.



BACnet Haier A/C management system

- RS-485 communication length is MAX 1000m.
- Total connected indoor units quantity is limited 1024.
- PC is optional.
- Energy pulse meter is optional.



Control technology

Variable control mode

- Wired remote controller (Standard for wall-mounted and cassette type)



YR-F01

- Realize standard control function.

- Wired & Group controller (Standard for cassette, convertible and dual type)



YR-E14

- Max 16 indoor units (All the indoor units work in the same mode).
- Realize Master & Slave control using 2 control set.
- Set On/Off time.

- Single controller (Optional)



YR-F02

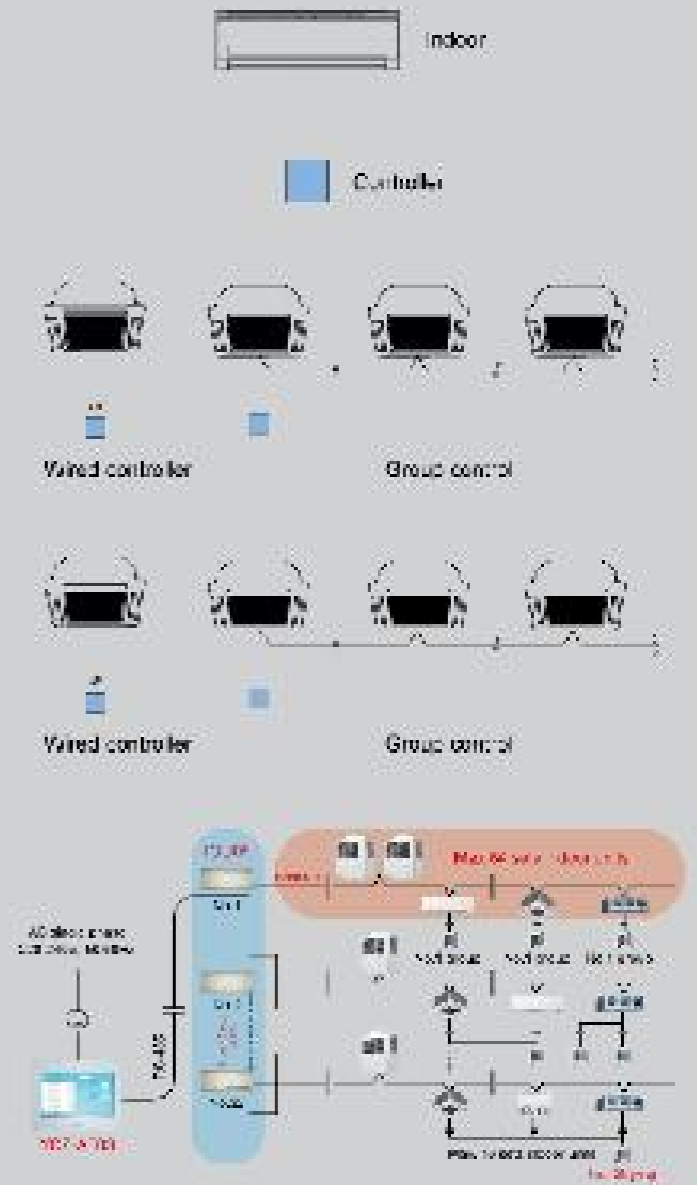
- Max 16 indoor units (All the indoor units work in the same mode).
- Set On/Off time.
- Mode selection: Cool/Heat/Fan.
- Temperature setting.
- Failure code display.

- Control controller (Optional)



YCZ-4000

- Max 16 indoor units, maximum wire length is 1000m.
- Max connectable indoor units group quantity is 128.
- Weekly time function included.



MRV II - C

Technology & Function

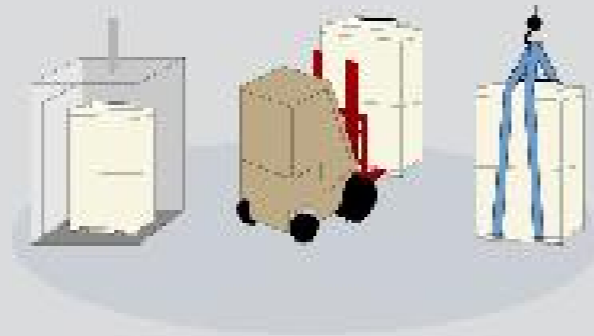


MRV II - C Installation Chapter

Easy transportation

Modularized design

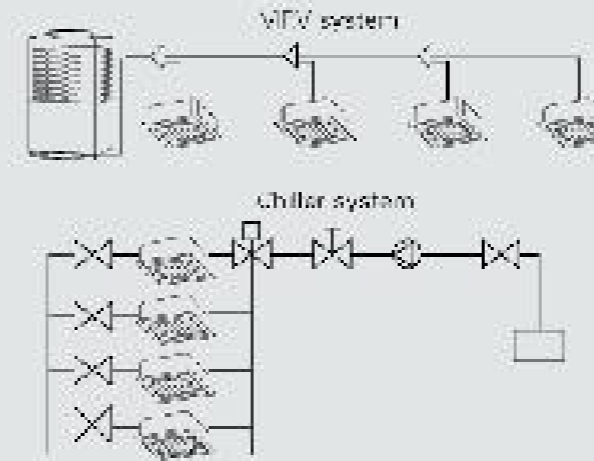
- The outdoor unit space only occupies 0.74m² and 1.04m². It can transport with elevators, save lots of transport cost and time.
- The outdoor units can installed in different floors, save the whole system test time.



