Haier

Haier Air Conditioning

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Haier

2016 Residential General Catalogue

EU

Nov. 2015

Version 1.0

Haier

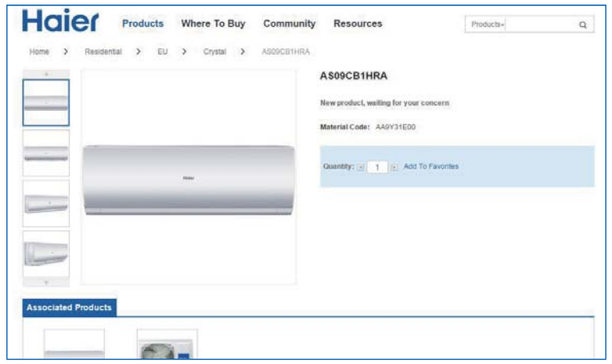
2016 General Catalogue
Haier Residential Air Conditioning

EU

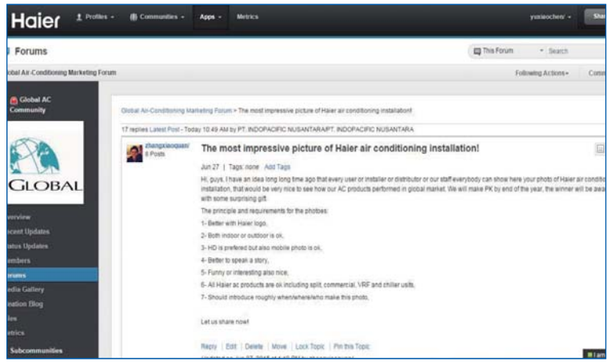
Haier Global B2B Platform

The Haier Air-conditioning dealer portal (www.haierac.com) is a platform to help Haier distributors, installer and professional personnels better understand and make business with Haier globally.

The portal becomes the official new product release channel, offering the latest materials of Haier A/C products with high resolution pictures, project reference to help our business partners understand how our solutions help the end users globally.



This platform offers an opportunity for our business partners to share projects, applications and other exciting stories with Haier.



This platform offers a community environment for our business partner to attain valuable resources, including catalogue, brochures, leaflat and other marketing documents. Moreover, the platform is a convenient place where all business partners can communicate with Haier directly.

http://www.haierac.com

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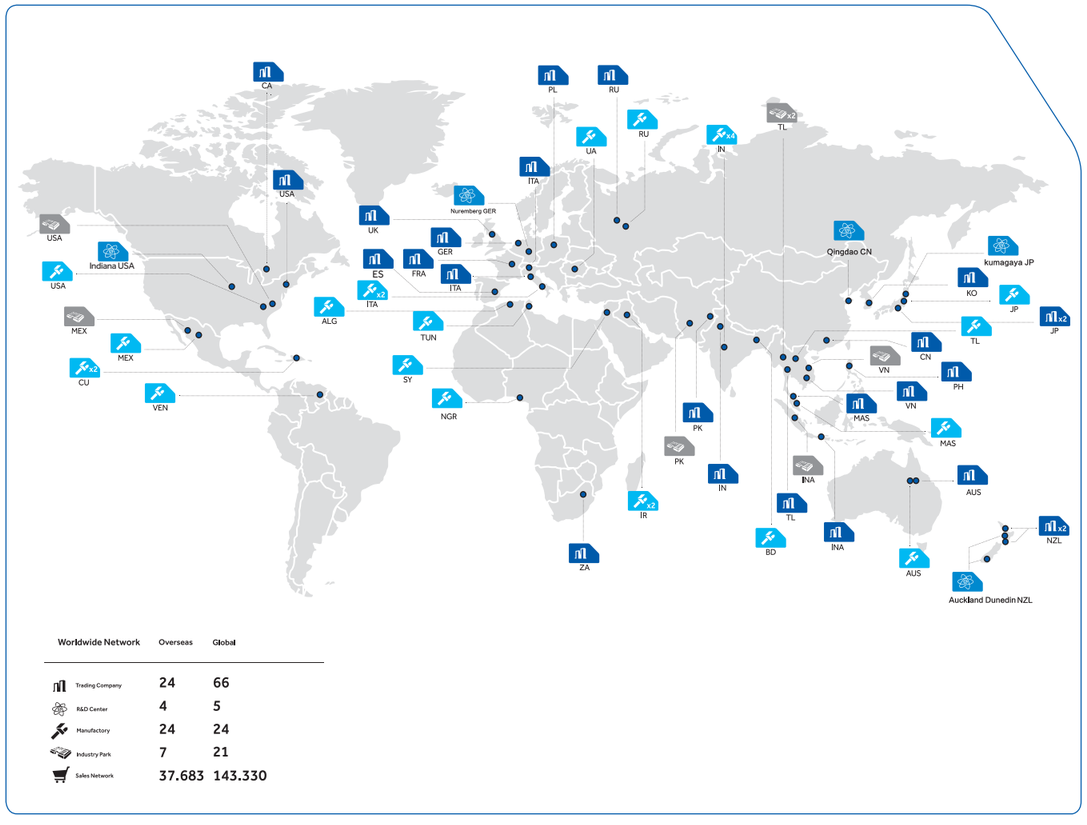
Haier Brand Story

The Internet era is a diverse and unconventional time, where “one size fits all” products and solutions simply aren’ t enough. Customers want to be treated as individuals and respected for who they are.
Everyone wants their unique lifestyle acknowledged. That is why Haier listens closely to you in order to gain a genuine understanding of what is going on in your life and what is on your mind. So each of you can get the smart home experience you deserve: be it simple, sophisticated, organized or enjoyable.
As a worldwide industry leader, Haier innovates beyond products and solutions and turns the organization into a wholly connected platform. In doing so, internal and external resources are connected quickly and easily. We believe only by doing so, we can best meet our consumers’ expectations in this rapidly evolving world.
Be part of the Haier Network. Create new possibilities.

Haier Global Network

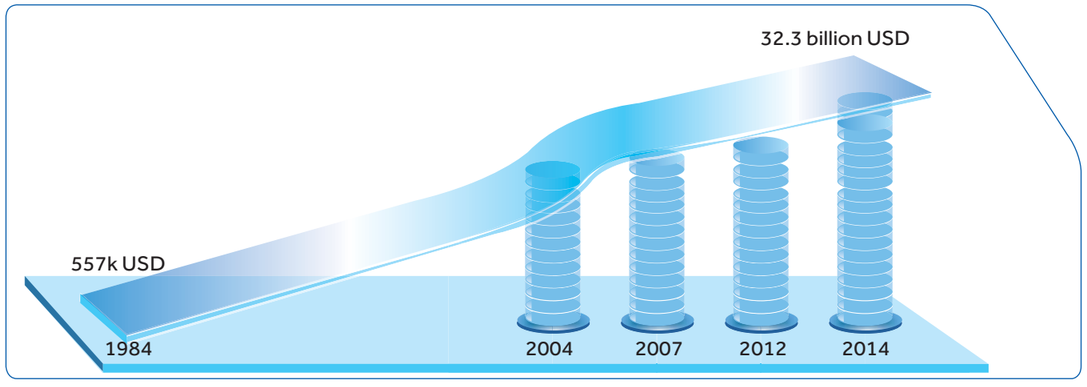
Haier has built up its infrastructures globally to meet the customers' quick evolving demands, including R&D centers, production facilities, trading companies and sales networks etc.
Haier's five R&D centers around the world have forged strategic partnerships with first-class suppliers, research institutions, and prestigious universities to create an innovative ecosystem composed of internal and external scientists and engineers connected by virtual and physical networks.



Worldwide Network	Overseas	Global
Trading Company	24	66
R&D Center	4	5
Manufactory	24	24
Industry Park	7	21
Sales Network	37.683	143.330

Haier Global Revenue

Haier is the #1 brand of Major Appliance in the world, with its global revenue reaching 32.3 billion USD in 2014.



Haier AC Milestones

30 Years Providing Better Air Solution

A history of bringing valued products to market around the world

1984

Haier group was founded in Qingdao, China

1985

Qingdao Qingkong air conditioner factory established.

Haier manufactures China's 1st split air conditioner

1993

Haier introduces China's first inverter air conditioner

1994

Haier receives ISO 9001 certification

Haier exports its first air conditioners to Europe

1996

Haier introduces full range light commercial air conditioning solution

1998

Haier introduces the first digital DC inverter air conditioner in China

1999

Haier begins export of air conditioners to the United States and reaches #1 brand status for Room and Portable Air Conditioners in 2005

2001

Haier builds up industry park in Pakistan and catches No.1 market share in 2005

2002

Haier adds portable air conditioner to the US offering

2006

Haier releases R410a centrifugal chiller with maglev technology and R410a DC inverter VRF system

2011

Haier introduces full range of Super match solution covering on-off and inverter models as well as mono and multi system

Super match

2013

Haier introduces Emperor series and Aero series floor standing models which lead the innovation in design and air supply system

2014

Haier establishes AC R&D center to enhance the R&D ability with more focus on user's experience

2015

Haier builds up the world's most advanced intelligent factory

2016

Haier introduces full range R32 air conditioning

Air Conditioning R&D Center

Haier headquarter air conditioning R&D center, located in Qingdao, China, covers 220,000 square feet. It has more than 120 laboratories, including psychrometric lab, compressor calorimeter lab, acoustic and vibration lab, EMC (Electro-Magnetic Compatibility) labs, material and chemistry lab. The R&D center also has the world tallest "drop tower" for testing long refrigerant piping tests(350 feet tall).

Besides testing labs, Haier also invested a user experience center can test all different types of HVAC systems in a variety of weather conditioning around the world. While maintaining a comfortable set temperature of the indoor rooms, the outdoor weather condition can be adjusted from sunny to rain, snow, windy andtemperature from -25°F to 140°F, relative humidity from 0% to 100%.