Easy installation

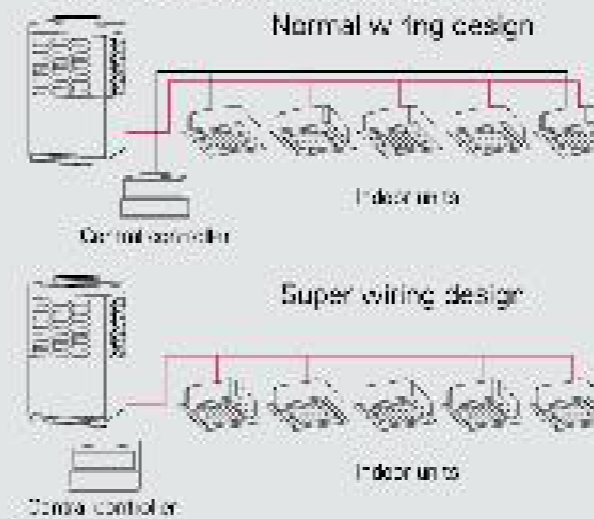
Concise system

- Compared with chiller system, without filter, stop valve, accessory etc. MRVll units refrigerant piping greatly reduce the system installation work and save a lot of protection & debug work.



Super wiring system

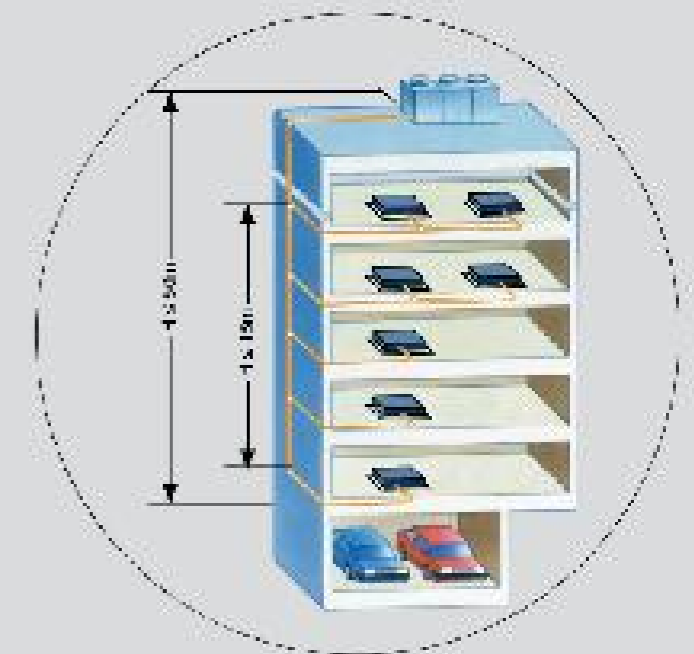
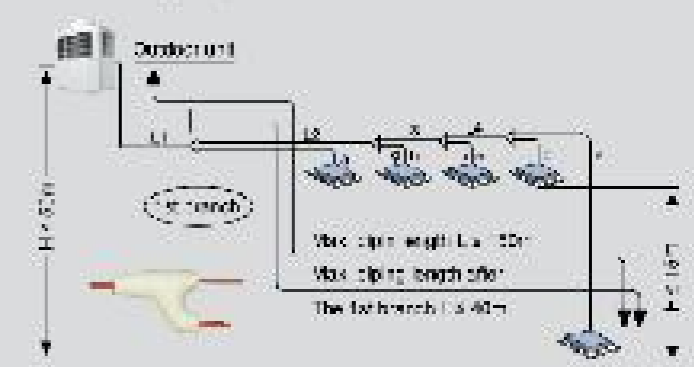
- A super wiring system is used to enable a shared use of the wiring between indoor & outdoor units and the central control wiring, with a simple wiring operation. The only work you need to do is to connect the central controller to the outdoor unit directly if central controller is adopted.



Flexible installation

Long piping length & Large drop

- Total 300M refrigerant piping length.
- Max.150M refrigerant piping length.
- Max. 50M height drop between indoor and outdoor units.
- Max. 15M height drop between indoor unit.



MRV II - C Technology & Function



MRV II - C

Reliability Chapter

Reliable operation

Duty cycling of outdoor units

The outdoor units make no difference between primary unit and secondary unit. For the system which consists of more than four unit, the operating times of units will be changed every 24 hours.

- Duty cycling of outdoor units could balance the operation hours and life of each outdoor unit in order to prolong the system's life.

Compressors rest by turn



Reliable compressor

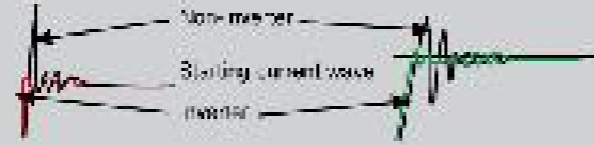
Advanced compressor

- With a smart technology it can avoid compressing-room being lack of oil when compressor running at low rotate speed, and discharging overmuch oil at high speed. It is reliable to use.

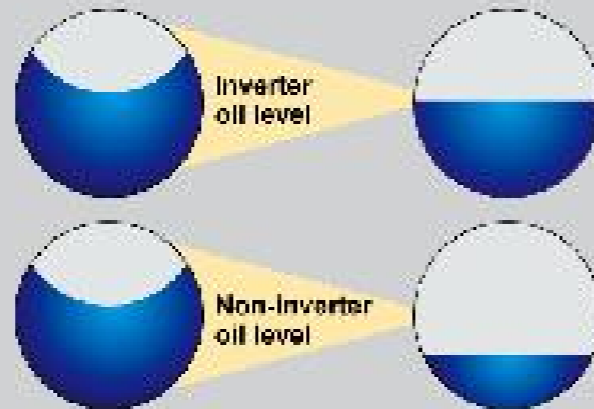


Absolute inverter advantage

- Reduce starting current



- Reduce air leak of tube
- Reduce discharged oil



Reliable operation

Backup operation

If one outdoor unit malfunctions in the system more than 15-IF appeared, the other units provide emergency operation until repair achieved.

- The backup operation could avoid the system closing down due to one unit in going wrong. It is quite reliable to use.



Efficient oil separator

The efficiency of new designed oil separator can be up to 98%.

- It can separate oil from refrigerant efficiently, avoid compressor being frayed owing to lack of oil.



Auto checking malfunction

- Failure codes displayed by LED in outdoor PCB or controller are so decided for us to find the fault place more quickly and can judge the failure content easily.

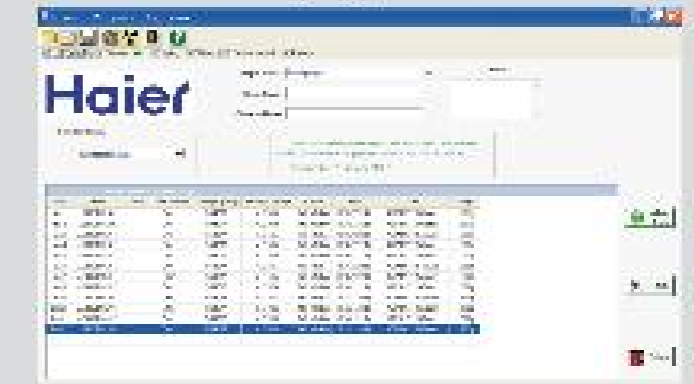


Support Chapter

Support chapter

MRV design express

- This software supply a solution of piping & wiring design, can help the designer select the right material list, load a wiring diagram and control wiring diagram also. Most important thing is to save lots of time during design procedure.



On-site service software

Features

- Save the installation and maintenance people time.
- More precise than normal checking method.



MRV II - C

Technology & Function



MRV II - C

Outdoor Unit



Model		MRV1000R3	MRV1500R3	MRV2000R3	MRV2500R3	MRV3000R3
Capacity						
Cooling	kW/hp	27	37.1	49.6	59.5	77.6
	kW	22.6	28	33.5	40	48
Heating	kW/hp	33.2	45.4	59.8	70.4	91.1
	kW	28	37.2	47.1	58	73
Electrical parameters						
Power supply	Ph/VA/Hz	3/380-400/50, 3/200/60				
Max. input - Cooling	kW	4.95	6.98	9.07	10.7	13.8
Max. input - Heating	kW	5.29	7.26	9.47	11.28	14.65
PF/SCOP		0.94/3.92	0.92/4.17	0.93/4.12	0.92/4.22	0.92/4.4
Performance						
Air flow (m³/h)		1000	1380	1800	2180	2800
Max. load (%)	400h	57	92	92	90	92
Installation						
External diameter (DN/DN2)	mm	662/750	750/850	850/950	950/1050	1050/1150
Shipping dimensions (WxDxH)	mm	640/730/400	730/830/400	830/930/400	930/1030/400	1030/1130/400
Net/Shipping weight	kg	23/23.5	25/25.5	27/27.5	29/29.5	30/30.5
Compressor type (Scroll/Torotor)		Sc/Sc	Sc/Sc	Sc/Sc	Sc/Sc	Sc/Sc
Refrigerant type		R410a	R410a	R410a	R410a	R410a
Flare/gas liquid pipe	mm	1/2"	3/8"	1/2"	5/8"	3/4"
Flare/gas liquid pipe	mm	12.6	22.2	25.4	25.4	28.2
Max pipe length	m	10	10	10	10	10
Max. elevation (Max/min with 45°)	m	30	30	30	30	30
IPX5 - Outdoor unit only	IP	IP	IP	IP	IP	IP
Working range						
Cooling	°C	5-45	5-45	5-45	5-45	5-45
Heating	°C	-20-2	-20-2	-20-2	-20-2	-20-2

Working conditions are based on standard conditions. Actual performance may vary due to installation and operating conditions. Capacity is based on standard conditions. Actual capacity may vary due to installation and operating conditions. All values are based on standard conditions. Actual values may vary due to installation and operating conditions.