Quality certificates

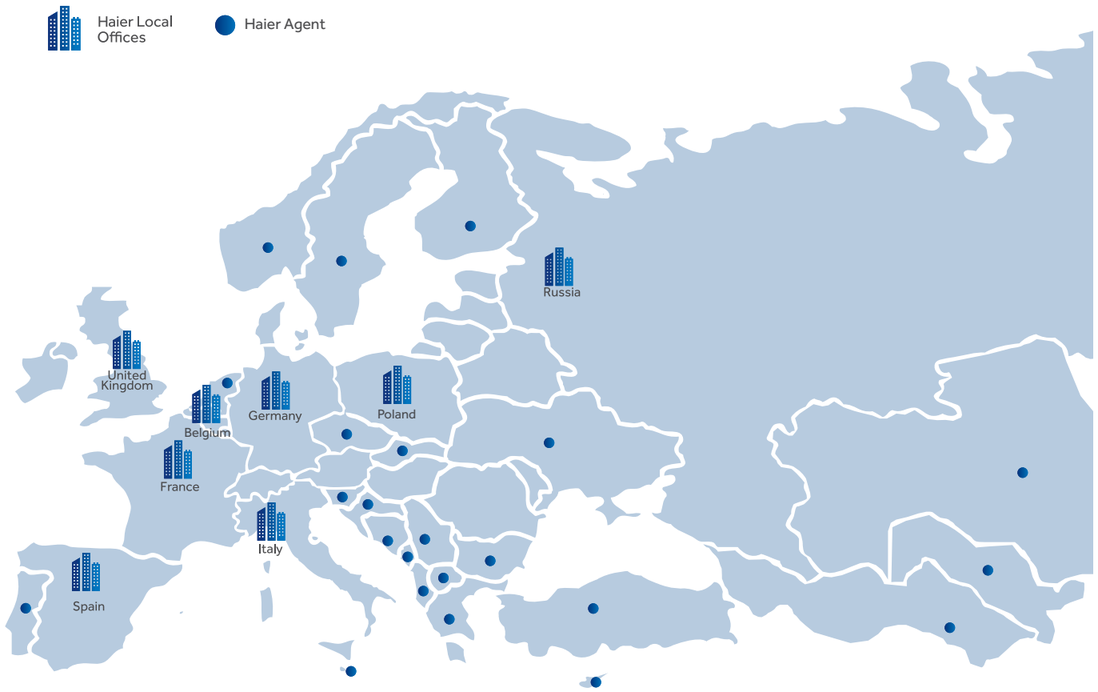
Global Manufacturing Capacity

Domestically, Haier AC is running 9 factories, 1 of which is MHAQ, a JV between Haier and Mitsubishi Heavy. In overseas markets, Haier is running 7 manufacturing plants.
With all these factories, Haier AC has a product capacity amounts to 20.1 million sets per year.

Haier Air Conditioning in Europe

European presence

Haier air conditioning focuses on building local organizations to offer more efficient and professional solution and service to our customers and users in France, Italy, Spain, Germany, UK, Belgium, Poland and Russia, while in other Europe countries listed below we mainly cooperate with the local professional HVAC partners to ensure our presence and service.



Pan Europe Training Courses

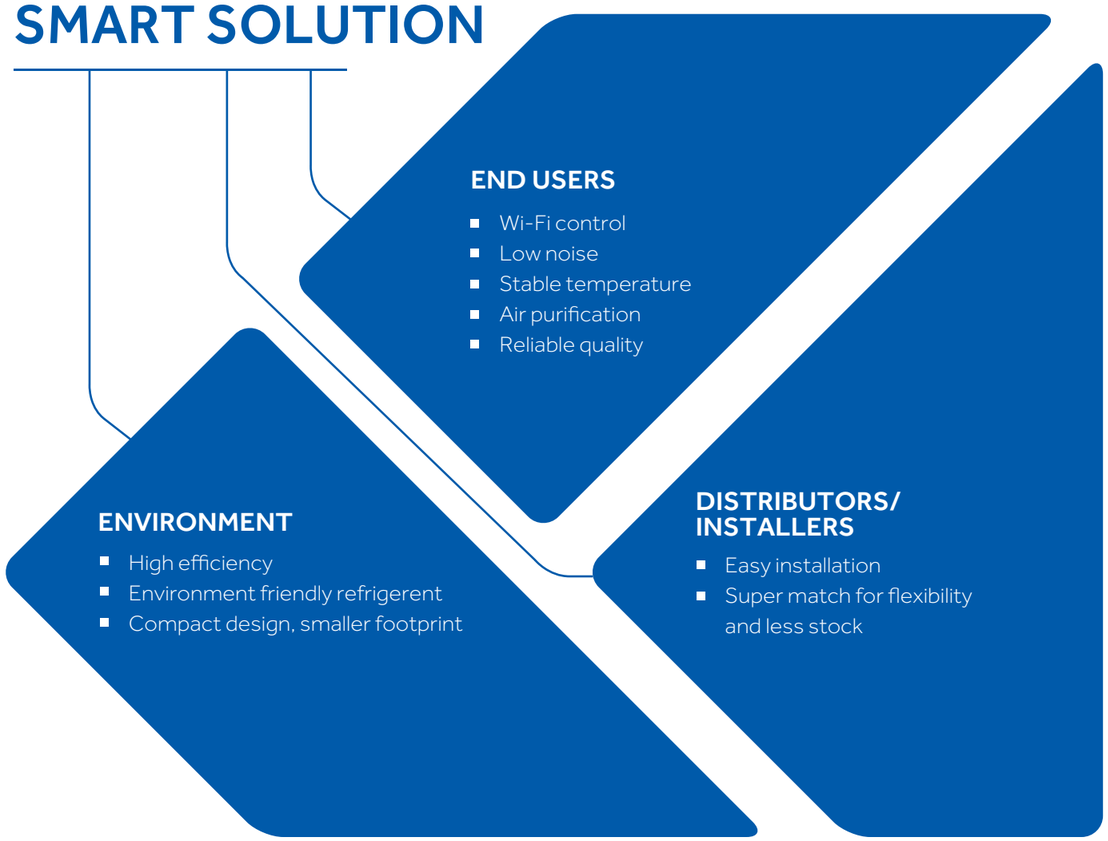
Smart solution

Haier AC commits to provide smart solutions for a comfortable life for global customers based on deep understanding of the more and more fragmented existing and potential demands.

Its SUPER MATCH product line makes 100% free match between different types of indoor and outdoor units possible, covering mono and multi system, representing a friendly solution for distributors and installers.

The SUPER MATCH MAXI line will be an effective and economic solution for light commercial environments like meeting hall etc.

The Wi-Fi control function, which is to be introduced in late 2014 will provide utmost convenience to end users. Whenever and wherever you are, your air conditioner is always under your control with Wi-Fi control function.



Haier Air Conditioning in Europe

Haier air conditioning commits to offer upgrade solutions meeting the requirements of EU environment protection regulations!

Preventing dangerous climate change is a key priority for the European Union, EU is working hard to improve energy efficiency and cut its greenhouse gas emissions.

EU is looking for action plan to realize objectives for 2050

- At least 40% cut in greenhouse gas emissions compared to 1990 levels
- At least a 27% share of renewable energy consumption
- At least 27% energy savings compared with the business –as-usual scenario

New F-gas Regulation from 2015

The original F-gas Regulation, adopted in 2006, is being replaced by a new Regulation (EU) No 517/2014 adopted in 2014 which applies from 1 January 2015. This strengthens the existing measures and introduces a number of far-reaching changes by:

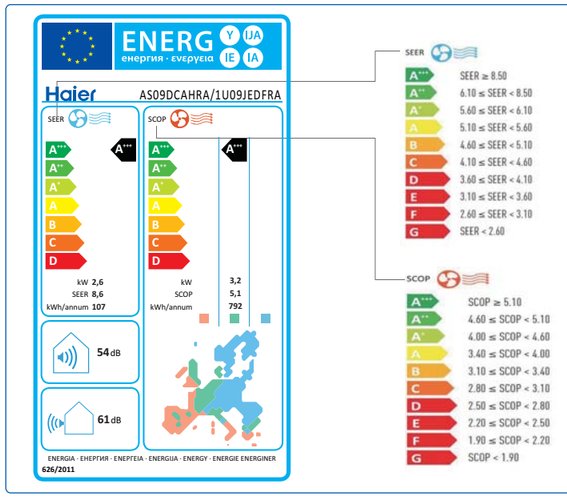
- **Limiting the total amount** of the most important F-gases that can be sold in the EU from 2015 onwards and phasing them down in steps to one-fifth of 2014 sales in 2030. This will be the main driver of the move towards more climate-friendly technologies;
- **Banning the use** of F-gases in many new types of equipment where less harmful alternatives are widely available, such as fridges in homes or supermarkets, air conditioning and foams and aerosols;
- **Preventing emissions** of F-gases from existing equipment by requiring checks, proper servicing and recovery of the gases at the end of the equipment's life.

Haier air conditioning keeps investment in R&D for new AC solutions such as R32 system to decrease the GWP impact.

The ERP directive(eco-design)

Haier AC has developed full range solutions covering all levels of energy class according to new ErP directive.
- Furthermore Haier minimum energy class is leveled up to A++/A+ (9k) which is much higher than the compulsory entry level (B/A) required by the regulation.
- Also in 2016, we develop more ranges with both R32 and R410A reaching SCOP A+++ and SCOP A++ and guarantee the reliable operation in cold ambient temperature place like Nordic area.

For detailed information about ErP, please visit our B2B website： http://www.haierac.com



Seasonal efficiency, measuring the real-life performance

From 2013, EU start to launch the seasonal efficiency measurement and minimum entry level for all AC equippments below 12KW according to the new ErP directive.

Seasonal efficiency reflects a heat pump's or air conditioner's true energy consumption, reflected as annual energy consumption, and efficiency (SEER value in cooling, SCOP value in heating) in typical day-to-day use, and on a longer term. It takes into account temperature fluctuations and standby periods to give a clear and reliable indication of their energy efficiency, for an entire heating or cooling season.

The 'seasonal efficiency' ratio (SEER) , compared with the EU previously used the 'nominal efficiency' ratio (EER), the major changes include:

• the integration of several rating temperatures for cooling and heating.

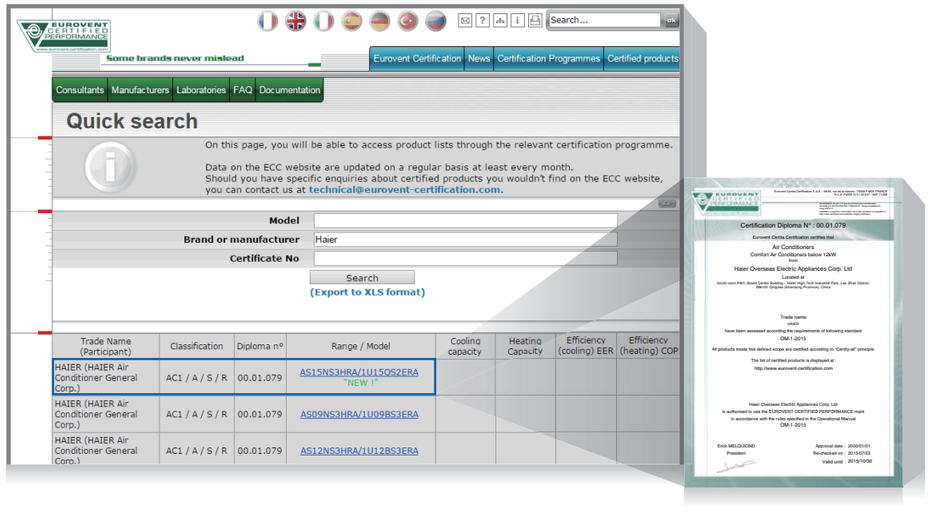
• the inclusion of energy use at part-load as well as full-load.

• the power used in auxiliary and standby modes

Since most systems operate under a partial load the majority of the time, the new methodology "seasonal efficiency" gives a better indication of expected real-life performance.

Eurovent certification

Haier has been committed to develop reliable AC systems with high performance, our residential ranges and light commercial ranges continue to be recommended in EUROVENT certification list as we have done in the last over 10 years, this ensures Haier products & solutions are certified as one of the best choices by the installers and professional users.



Haier innovates for F-GAS and seasonal efficiency

In order to meet the F-GAS regulation and the upgraded requirements of energy efficiency in EU, Haier has made considerable investment in R&D to provide advanced AC solutions.

In 2016,Haier will launch two new R32 ranges Dawn series SCOP A+++ and Nebula Green series SCOP A++ equipped with standard WIFI kit, with Dawn series we realize the lowest noise level 15 dB(A) in the market, precise human/light sensors and -30 ° C low ambient heating etc., all these advanced functions are committed to bring outstanding experience to users.
Furthermore, Haier will launch a new R410A range Tundra series SEER A++, very quiet operation 20 dB(A) and highly reliable and efficient DC compressors and motors.
And the new Cabinet series SEER A++, offer a best solution for the bigger space like restaurant, small shop and living room etc. where the people need more fast and strong cooling capacity.
Air Cube is another innovation one-step solution for the healthy air, it offers 4 separated modules as fragrance, humidification, dehumidification, purification and you can also combinate them with free DIY experience.

Nebula Green(SEER/SCOP: A++/A++)
9K/12K/18K

- Super quiet
- Wi-Fi control
- Long distance air supplying

Tundra(SEER/SCOP: A++/A+ Refer to 9K/12K/18K)
9K/12K/18K/24K

- Super quiet
- Intelligent air
- Long distance air supplying

Cabinet (SEER/SCOP: A++/A+)
24K

- Wi-Fi control
- Super quiet
- Super long vertical blowing cabinet design, supplying fast comfort for big space

Air cube

Five kinds of pure plant aroma for your choice.

Leading evaporative humidification technology with healthy silver ion sterilization filter.

Effectively removing PM2.5, formaldehyde, benzene, ammonia and other TVOC harmful substances.

Accessory

USB-WiFi

New remote controller

Wired controller

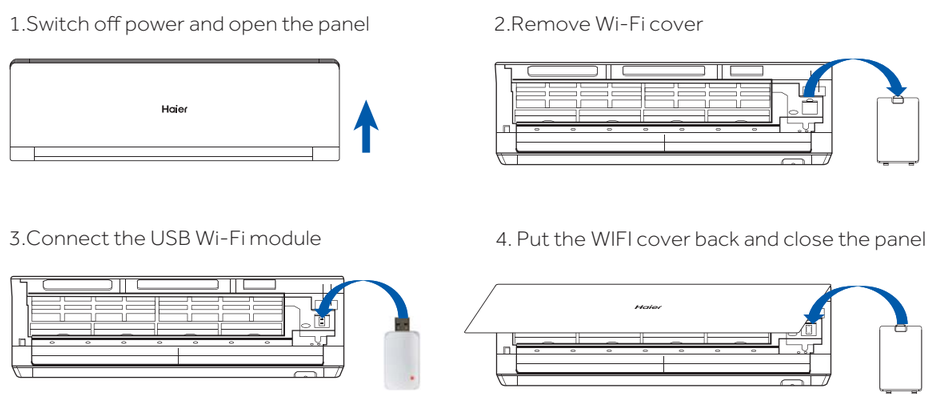
Wired controller transfer kit

Wi-Fi Control

Haier Wi-Fi control function is easily available with Haier Smart Air APP, Haier Wi-Fi module, router wifi an d smart terminals like smart phone etc. To start the Wi Fi control function, it will be the first step to download Haier Smart Air APP from Apple's AppStore and Android's Google Play, and then start the APP and make registration. After successful registration, you will be invited to add your air conditioners in the control list. For easy operation later, it is possible also to rename the air conditioners or group the air conditioners.
With all the above operation completed, you will enjoy the convenience of controlling your climate wherever you are.

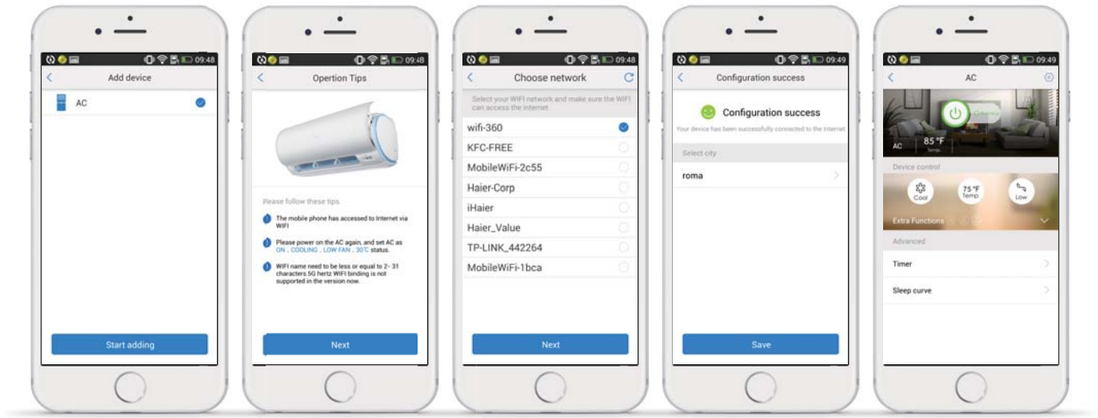
*The information listed is subject to changes and updates. Available in 2015.

Easy installation



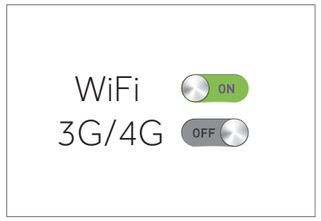
Easy Configuration

Make sure the mobile phone has accessed to Internet via Wi-Fi, then press the On/Off button on the remote controller for 5 seconds, then you can control the AC.



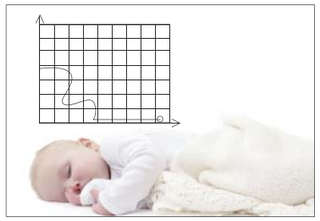
Add device | Equipment linking | Choose network | AC set | Configured successfully

Functions



Convenient control

End users can control the air conditioners from wherever through WI-FI or 3G network.

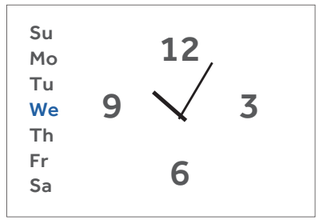


Sleep curve

Four typical sleeping curves are given for children, the aged, adult woman and man. End users can adjust the sleeping curve by themselves.

Error alarm

Error code can be shown in the APP, which will enable service easier.



Weekly timer

Users can previously set the air conditioners on or off at any time on any day in one week and also can choose operating mode, set temperature and select fan speed.

Cloud suggestion

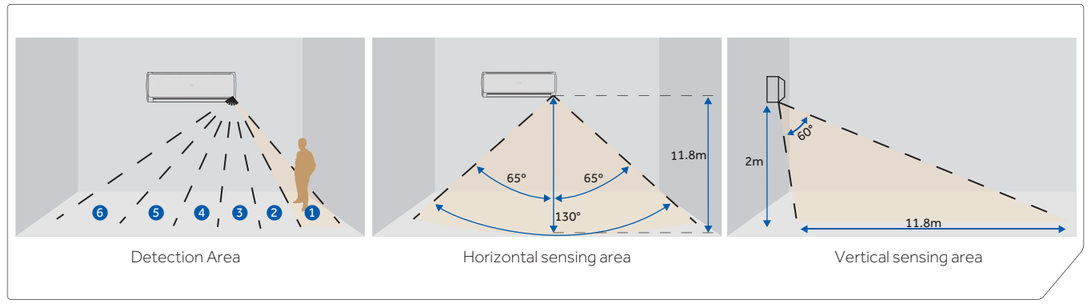
Cloud service center can release the weather forecast of the nearest big city and other warning information to the users.