MRV II - C

MRV II - C series





22.6/29 kW



33.3/40.46 kW



60.6/66 kW



81.5/89.73 kW



75.6/80.93 kW



65/70 kW



105.6/113.118 kW



122.5/133.135 kW

Model	22.6/29kW	33.3/40.46kW	60.6/66kW	81.5/89.73kW	75.6/80.93kW	65/70kW	105.6/113.118kW	122.5/133.135kW																																													
Capacity																																																					
Cooling kW	22.6	33.3	60.6	81.5	75.6	65	105.6	122.5																																													
Heating kW	29	40.46	66	89.73	80.93	70	113.118	133.135																																													
Power supply	<table border="1"> <thead> <tr> <th>Model</th> <th>22.6/29kW</th> <th>33.3/40.46kW</th> <th>60.6/66kW</th> <th>81.5/89.73kW</th> <th>75.6/80.93kW</th> <th>65/70kW</th> <th>105.6/113.118kW</th> <th>122.5/133.135kW</th> </tr> </thead> <tbody> <tr> <td>Rated Discharge</td> <td>3.7 L</td> <td>2.2 L</td> <td>11.2 L</td> <td>13.2 L</td> <td>13.2 L</td> <td>11.2 L</td> <td>22.2 L</td> <td>22.2 L</td> </tr> <tr> <td>Rated Discharge (Cooling)</td> <td>3.2 L</td> <td>1.8 L</td> <td>9.8 L</td> <td>11.8 L</td> <td>11.8 L</td> <td>9.8 L</td> <td>19.8 L</td> <td>19.8 L</td> </tr> <tr> <td>Rated Discharge (Heating)</td> <td>4.2 L</td> <td>2.6 L</td> <td>12.6 L</td> <td>14.6 L</td> <td>14.6 L</td> <td>12.6 L</td> <td>24.6 L</td> <td>24.6 L</td> </tr> <tr> <td>Rated Discharge (Total)</td> <td>3.7 L</td> <td>2.2 L</td> <td>11.2 L</td> <td>13.2 L</td> <td>13.2 L</td> <td>11.2 L</td> <td>22.2 L</td> <td>22.2 L</td> </tr> </tbody> </table>								Model	22.6/29kW	33.3/40.46kW	60.6/66kW	81.5/89.73kW	75.6/80.93kW	65/70kW	105.6/113.118kW	122.5/133.135kW	Rated Discharge	3.7 L	2.2 L	11.2 L	13.2 L	13.2 L	11.2 L	22.2 L	22.2 L	Rated Discharge (Cooling)	3.2 L	1.8 L	9.8 L	11.8 L	11.8 L	9.8 L	19.8 L	19.8 L	Rated Discharge (Heating)	4.2 L	2.6 L	12.6 L	14.6 L	14.6 L	12.6 L	24.6 L	24.6 L	Rated Discharge (Total)	3.7 L	2.2 L	11.2 L	13.2 L	13.2 L	11.2 L	22.2 L	22.2 L
Model	22.6/29kW	33.3/40.46kW	60.6/66kW	81.5/89.73kW	75.6/80.93kW	65/70kW	105.6/113.118kW	122.5/133.135kW																																													
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Rated Discharge (Total)	3.7 L	2.2 L	11.2 L	13.2 L	13.2 L	11.2 L	22.2 L	22.2 L																																													
Performance																																																					
Air flow (l/s)	100	100	100	100	100	100	100	100																																													
Pressure (Pa)	7	7	7	7	7	7	7	7																																													
Installation																																																					
External connection (mm)	33.8x37.8	33.8x37.8	33.8x37.8	33.8x37.8	33.8x37.8	33.8x37.8	33.8x37.8	33.8x37.8																																													
Shipping dimensions (mm)	1000x600	1000x600	1000x600	1000x600	1000x600	1000x600	1000x600	1000x600																																													
Weight (kg)	27	33	77	73	69	59	109	129																																													
Compressor (R410A)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5																																													
Refrigerant (kg)	9.45	9.45	9.45	9.45	9.45	9.45	9.45	9.45																																													
Refrigerant charge (kg)	9	9	9	9	9	9	9	9																																													
Refrigerant charge (Pa)	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2																																													

Capacity based on standard conditions: indoor air 27°C, outdoor air 7°C, cooling coil 7°C. Capacity based on standard conditions: indoor air 20°C, outdoor air 7°C. Capacity based on standard conditions: indoor air 20°C, outdoor air 7°C.

MRV II - C

MRV II - C series



MRV II - C series

MRV II - C series

4-WAY CASSETTE TYPE



- AB122MCE-RA
- AB122MCE-CA
- AB162MCE-RA
- PB-700IE

New particular design

The cassette external dimension is 570mmx570mmx230mm for easy installation. It is universal and harmony with standard ceiling 900mmx900mm. There is no breakage for ceiling during installation.

Quiet operation

Airflow pass through the outlet smoothly and fluently owing to the streamline air outlet. Bring you a much more quiet space. The fan blade adopts the design of irregular helix. The indoor unit can run at the lowest sound level.

Built-in high head drain pump

Built-in Drain Pump drains water automatically. A standard drain head height of up to 600mm is possible, creating the ideal solution for perfect water drainage.

Fresh air inlet

Free-set fresh air inlet, can introduce the outside fresh air into the room, greatly improve the indoor air quality (Optional).



- AB162MCE-RA
- AB242MCE-RA
- AB322MCE-RA
- PB-050IE

New particular panel design

From small to big size use the same appearance panel, harmony with the environment and with consistency appearance.

Compact design

Adopt the compact design the thick of the main body is only 230mm. So even the inner space of the ceiling is narrow the unit can also be installed easily.

Advanced structure facilitating cleaning and installation

The suction grille can be rotated by 90 degree and its installation direction can be selected randomly.



- AB082MCE-RA
- AB082MCE-CA
- AB102MCE-RA
- PB-050LB

Compact design

Adopt the compact design the thick of the main body is only 230mm. So even the inner space of the ceiling is narrow the unit can also be installed easily.

Advanced structure facilitating cleaning and installation

The suction grille can be rotated by 90 degree and its installation direction can be selected randomly.

Fresh air inlet

Free-set fresh air inlet, can introduce the outside fresh air into the room, greatly improve the indoor air quality (Optional).

New particular panel design

From small to big size use the same appearance panel, harmony with the environment and with consistency appearance.