Group control

End user can not only control one AC but also control group AC units

Ecopilot—human & light sensors

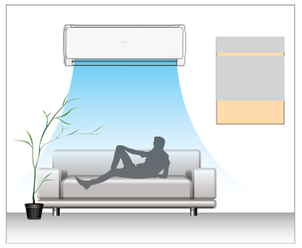
The human sensors divide the room into 6 sections. By detecting the number, location and movements of people it realizes intelligent control on the temperature and airflow. People could choose the airflow to follow or avoid their movements. Besides,light sensor detects changes in sunlight intensity in the room and enter the sleep mode automatically. In addition the temperature could be automatically adjusted to energy-saving operation according to the number of people.



Detection Area | Horizontal sensing area | Vertical sensing area

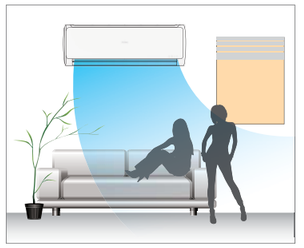
Ecopilot—save energy efficiently

Ecopilot detects and reduces energy waste in all the right ways. Intelligent sensors detect potential waste of energy by using the human activity sensor and sunlight sensor. It is able to monitor human location, movements, absence and sunlight intensity. It then automatically adjusts cooling power to save energy efficiently with uninterrupted heating and cooling comfort and convenience.



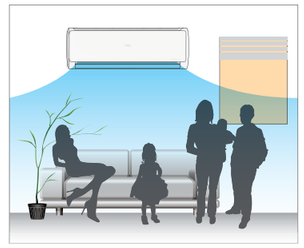
New Temperature Wave

Rhythmic temperature controlled pattern to save energy without sacrificing comfort.



Area Search

Directs airflow to wherever you are in the room. Ecopilot detects changes in human movements and reduces the waste of cooling the unoccupied area of the room.

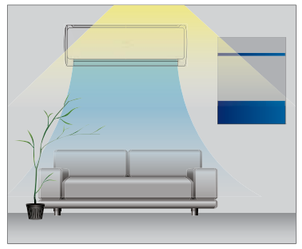


Activity Detection

Adapts cooling power to your daily activities. Ecopilot detects changes in activity levels and reduces the waste of cooling with unnecessary power.

Absence Detection

Reduces cooling power when you are not around. Ecopilot detects human absence in the room and reduces the waste of cooling an empty room.



Sunlight Detection

Adjusts cooling power to changes in sunlight intensity.

Comfort

The innovative design enables the end-users to stay with full comfort

Super quiet

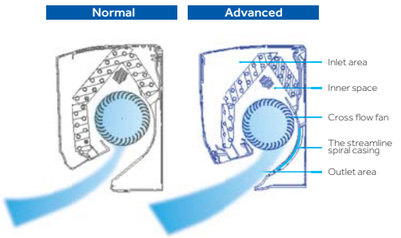
Enjoy super quiet [lowest at 15dB(A)]while using Optimized airflow system

Feeling disturbed by the air conditioner operating noise? Haier air conditioning levels up the noise control technology including adoption of optimized air duct and optimized cross flow fan design with the specialized QUIET setting.

(Remark: 15 dB(A) refers Dawn series 9000BTU model.)

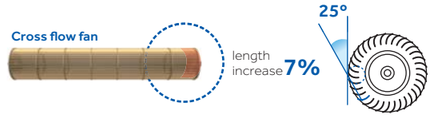
❶ Optimized air duct design

- With adoption of optimized air duct, the air inlet area is enlarged by 17%, outlet area is enlarged and also the inner space between the evaporator front cover , which helps to increase the airflow and lower down the noise level.
- The streamline spiral casing is optimized to the return air in the front side and lower down loss at the back side so as to eliminate abnormal sound and enlarge airflow volume.



❷ Optimized cross flow fan design

- The cross flow fan is redesigned to be longer than the conventional one to increase the air volume. Through optimizing the inclination angle of cross flow fan blade, the airflow surrounding the fan blade is less distorted and the fan noise is minimized.



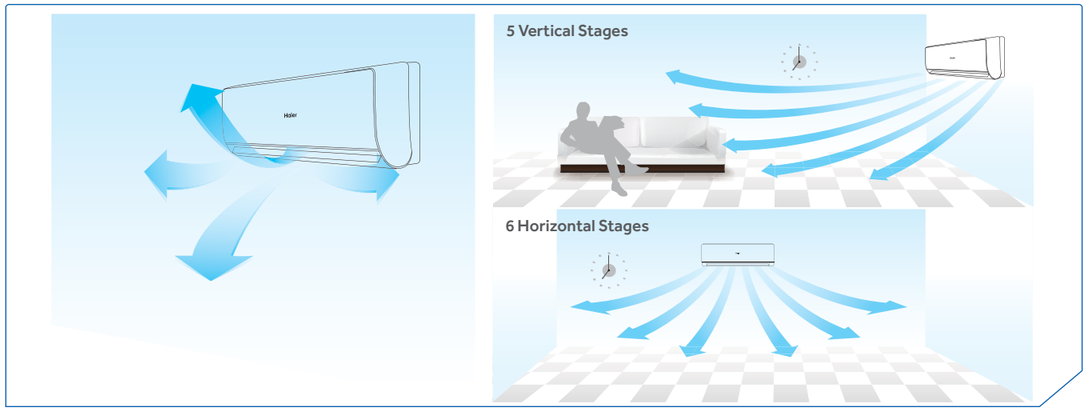
❸ Special design electronic control system

Haier air conditioning supported by the special electronic contorl system,with the A-PAM DC inverter technology and DC fan motor lower the sound level of motor and provide high static pressure capability,and also reduce the sound level of the indoor unit.

(Remark: All the data is referred to 9000&12000BTU Dawn indoor unit comparing with Geos indoor unit.)

3D airflow

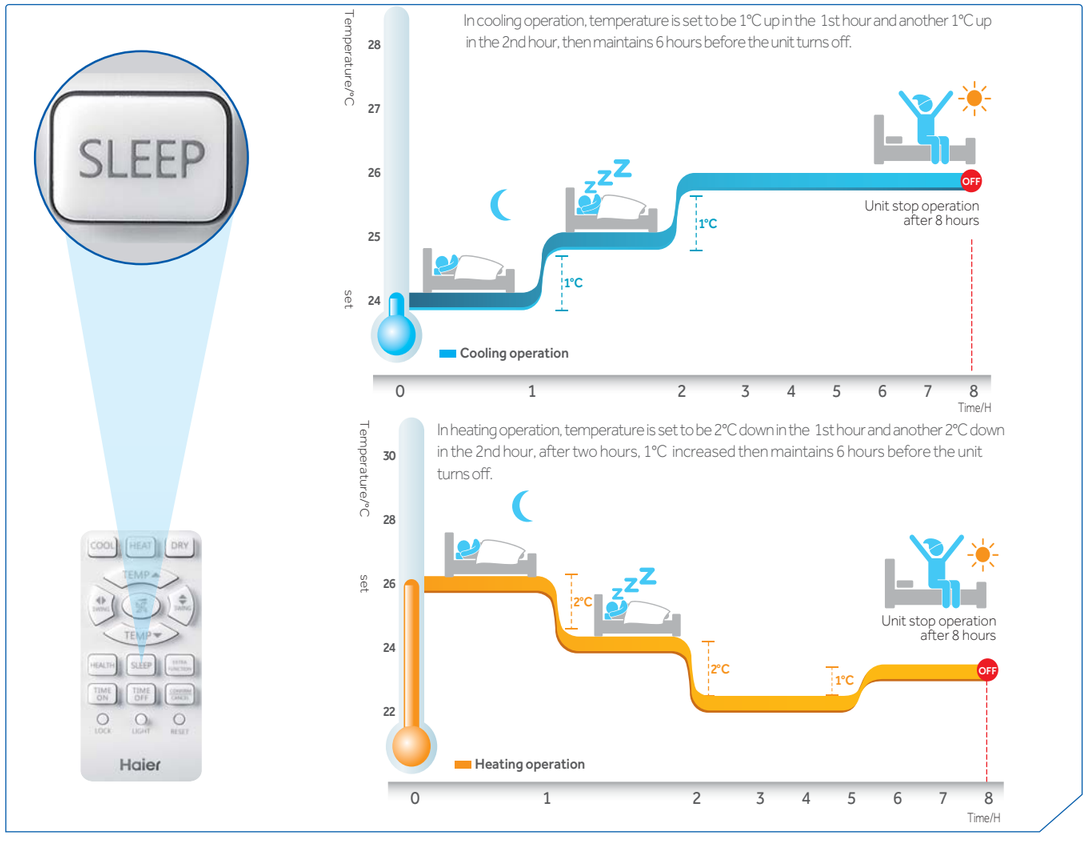
Through horizontal and vertical movement of blades to realize the air flows upwards, downwards, left and right. Make the customer feel comfortable at every corner of the room.



Comfortable sleep

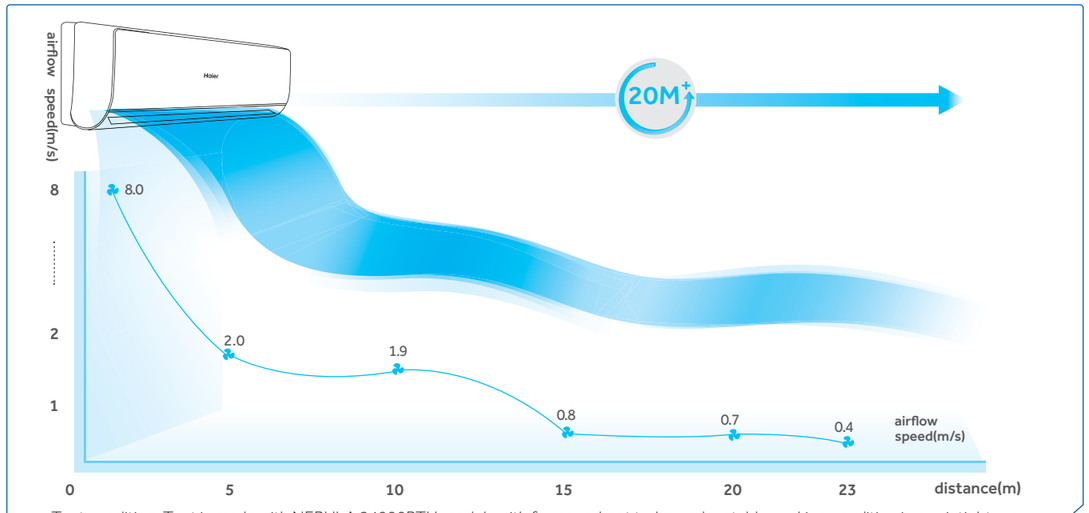
Operates under a special program while SLEEP mode is chosen

Waking up at midnight because feeling cold with air conditioner on? Thinking to turn off the air conditioner before going asleep to save energy? Haier air conditioning has a special program designed for the night sleep so it will become not so hot or cold at night to ensure the utmost comfort and energy saving during night sleep.



Long distance air supplying

No even temperature in too big room with air conditioner? Having to be seated near to the air conditioner to enjoy the coolness or warmth? Haier air conditioner, with specially designed cross flow fan and optimized air duct, can make air supply as far as 20+ meters for 24000BTU models.



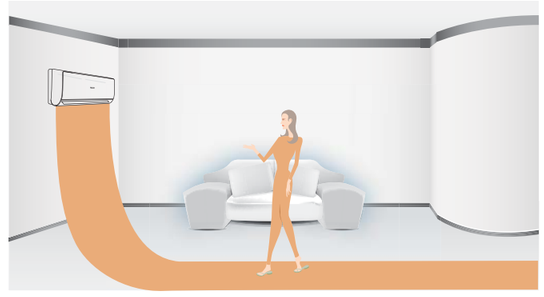
Test condition: Test is made with NEBULA 24000BTU models with fan speed set turbo under stable working condition in an air tight room.

Intelligent health air

With twin air outlet blades design, according to the person's location in thefollowing 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.

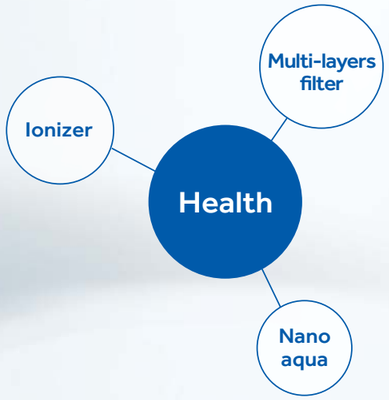
The airflow is directed upwards in cooling mode.

The airflow is directed downwards in heating mode.



Health

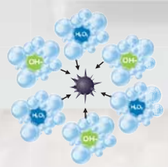
The air purifying system provides clean air and cares your health



Nano aqua

Air purification

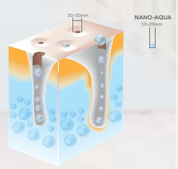
Nano Aqua generator also ionizes the water molecule into H+ and O_2- which change to active substances OH or H_2O_2 after chemical reaction, killing the bacteria by changing the molecule structure.



Skin care

Do you feel uncomfortable in the dry weather? Because your skin are losing moisture!

Nano Aqua generator will react with water to generate micro cluster water, which can be easily absorbed by the harny layer of the skin, keeping the skin moist.



Healthy ionizer

Enjoy the feeling of a forest at home.
Just press the health button, your room is filled with refreshing ions.
When this function is switched on, the concentration would reach to tens of thousands in 10 minutes and one million within half an hour.

Negative ion generator

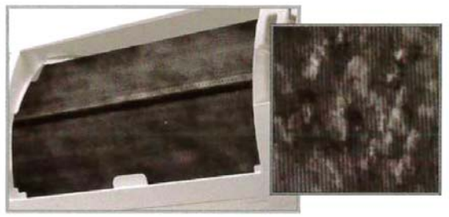
Negative ion generator is an independent part, which switches the input power to negative DC high voltage through step up circuit, generates high corona through the point DC high voltage and emits huge amount of electrons (e-). The electrons are captured instantly by oxygen molecules (O2) in the air and negative ions are generated.

Evaporator self-cleaning

The auto cleaning function helps to keep the heat exchanger clean from mould, bacteria and dust, etc.

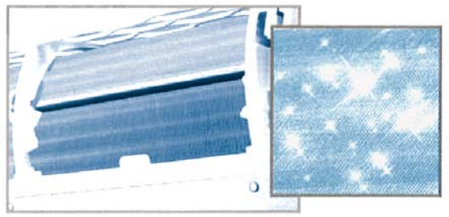
Interior of the unit dries out automatically after use.

Conventional VS Auto Cleaning



Conventional

The main cause of ordor and pollution is mold Once the coil gets wet, the organisms will breed and create threats to health.

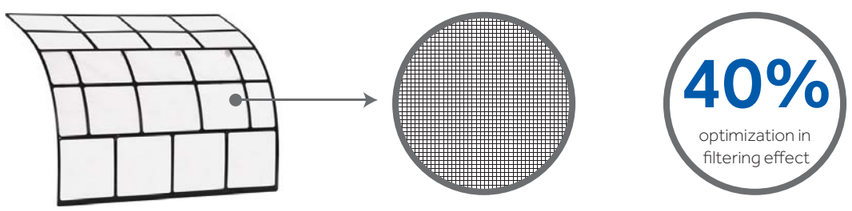


Auto cleaning

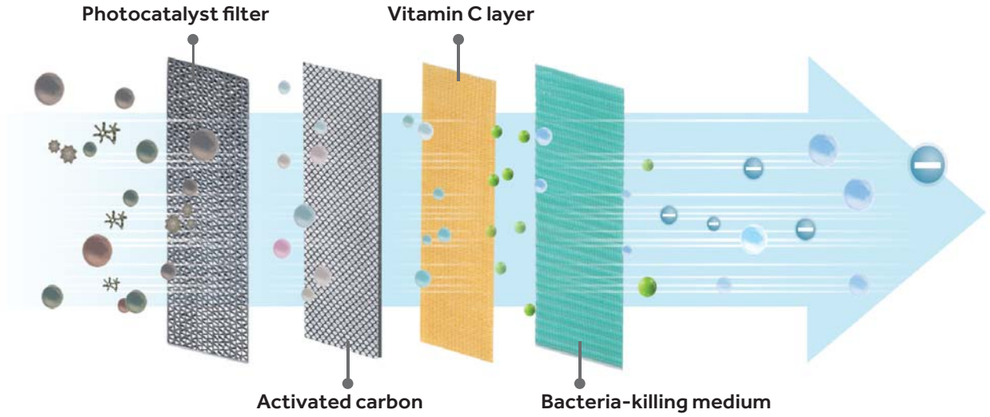
This function dries the wet heat exchanger to prevent the breeding of molds and bacteria. It eliminates the ordor from the unit and saves inconvenience from cleaning the filter.

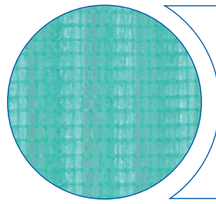
Exquisite filter

The length of each side of the grid is measured as of 1.2mm, while the length of each side of the grid of conventional design is of 2mm.
A 40% optimization of filtering effect can be deemed realized by the exquisite filter.

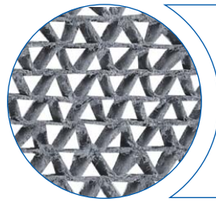


Multi-layers filter



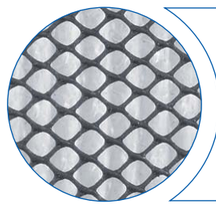


Bacteria-killing medium(optional)
3-in 1 Effect
Anti-Allergen, Anti-Virus, Anti-Bacteria & Mould



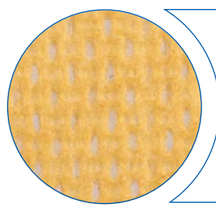
Photocatalyst filter(optional)

Photocatalyst Filter eliminates a variety of odors-causing substances from cigarette smoke particles to chemical vapors. Exposing the filer to sunlight will regenerate the deodorizing effect.