MRV II

MRV II series





Model		AD1250CER3	AD1500CER3	AD1800CER3	AD2100CER3	AD2500CER3	AD3000CER3	AD3500CER3	AD4000CER3	AD4500CER3	
Capacity											
Capacity	Unit	9.1	12.2	15.3	18.4	21.5	24.6	27.7	30.8	33.9	
	m ³	12.4	16.6	20.7	24.9	29.0	33.2	37.3	41.5	45.6	
Room	Unit	13.0	17.3	21.6	25.9	30.2	34.5	38.8	43.1	47.4	
	m ³	17.3	22.7	28.1	33.5	38.9	44.3	49.7	55.1	60.5	
Electrical information											
Power supply	170V/1	115V/120V/1/200/220V/1					115V/120V/1/200/220V/1				
Performance											
Capacity (ASHRAE)	Unit	100	130	160	190	220	250	280	310	340	
Max. load (kW)	20%	140000	180000	220000	260000	300000	340000	380000	420000	460000	
Level Data											
External (mm) (width)	mm	1360/1600	1610/1850	1860/2100	2110/2350	2360/2600	2610/2850	2860/3100	3110/3350	3360/3600	
Shipping container (Depth)	mm	1360/1600	1610/1850	1860/2100	2110/2350	2360/2600	2610/2850	2860/3100	3110/3350	3360/3600	
Net shipping weight	kg	900	1200	1500	1800	2100	2400	2700	3000	3300	
Refrigerant (kg)	kg	12.5	16.6	20.8	24.9	29.0	33.2	37.3	41.5	45.6	
Full gross weight	kg	1170	1570	1970	2370	2770	3170	3570	3970	4370	
Panel											
External (mm)	mm	1360/1600	1610/1850	1860/2100	2110/2350	2360/2600	2610/2850	2860/3100	3110/3350	3360/3600	
Shipping container	mm	1360/1600	1610/1850	1860/2100	2110/2350	2360/2600	2610/2850	2860/3100	3110/3350	3360/3600	
Net weight (shipping weight)	kg	900	1200	1500	1800	2100	2400	2700	3000	3300	
Compressor (R410A) (incl. 30m cable)											
	VR	47100	57100	67100	77100	87100	97100	107100	117100	127100	
(R410A) (incl. 30m cable)											
	VR	47100	57100	67100	77100	87100	97100	107100	117100	127100	

Unit capacity, number of compressors, full load power consumption, and shipping container information are based on the standard configuration. For more information, please refer to the product manual. © 2012 Daikin Industries, Ltd. All rights reserved. DAIKIN AIR CONDITIONERS

MRV II

MRV II series



CONVERTIBLE TYPE



- AC092MCERA
- AC122MCERA
- AC162MCERA
- AC182MCERA
- AC242MCERA

Ultra-thin unit body, only thick 189mm (09-24model)

The convertible indoor unit adopts a double drain pan design. The unit body is very thin, only 189mm. It is beautiful, elegant and space saving.

Wide-angle airflow

11° wide-angle louvers and 21° wide-angle blades design to make a precise control of the airflow. It averagely distributes the comfortable air to every corner of the room.

Quiet running

Thanks to the low sound level centrifugal fan, the unit always works quietly so as to give more comfort to life.



- AC362MFERA
- AC482MFERA

Model		AC092MCERA	AC122MCERA	AC162MCERA	AC182MCERA	AC242MCERA	AC362MFERA	AC482MFERA
Capacity								
Cooling	RT (kW)	9	12	16	18	24	36	48
	HP	2.6	3.6	4.8	5.4	7.2	10.5	14.1
Heating	RT (kW)	10	13	17	19	25	37	49
	HP	3.0	4	5	5.6	7.5	11.2	14.4
Electrical parameters								
Power supply	Phase	1/220-240V/50/60/50/60						
Performance								
A/Cycle (EER)	HP/W	3.6	3.9	3.3	3.3	3.6	3.4	3.4
Capacity (COP)	HP/W	4.0/3.64	4.0/3.64	4.0/3.64	4.0/3.64	4.0/3.64	4.0/3.64	4.0/3.64
Installation								
External dimensions (WxD) (mm)	mm	333x667x114	333x667x114	333x667x114	333x667x114	333x667x114	333x667x114	333x667x114
Weight (indoor unit) (kg)	kg	10.2/10.3/10	10.2/10.3/10	10.2/10.3/10	10.2/10.3/10	10.2/10.3/10	10.2/10.3/10	10.2/10.3/10
Net Weight (kg)	kg	7.5/8.6/8	7.5/8.6/8	7.5/8.6/8	7.5/8.6/8	7.5/8.6/8	7.5/8.6/8	7.5/8.6/8
Height (mm)	mm	112	112	112	112	112	112	112
Height (mm) (optional)	mm	112	112	112	112	112	112	112
Distance (W/d) (optional) (mm)	mm	112/112/112	112/112/112	112/112/112	112/112/112	112/112/112	112/112/112	112/112/112
Distance (W/d) (optional) (mm)	mm	112/112/112	112/112/112	112/112/112	112/112/112	112/112/112	112/112/112	112/112/112

1. Cooling capacity is based on standard condition and given according to standard condition.
 2. Heating capacity is based on standard condition and given according to standard condition.
 3. Capacity is based on standard condition and given according to standard condition.
 4. Capacity is based on standard condition and given according to standard condition.

MRV II

MRV II series



LOW STATIC PRESSURE DUCT TYPE



- AD072MLERA
- AD092MLERA
- AD122MLERA

220 ultra thin design and space saving

Ultra thin design make all the models have only 220mm height. It is more convenient for installation and maintenance.

Elegant outlook fit with your style

The indoor unit placed in the ceiling only the inlet and outlet grill can be seen. The most suited grill can be used to fit with the indoor decoration.

Optional air return design

There are two air return design for the different requirement. Let the decoration more optional.

Optional static pressure

Two choice of optional static pressure 0 Pa and 20 Pa for the low static pressure duct make user more convenient.

High efficiency filter

The unit adopts G3 grade filter which can efficiently filter the dirt etc., and improve the room air quality. At the same time, the filter can be pulled out from downs do, convenient for maintenance and cleaning.