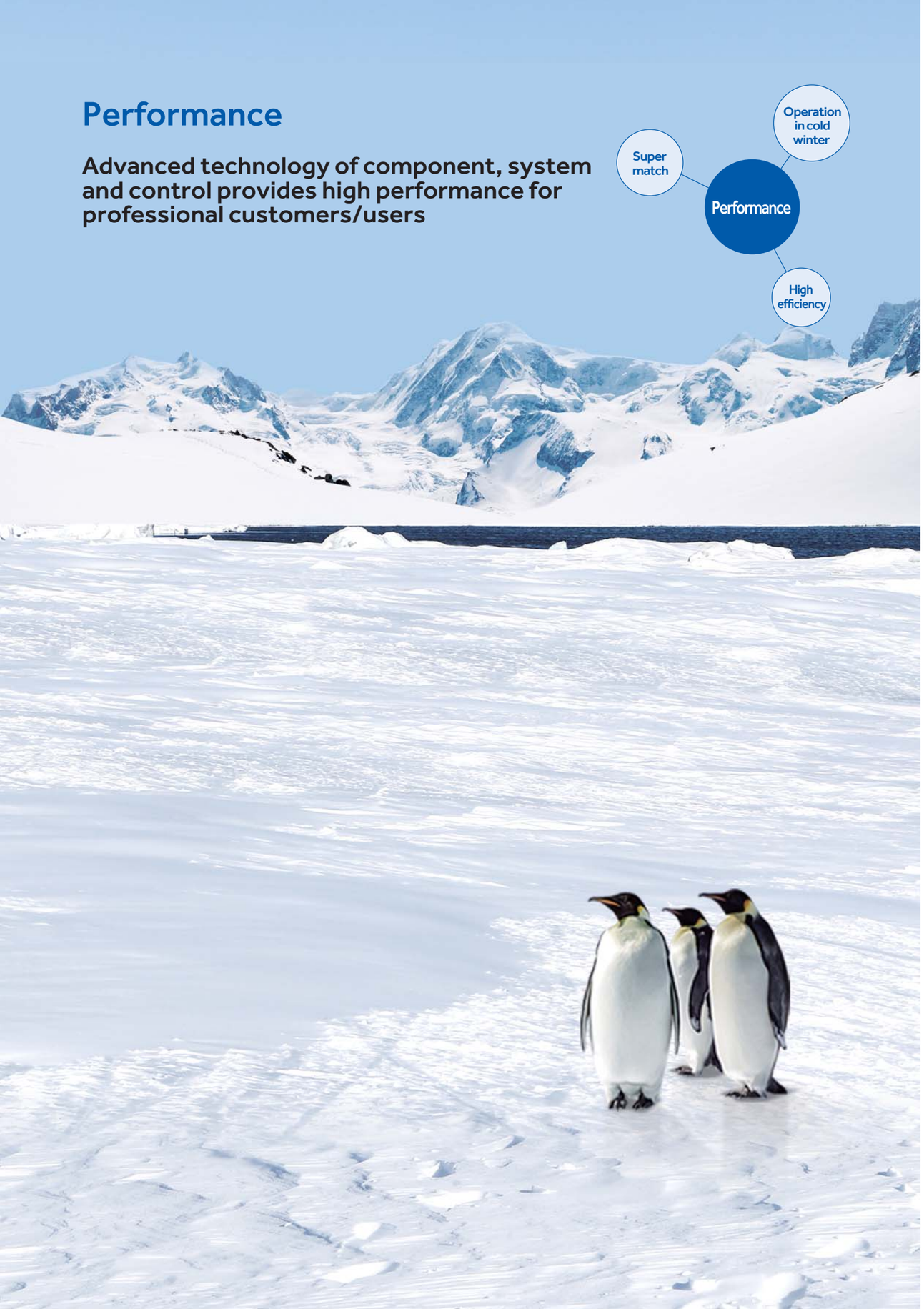
Activated carbon(optional)

Activated carbon can effectively remove the benzene, radon,TVOC and other articles which are harmful to human body. It also has obvious purification function.



Vitamin C layer(optional)

Haier air-con's VC layer can release fresh VC to the air.



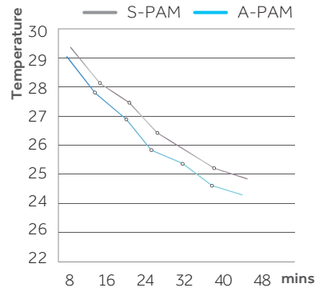
A-PAM DC inverter control

With adoption of S-TYPE, S-PAM and PHASE control technology (called A-PAM), Haier DC inverter air conditioning works more stably at low-frequency , and is more energy-saving, more powerful at high frequency.

- Cooling Efficiency 15% increased: To achieve a drop of 5 degrees centigrade, S-PAM technology takes 56 minutes, A-PAM technology takes 48 minutes.
- With precise control on voltage, the compressor will run more stably so that compressor working life is ensured and the system runing noise is decreased.

Comparison with S-PAM

Temperature Reducing Comparison

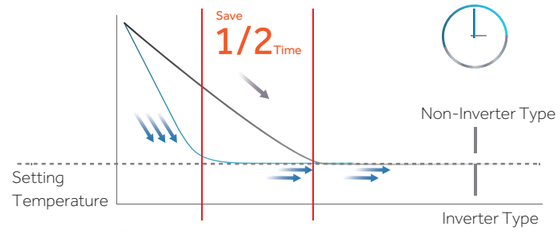


Test condition: Both 12000BTU Zircon models with A-PAM or S-PAM technology are tested under the same condition-running for entire 4 hours stably in standard lab with temperature set at 20°Cand fan speed at HIGH.

Comparison with On/Off

❶ Quick comfort

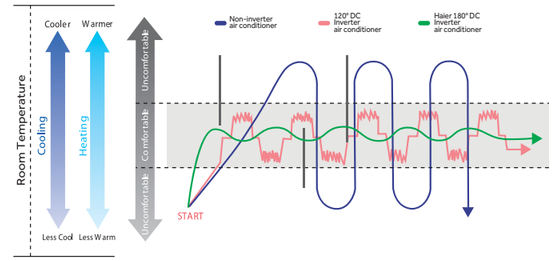
When an inverter air conditioner is switched on, it supplies the exact power needed to cool the room rapidly.
This enables the air conditioner to reach the set temperature in around half the time required by conventional models and to bring quick cooling and heating comfort to the customers.



The graph is a representation of temperature changes during cooling

❷ Stable temperature operation

The inverter units can quickly and efficiently adjust the room temperature to reach the set temperature.
It can maintain the operating temperatures within the "Comfort Zone" at all times to eliminate the temperature fluctuations associated with traditional on/off units.



Super match

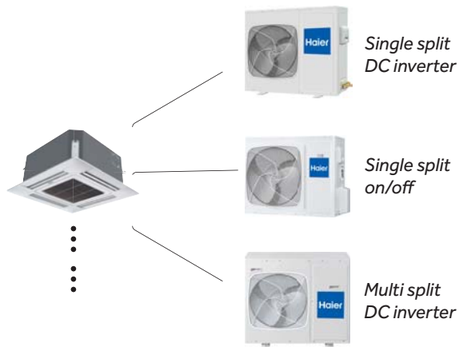
100% free combination, 51% less stock

For offices and apartments, villas and shops, Haier Air Conditioning provides total residential and light commercial solution with the innovative SUPER MATCH series. Stock management is made easy. Just imagine the savings in warehouse space, spare parts and logistics that all translate into cash-flow in your balance sheets.

Universal communication protocol technology

Universal outdoor unit for high-wall, console, cassette, convertible, duct and cabinet

Universal indoor unit for single or multi split outdoor unit, no matter inverter or on/off



High efficiency outdoor unit

PCB hangs upside down. This special water-proof design greatly ensures the long lifetime of PCB

Inside equipped with sealed side panel, it can prevent from condensing water drops of the outdoor fan so as to assure reliability

Equipped with two independent handles, the outdoor unit is easier for transportation, installation and maintenance.

The metal casing is 3mm thicker than conventional outdoor, it provides more space for compressor and other components , which leads better heating radiation and avoiding collision of wiring and piping

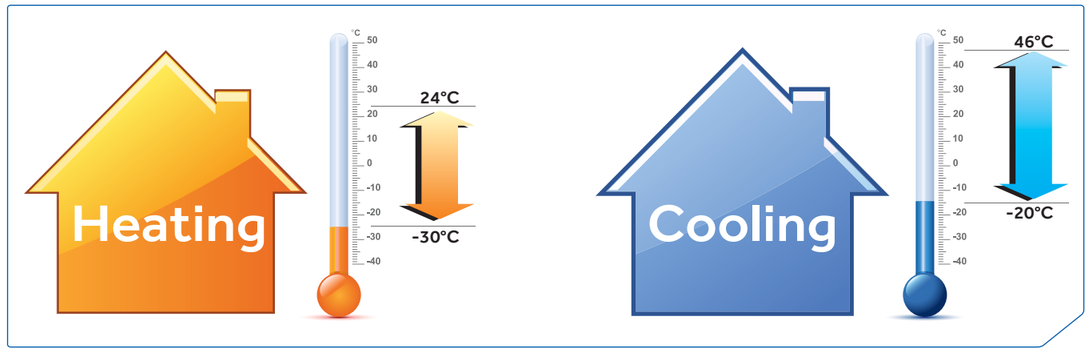
Small slope design of bottom plate makes more easy water draining out

Wide temperature operation

-30°C low ambient temperature heating

-20°C low ambient temperature cooling

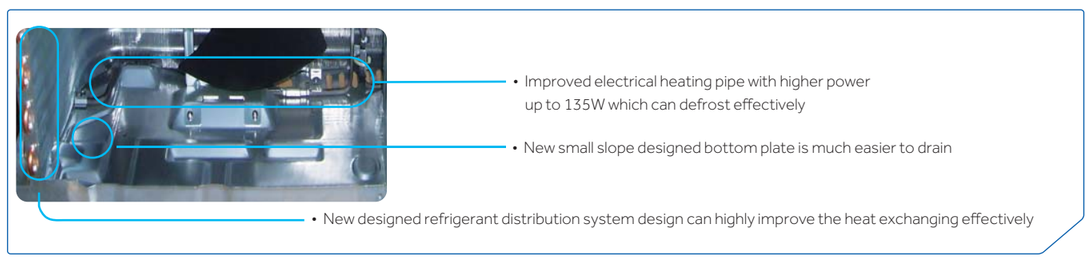
(Remark: The data is referred to Dawn series)



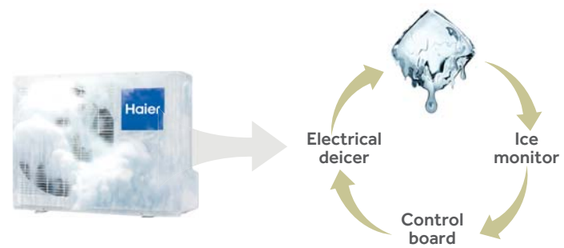
❶ High performance components

Twin-rotary compressor and DC motors both indoor and outdoor ensure good performance in the cold winter.

❷ Special designed defrosting programme & deicer system



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.
Auto defrosting: The unit will enter defrosting mode if its sensor detects the risk of icing.



Reliability

Reliability testing &High quality components

Haier high quality of air conditioner is guaranteed with all tough testing including environmental simulation (simulated sunshine , simulated snowfall, simulated rainfall, simulated hurricane etc.), transportation testing(humidity condition handling, slope strike, drop test and vibration test),noise level testing, reliability testing, electromagnetic compatibility (EMI&EMS) and performance testing, with which we hope to offer the best reliable experience to our users.

Simulated rainfall test

Rainfall can reach rainstorm in 5 minutes，even rainstorm erosion can' t damage any electrical part, air conditioning operation is still strong.

Simulated hurricane test

12 levels of strong hurricane and severe sandstorm make every Haier air conditioner running more tough.

Simulated sunshine test

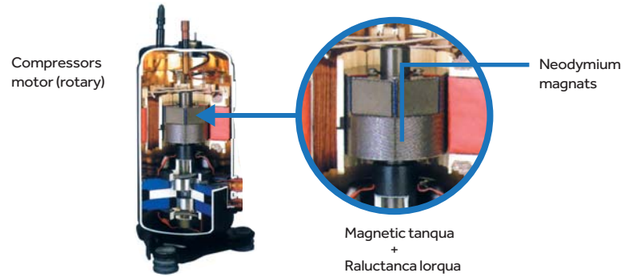
65°C ultra high temperature and harsh sunshine can' t stop the running of the air conditioning, cool performance remain powerful.

Simulated snowfall test

35°C ultra low temperature harsh test, confront blizzard, air conditioning heat function become more efficient and effective.

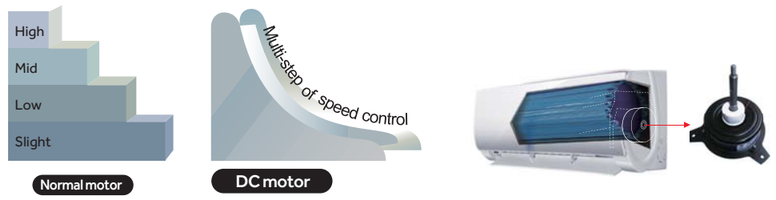
High efficiency compressor

Haier twin rotary compressors feature powerful neodymium magnets which are 10 times more powerful than conventional magnets. Through adoption of high efficient compressors, electrical loss from power source can be reduced, power input can be maximized.



Stepless speed transmission motor

Haier BLDC motor enables the unit to realize stepless speed transmission which results in less energy consumption, lower noise and greater comfort.

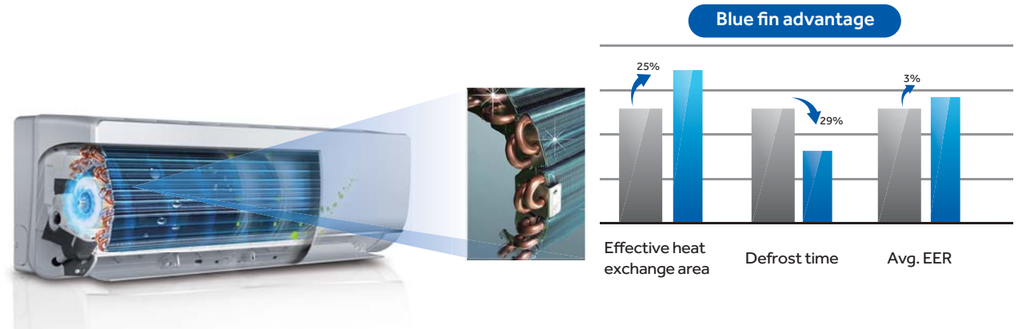


Blue fin evaporator

Haier evaporator adopts new generation blue aluminum fin which specializes in strong corrosion resistance and super hydrophlic performance. The benefits for the customers are as flollows.

1.Energy saving. The super hydrophilic performance enhances the heat exchanging efficiency by 40%.

2.Long life running. The blue fin evaporator is more resistant to corrosion with anti-corrosion coating on the surface, which enables the units to enjoy durable and long-life running.



Icon Guide

Smart

Wi-Fi control

Control your air conditioning system with smart phone or tablet which can connect internet.


Ecopilot-human sensor

Automatically adjust operation frequency and modes to save energy, improve comfort and convenience by monitoring human location, movements, absence with 2 human activity sensors.


Ecopilot-light sensor

Light sensor detects changes in sunlight intensity in the room and enter the sleep mode automatically, then it can offer comfort and save energy.


On-Off card

Control the system with a room card in the remote place through the level signal. It is widely adopted in the building, hotel or other commercial space. convenient for management.


Wired controller transfer kit

The indoor unit connect the wired controller by wired controller transfer kit.

Comfort


Super quiet

Optimize the noise control technology,such as frequency adjustment,fan speed control and air flue design decreasing noise level lowest to 15 dB(A) . (Refer to Dawn 9k).


Comfortable sleep

The setting temperature and the indoor noise can be adjusted to a more comfortable level when you set the "sleep mode" during night sleep.

3D airflow

The 3D airflow is able to deliver the airflow horizontally and vertically, so bring the feeling like nature wind.

Long distance air supplying

The indoor unit is improved by the optimized motor, fan and air duct so as to provide long distance airflow with 20m+ maximum. (refer to Nebula 24k).


Intelligent air

Airflow automatically upward when cooling or downward when heating to spread air automatically throughout the large room while without blowing directly to human body.


Carpet airflow

The special designed function for console type makes the possibility of airflow blowing along with the floor level so as to provide the extreme comfort like warm carpet especially in the winter bedroom.


Auto horizontal airflow (two motors)

With two special step motors to adjust the vertical flaps moving horizontally and automatically, they can realize 5 positions with different directions to offer more comfort airflow.


Auto horizontal airflow (one motor)

With one special step motor to adjust the vertical flaps moving horizontally and automatically, it can realize 5 positions with the same directions to offer more comfort airflow.


Double horizontal flaps airflow

With two horizontal flaps and two step motors , they can realize more positions (4 positions for cooling and 5 positions for heating) and two intelligent angle to get more comfort airflow.


Auto vertical airflow

With one special step motor to adjust the horizontal flaps moving vertically and automatically, it can realize 5 positions air angle,2 intelligent air angle and total auto blowing, when the unit is switched off, the flap will close automatically.

DIY auto mode

You can set a temperature value, with which the unit can adjust the operation mode automatically.


Auto mode

According to the fixed temperature 26℃ (under cooling)or 23℃(under heating), the unit will adjust the operation mode automatically.


Quiet mode

Just press the button "turbo/quiet" on the remote controller, the air conditioner will work in quiet mode.

Turbo mode

Just press the button "turbo/quiet" on the remote controller, the air conditioner will work in turbo mode to get the fast cooling or heating.

Precise temp control 0.5℃

Can make the setting temperature by 0.5℃ so to achieve more precise comfort and energy saving.

Health


Nano-aqua

Haier unique Aqua generator can ionize water molecules into H^+ and O_2^- as well as small cluster of water , which can keep your skin moist and have the effect of air purification.


Negative ion

The negative ionizer can produce approx. 20000 negative ions/cc which can clear dusts and bacterias so to purify the indoor air and care your health.


Evaporator self-cleaning

With a new-generation hydrophilic foil, when the air conditioner in cooling or drying mode, the dust on evaporator will be taken away by condensed water flowing rapidly.


Exquisite filter

Effectively prevent the smaller dust articles, insects and other materials coming into the room.


Anti-mold filter

Catches most small articles and remove unpleasant odors efficiently.

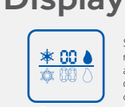

Negative ion filter

The filter is durable which could automatically release negative ion, and has antibacterial, deodorizing function.

DRY function

When the unit working in dry mode, it can adjust the indoor fan motor speed automatically according to the temperature gap between setting temperature and room temperature so as to get mild dehumidification or strong dehumidification.

Display


Consealed LED display

Special designed panel and LED display which make it possible to show the working states and functions only when the unit on while the display and frame can not be seen when unit off in order to keep indoor decoration with sense of wholeness. Of course you can cancel the display whenever you want.

Self-diagnosis

The LED display of the indoor units will show the error code in order to make service more easier.

Double 8 display

Simple 88 display shows clearly the indoor unit setting temperature(when setting) or room temperature(after setting).

Friendly


Easy support clip

It is more convenient for installation by extending space with additional support clip, meanwhile, saving time.


Easy mounting plate

With calibration, measure and space for tape line on mounting plate, it is more convenient for quick positioning and save installation time.


Detachable bottom cover

With only opening decoration plate, installers can connect piping and wires. The triangle logo on bottom of casing can help to position mounting plate.


Wider tubing space

It is more convenient and save installation time to extend operation space for connecting pipe and wires.


Easy & quick repair motor

It can realize motor dismounting and maintenance without disassembling evaporator.


2-way piping design

The indoor unit offers the possibility of left and right piping direction, easy for installation.


Total enclosed design

The panel could be lifted up when power on and move back when power off.


Integrative structure design

The optimized design integrates the bottom base, drain pan and frame casing together so as to level up product reliability and lower vibration.


Integrative valve cover

This valve cover is designed to cover both wiring terminal block and stop valves so as to enhance protect effect with nice design.

Blue fin

The hydrophilic aluminum foil makes condensing water flow smoothly so guarantee the better performance with anti-corrosion effect.


Easy clean design

The indoor front panel is easy to wash and the air flaps are easy to detach without any special tools for quick cleaning.

Performance


Super match

The innovative SUPERMATCH range realizes universal indoor & outdoor 100% free combination,which make management of sales,warehouse and spare parts much more easier and more efficient.

A-PAM DC inverter

A-PAM inverter technology is the upgrade of 180°sine wave inverter , it adopts additional momental control to decrease the vibration in the low compressor frequency and also contribute to great energy saving.

180° sine wave DC inverter

180° sine wave DC inverter control technology , guarantee the reliable comfort and energy saving

-30°C heating

A special design for heating in cold winter even at -30°C with rotary compressor,DC motor,optimized bottom plate,electric heating wire and special defrosting programme etc.

-25°C heating

A special design for heating in cold winter even at -25°C with rotary compressor,DC motor,optimized bottom plate,electric heating wire and special defrosting programme etc.

-15°C heating

A special design for heating in cold winter even at -15°C with rotary compressor, etc.

-20°C cooling

Special design for heating even at lowest ambient temperature -20°C with high frequency rotary compressor,optimized refrigerant system and special defrosting programme etc.

-15°C cooling

Special design for heating even at lowest ambient temperature -15°C with high frequency rotary compressor,optimized refrigerant system and special defrosting programme etc.