- AD152MLERA
- AD182MLERA
- AD242MLERA

Model		AD072MLERA	AD092MLERA	AD122MLERA	AD152MLERA	AD182MLERA	AD242MLERA
Capacity							
Cooling	kW/h	7.6	9.6	12.7	17.7	22.7	31.7
	HP	2.1	2.6	3.5	4.9	6.3	8.7
Heating	kW/h	8.6	11.6	15.7	22.7	29.7	41.7
	HP	2.5	3.2	4.4	6.3	8.2	11.4
Electrical parameter							
Power supply	Phase/Hz	1/220-240V/50/60Hz					
Performance							
Air flow (L/s)	m³/h	400	480	640	880	1120	1520
Max. load (kW)	kVA	16.5/21.4	19.5/25.4	26.0/33.8	36.0/46.8	45.0/58.8	61.0/79.4
Installation							
External dimension (WxD) (mm)	mm	1140x220		1140x220		1140x220	
Shipping dimension (WxD) (mm)	mm	1140x220		1140x220		1140x220	
Net/Shipping weight	kg	16.2		19.8		25.7	
Refrigerant equipment	mm	G3/8		G3/8		G3/8	
Refrigerant gas code	mm	R410A		R410A		R410A	
Static pressure	Pa	0		0		0	
Control Method (indoor / Outdoor)		R / P42R		R / P42R		R / P42R	
Indoor/Outdoor Size (mm)		Y6-16100		Y6-16100		Y6-16100	

1. Cooling capacity is based on indoor air temperature of 27°C, outdoor air temperature of 35°C, wet bulb temperature of 24°C, indoor air velocity of 0.3m/s, outdoor air velocity of 2.5m/s, indoor relative humidity of 50%, outdoor relative humidity of 60%.
 2. Heating capacity is based on indoor air temperature of 20°C, outdoor air temperature of 7°C, indoor air velocity of 0.3m/s, outdoor air velocity of 2.5m/s, indoor relative humidity of 30%, outdoor relative humidity of 75%.

MRV II

MRV II series



MEDIUM STATIC PRESSURE DUCT TYPE



- ▶ AD110MVE1RA
- ▶ AD210MVE1RA
- ▶ AD350MVE1RA

Flexible static pressure selection, meet the customers' personal request

The unit has standard static pressure (0-50Pa) & middle static pressure (50-80Pa) two choices, flexible air supply mode, make the installation more free and meet different personal requests.

Hidden installation

Air conditioner be put into the ceiling, only outlet grille be visible, comfort atmosphere & personal space area.

Multi room-sharing

The middle static pressure duct type can connected to multi rooms by duct, and can design the duct according to different house style, several air conditioner can suit more rooms.

Free setting of air discharge duct

The number of the air flow outlet and its installation position can be freely selected according to the environment of the room, sufficiently considering the load of the room and the uniform temperature of the room to realize more perfect comfort.

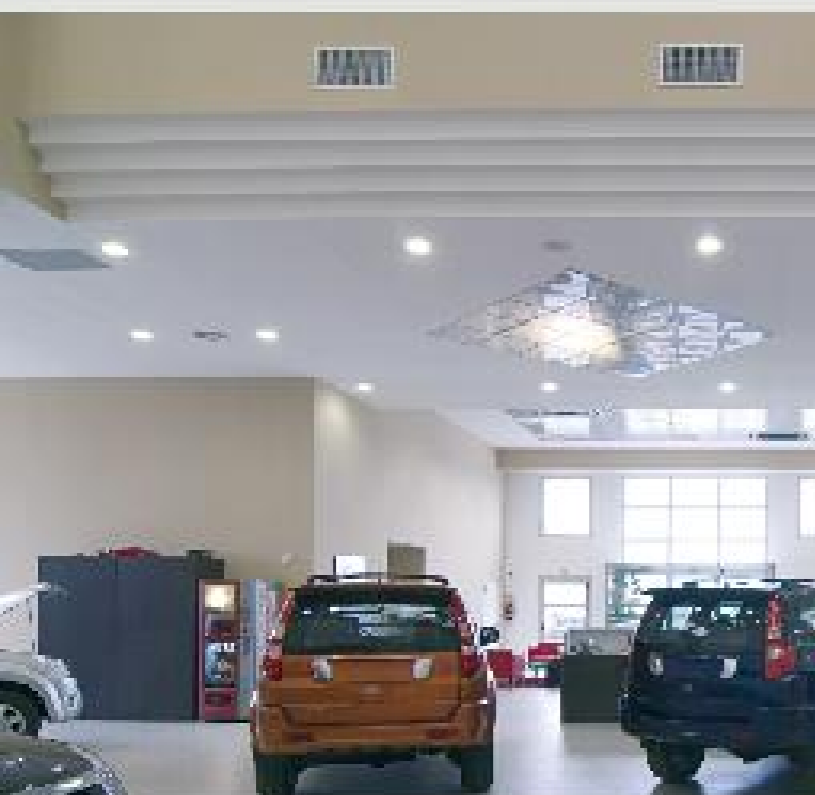
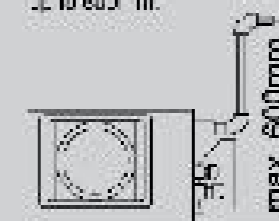
High efficiency filter

The unit adopts G3 grade filter which can efficiently filter the dust and improve the room air quality. At the same time, the filter can be pulled out from down side, convenient for maintenance and cleaning.



Special up-drainage water pump

The unit has a water pump whose the max. drainage height can be up to 600mm.



- ▶ AD300MVE1RA
- ▶ AD360MVE1RA
- ▶ AD450MVE1RA

Model		AD110MVE1RA	AD210MVE1RA	AD350MVE1RA	AD360MVE1RA	AD450MVE1RA
Capacity						
Cooling	kW	1.1	2.2	3.5	4.5	6.5
	HP	3.0	6.1	9.6	12.4	17.8
Heating	kW	1.1	2.2	3.5	4.5	6.5
	HP	3.0	6.1	9.6	12.4	17.8
Electrical parameter						
Power supply	Phase	1/2/3/220V				
Performance						
Air flow (AVL)	m³/h	1200	1200	1200	1500	2100
Max. load (MAX)	kVA	4.5/2.5	4.5/2.5	4.5/2.5	4.5/2.5	4.5/2.5
Installation						
External diameter (DOUT)	mm	100/100/100	100/100/100	100/100/100	100/100/100	100/100/100
Supply pipe dia. (DINLET)	mm	100/100/100	100/100/100	100/100/100	100/100/100	100/100/100
Net/Shipping weight	kg	9/11	9/11	9/11	9/11	9/11
Net/Shipping height	mm	100	100	100	100	100
Net/Shipping depth	mm	100	100	100	100	100
Net/Shipping width	mm	100	100	100	100	100
Compressor (Model/Number)		R-744Z	R-744Z	R-744Z	R-744Z	R-744Z
Refrigerant (Model/Number)		R410A	R410A	R410A	R410A	R410A

1. Cooling capacity is based on indoor temperature of 27°C, outdoor temperature of 35°C, humidity ratio of 18g/kg, and air velocity of 0.25m/s. Heating capacity is based on indoor temperature of 20°C, outdoor temperature of 7°C, humidity ratio of 6g/kg, and air velocity of 0.25m/s. 2. Max. load is based on indoor temperature of 27°C, outdoor temperature of 35°C, humidity ratio of 18g/kg, and air velocity of 0.25m/s. 3. Net/Shipping weight is based on standard configuration. 4. Net/Shipping height is based on standard configuration. 5. Net/Shipping depth is based on standard configuration. 6. Net/Shipping width is based on standard configuration.

MRV II

MRV II series



WALL-MOUNTED TYPE



- AS072MGERA
- AS092MGERA
- AS127MGERA
- AS162MGERA
- AS182MGLKA
- AS242MGERA

EEV inside put

The EEV box inside put easy for installation

High-quality DC fan motor, reduce the indoor unit noise greatly

New fation design

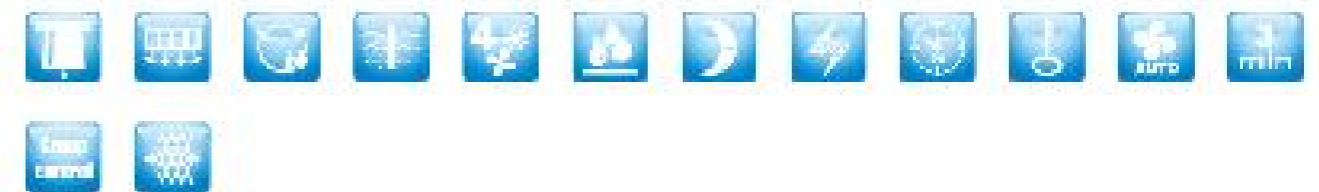


Model		AS072MGERA	AS092MGERA	AS127MGERA	AS162MGERA	AS182MGERA	AS242MGERA
Capacity							
Cooling	HP/RT	1.8	2.4	3.2	4.5	6.0	8.0
	kW	0.6	0.8	1.1	1.5	2.0	2.7
Heating	HP/kJ	6.0	8.0	10.0	14.0	18.0	24.0
	kW	2.0	2.8	3.5	4.8	6.3	8.4
Electrical parameters							
Power supply	Phase/b	220V-230V/1, 220V-230V					
Performance							
APL (kW/HP)	HP/kW	3.0	3.0	3.0	3.0	3.0	3.0
Noise level (LWA)	dB(A)	41-40dB	41-40dB	41-40dB	41-40dB	48-48dB	48-48dB
Installation							
External dimensions (WxD)	mm	247x247x84	247x247x84	247x247x84	247x247x84	300x247x84	300x247x84
Standard dimensions (WxD)	mm	247x247x84	247x247x84	247x247x84	247x247x84	300x247x84	300x247x84
Refrigerant weight	kg	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6
Refrigerant type	mm	R32	R32	R32	R32	R32	R32
Refrigerant pipe size	mm	12.7	12.7	12.7	12.7	12.7	12.7
Capacity (Mixed-option, 5 meters)	HP/kW	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6
Refrigerant pipe length (m)	mm	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6	1.8/0.6

1. The actual capacity and performance of the air conditioner will vary with the actual installation conditions. 2. The actual capacity and performance of the air conditioner will vary with the actual installation conditions. 3. The actual capacity and performance of the air conditioner will vary with the actual installation conditions. 4. The actual capacity and performance of the air conditioner will vary with the actual installation conditions.

MRV II

MRV II series



CONSOLE TYPE



- AF072MAERA
- AF082MAERA
- AF122MAERA
- AF182MAERA

High efficiency filter

The unit's high efficiency filter can efficiently filter the dust and improve the room air quality.

Quiet running

Thanks to the low sound level centrifugal fan, the unit always works quietly so as to give more comfort to life.

Compact unit body and space saving

The unit body is very thin and harmonious with room. It is beautiful, elegant and space saving.

Fast temperature adjustment

Air supplying from top or the bottom of the unit body for fast temperature adjustment.



Model		AF072MAERA	AF082MAERA	AF122MAERA	AF182MAERA
Cooling	HRt/h	4.6	5.7	7.6	11
	kw	1.3	1.7	2.3	3.3
Heating	HRt/h	8.6	10.6	14.1	21.4
	kw	2.5	3.2	4	6
Power supply	Phase/b	1/220V/50Hz, 1/220V/60Hz			
Drainage (mm)	mm	40	40	50	50
Refrigerant (L/RT)	kg/kg	4.4/0.24	5.4/0.3	6.8/0.38	10.4/0.52
External dimensions (WxHxD)	mm	560x240	620x240	840x240	1120x240
Standard dimensions (WxHxD)	mm	540x220	600x220	820x220	1100x220
Net Weight	kg	10.5	12.8	16.2	23.8
Net Weight (package)	kg	11.5	13.8	17.2	24.8
Refrigerant package	kg	10.1	12.4	15.8	23.4
Capacity (Mixed options, 5 meters)		1~4RT	1~4RT	1~4RT	1~4RT

1. The actual capacity is related to the actual installation conditions. 2. The actual capacity is related to the actual installation conditions. 3. The actual capacity is related to the actual installation conditions. 4. The actual capacity is related to the actual installation conditions.

MRV II

MRV II series





Auto operation

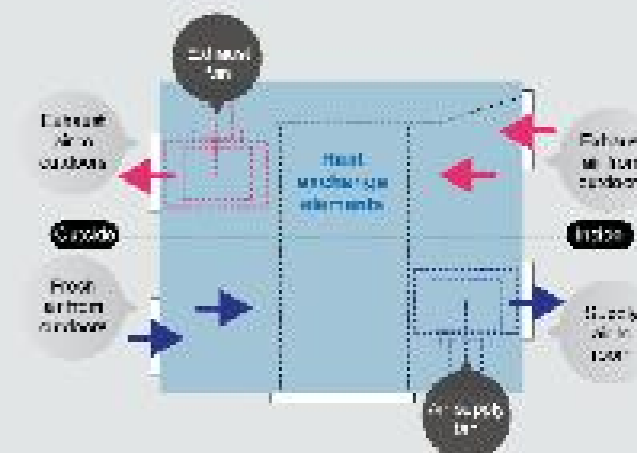
Three working modes: auto mode, heat exchange mode, collateral mode.

Four fan speeds: high wind, low wind, high exchange wind, low exchange wind.

24-hour on/off timer.

HRV technology (Heat reclaim ventilation)

Adopting HRV unit, outside fresh air could be supplied to the indoor unit, at the same time, indoor dirty air exhausted to outdoor. This will keep indoor air comfortable, dehumidified and clean.









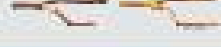

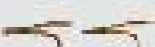
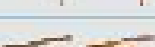
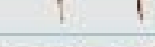
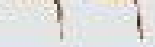



Model		HRV0165AH	HRV020AH	HRV025AH	HRV030AH
Basic parameter					
Power supply	Power	100V-250V/50	100V-250V/50	100V-250V/50	100V-250V/50
Flow rate (m³/h)	Flow	160	200	250	300
Exhaust level	Level	A	A	A	A
Performance					
Control precision	Control	±1%	±1%	±1%	±1%
Heat loss (W/M³)	Heat loss	1.2/100	1.2/100	1.2/100	1.2/100
Static pressure	Static pressure	2.2	2.2	2.2	2.2
Installation					
External dimensions (mm)	External dimensions	850*450*200	850*450*200	1100*450*200	1100*450*200
Shipping dimensions (mm)	Shipping dimensions	910*510*210	910*510*210	1160*510*210	1160*510*210
Net/Shipping weight	Weight	2.5/3.0	2.5/3.0	2.5/3.0	2.5/3.0

HRV being a product of the high-level technology and the advanced technology of the HRV system. All the data are for reference only. The actual data may vary due to the different installation and the different environment. The actual data should be confirmed by the HRV system.

MRV II

MRV II series



Photo	Name	Model	Function	For what units?	Optional
	Infrared controller	YR-HT1	Unit operating	Wall mounted, Console	Cassette, Convertible, Duct
	Infrared controller receiver	RE-02	Realize infrared control for duct type	Duct	
	Wired controller	YR-E14	Unit operating and group control (Max 5 indoor units)	Duct 4-way cassette, Convertible	Wall mounted
	Simple controller	YR-F02	Unit operating and group control (Max 5 indoor units)	All (Except for console type)	
	Central controller	YCZ-A003	One-OT function&Multi-function cable step by (Max 120 groups)	MRV II-C MRV II-S	
	Connecting board	IG005	Connecting YCZ-A003 and outdoor units	MRV II-C MRV II-S	
	Gather pipe	-IG9-20A	Refrigerant gathering	2 mode s	
	Gather pipe	-IG9-30A	Refrigerant gathering	3 mode s	
	Manifold pipe	FOG-B335A	Refrigerant distribution	Total indoor units capacity less than 33500W	
	Manifold pipe	FOG-B505A	Refrigerant distribution	Total indoor units capacity less than 50500W, but equal or bigger than 33500W	
	Manifold pipe	FOG-B733A	Refrigerant distribution	Total indoor units capacity less than 73300W, but equal or bigger than 50500W	
	Manifold pipe	FOG-B1353A	Refrigerant distribution	Total indoor units capacity bigger than 73300W	
	Inverter protection device	IC110F	Protects against and data storage	MRV II-C MRV II-S	
	RS485&232 converter software	HCM-0	BMS control (40-point license edition)	MRV II-C MRV II-S	
	IPC (Industrial personal computer) software	HCM-0P	BMS control (1051-point license edition)	MRV II-C MRV II-S	

MRV II

MRV II series

Accessories