-10°C cooling

Special design for cooling even at lowest ambient temperature -10 C with high frequency rotary compressor, optimized refrigerant system and special defrosting program etc.

10°C heating maintenance

It is possible to set the system to switch on when indoor temp. drop below 10°C,thus avoiding pipes frozen , and provide winter protection for unoccupied summer house,garages and basements.

Wide voltage for inverter

The inverter unit can start up from 150V and operate in a wide voltage range from 150V~264V.

Auto restart

The function permits automatic return to previous operation conditions after a sudden power break.


Electrical deicer

The outdoor bottom plate is equipped with a special designed electrical heating wire to deicer in the cold winter.

24 hours timer

Use the timer function to set on, or off, or from on to off, or from off to on etc, within 24 hours.


DC motor

DC motor ensures more reliable operation with much higher energy saving and lower noise.


Warm start

when the unit start working at heating mode,or change from cooling mode to heating mode,the unit will not blow or blow at super low speed in order to avoid cold air disturbance.


Long life reliable PCB

Haier PCB is tested 96 hours under hard enviroment temperature 85 C & moisture 85%, this test condition is more or less 10 years under normal condition.


Outdoor 6 steps fan speed

The outdoor is designed with 6 steps of fan speed, the fan speed can be automatically adjusted according to the intelligent control of ambient sensor and tubing sensor so that optimize the heat exchanging effect and improve energy efficiency.


Outdoor 7 steps fan speed

The outdoor is designed with 7 steps of fan speed, the fan speed can be automatically adjusted according to the intelligent control of ambient sensor and tubing sensor so that optimize the heat exchanging effect and improve energy efficiency.


Indoor 5 steps fan speed

The indoor can be remote controlled with 5 steps of fan speed:powerful/high/middle/low/quiet, which offer more choice for you to get comfort airflow.

3 minutes protection

The 3 minutes protection of the compressor can avoid some damages to it and makes the compressor have a longer life.


Smart defrosting

Haier smart defrost process is only performed when needed which reduces energy waste by eliminating the unneeded defrosting process.Enjoy maximum comfort in heating operation by reducing defrosting time.

Models Line-up

Type	Series	Refrigerant Type	Remote Controller	9K	12K		15K	18K	24K	Outdoor
SEASONAL HIGH R32	New Dawn	R32		 A+++/A+++	 A+++/A++					
	New Nebula Green	R32		 A+++/A++	 A+++/A++			 A++/A++		
SEASONAL HIGH	Crystal	R410A		 A+++/A++	 A++/A++					
	Nebula plus	R410A		 A++/A++	 A++/A++			 A++/A++		
SEASONAL SUPER MATCH	Nebula	R410A		 A++/A+	 A++/A+		 A++/A+	 A++/A+	 A++/A+	
	Brezza	R410A		 A++/A+	 A++/A+		 A++/A+	 A++/A+	 A++/A+	
	Console	R410A		 A/A	 A/A					
SEASONAL BASIC	New Tundra	R410A		 A++/A+	 A++/A+			 A++/A+	 A++/A	
Cabinet	New Cabinet	R410A							 A++/A+	
AIR 4 SEASON	Air Cube	/	/							

Benefits

Series	Model (indoor unit)	Model (outdoor unit)	Smart					Comfort							Comfort							Performance									
			Wi-Fi control	Ecopilot-human sensor	Ecopilot-light sensor	Wired controller transfer kit	On-Off card	Super quiet	Comfortable sleep	3D airflow	Long distance air supplying	Intelligent air	Carpet airflow	Auto horizontal airflow (two motors)	Auto horizontal airflow (one motor)	Double horizontal flaps airflow	Auto vertical airflow	DIY auto mode	Auto mode	Quiet mode	Precise temp control 0.5℃	Super match	A-PAM DC inverter	180° sine wave DC inverter	-30℃ heating	-25℃ heating	-15℃ cooling	-15℃ heating	-20℃ cooling	-10℃ cooling	10℃heating maintenance
Dawn	AS09DCAHRA	1U09JEDFRA	√	√	√	○	√	√	√	√	√	√			√		√	√		√	√		√					√		√
	AS12DCAHRA	1U12JECFRA	√	√	√	○	√	√	√	√	√	√			√		√	√		√	√		√					√		√
Nebula Green	AS25S2SN1FA	1U25S2SQ1FA	√			○	√	√	√	√	√	√			√		√	√		√			√			√	√				√
	AS35S2SN1FA	1U35S2SQ1FA	√			○	√	√	√	√	√	√			√		√	√		√			√			√	√				√
	AS50S2SN1FA	1U50S2SR1FA	√			○	√	√	√	√	√	√			√	√	√	√		√			√			√	√				√
Crystal	AS09CB1HRA	1U09QE7ERA-S	√				√	√	√	√	√	√		√			√	√		√			√			√	√				√
	AS12CB1HRA	1U12QE7ERA-S	√				√	√	√	√	√	√		√			√	√		√			√			√	√				√
Nebula plus	AS09NB2HRA	1U09QE3ERA	√			○	√	√	√	√	√	√			√		√	√		√		√	√			√	√				√
	AS12NC2HRA	1U12QE3ERA	√			○	√	√	√	√	√	√			√		√	√		√		√	√			√	√				√
	AS18ND2HRA	1U18RE3ERA	√			○	√	√	√	√	√	√			√	√	√	√		√		√	√			√	√				√
Nebula	AS09NS1HRA-WU AS09NS1HRA-GU	1U09BS3ERA	√			○	√	√	√	√	√	√			√		√	√		√		√	√					√		√	√
	AS12NS1HRA-WU AS12NS1HRA-GU	1U12BS3ERA	√			○	√	√	√	√	√	√			√		√	√		√		√	√					√		√	√
	AS15NS1HRA-WU AS15NS1HRA-GU	1U15BS3ERA	√			○	√	√	√	√	√	√			√		√	√		√		√	√					√		√	√
	AS18NS1HRA-WU AS18NS1HRA-GU	1U18FS2ERA(S)	√			○	√	√	√	√	√	√			√	√	√	√		√		√	√					√		√	√
	AS24NS1HRA-WU AS24NS1HRA-GU	1U24GS1ERA	√			○	√	√	√	√	√	√			√	√	√	√		√		√	√					√		√	√
Brezza	AS09BS4HRA	1U09BS3ERA	○			○	√	√	√		√	√					√	√		√		√	√					√		√	
	AS12BS4HRA	1U12BS3ERA	○			○	√	√	√		√	√					√	√		√		√	√					√		√	
	AS15BS4HRA	1U15BS3ERA	○			○	√	√	√		√	√					√	√		√		√	√					√		√	
	AS18BS4HRA	1U18FS2ERA(S)	○			○	√	√	√		√	√				√	√	√		√		√	√					√		√	
	AS24BS4HRA	1U24GS1ERA	○			○	√	√	√		√	√				√	√	√		√		√	√					√		√	
Console	AF09AS1ERA	1U09BS3ERA					√	√	√		√		√						√	√		√	√					√		√	
	AF12AS1ERA	1U12BS3ERA					√	√	√		√		√						√	√		√	√					√		√	
Tundra	AS09TA2HRA	1U09BE8ERA						√	√			√							√	√				√				√			
	AS12TA2HRA	1U12BE8ERA						√	√			√							√	√				√				√			
	AS18TD2HRA	1U18EE8ERA						√	√		√	√							√	√				√				√			
	AS24TD2HRA	1U24RE8ERA						√	√		√	√							√	√				√				√			
Cabinet	AP24DF1HRA	1U24SE3ERA	√					√	√	√	√			√				√	√	√		√	√					√		√	√

√ : Standard ○ : Optional

Benefits

Series	Model (indoor unit)	Model (outdoor unit)	Performance													Friendly									Health						Display		
			Wide voltage for inverter	DC motor	24 hours timer	Electrical deicer	Auto restart	3 minutes protection	Smart defrosting	Indoor 5 steps fan speed	Outdoor 6 steps fan speed	Outdoor 7 steps fan speed	Long life reliable PCB	Warm start	Easy support clip	Wider tubing Space	Easy mounting plate	Detachable bottom Cover	Easy & quick repair motor	Total enclosed design	Integrative structure design	Integrative valve cover	2-way piping design	Easy clean design	Blue fin	Nano-aqua	Evaporator self-cleaning	Exquisite filter	Anti-mold filter	Negative ion filter	DRY function	Consealed LED display	Double 8 display	Self-diagnosis
Dawn	AS09DCAHRA	1U09JEDFRA	√	√	√	○	√	√	√	√		√	√	√	√	√	√	√	√	√	√	√	√	√	√		√	√			√	√		√
	AS12DCAHRA	1U12JECFRA	√	√	√	○	√	√	√	√		√	√	√	√	√	√	√	√	√	√	√	√	√	√		√	√			√	√		√
Nebula Green	AS25S2SN1FA	1U25S2SQ1FA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√		√	√	○	○	√	√		√
	AS35S2SN1FA	1U35S2SQ1FA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√		√	√	○	○	√	√		√
	AS50S2SN1FA	1U50S2SR1FA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√		√	√	○	○	√	√		√
Crystal	AS09CB1HRA	1U09QE7ERA-S	√	√	√	○	√	√	√	√	√		√	√							√	√		√	√	√	√	√			√	√		√
	AS12CB1HRA	1U12QE7ERA-S	√	√	√	○	√	√	√	√	√		√	√							√	√		√	√	√	√	√			√	√		√
Nebula plus	AS09NB2HRA	1U09QE3ERA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√	√	√	√	○	○	√	√		√
	AS12NC2HRA	1U12QE3ERA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√	√	√	√	○	○	√	√		√
	AS18ND2HRA	1U18RE3ERA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√	√	√	√	○	○	√	√		√
Nebula	AS09NS1HRA-WU AS09NS1HRA-GU	1U09BS3ERA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√	√	√	√	○	○	√	√		√
	AS12NS1HRA-WU AS12NS1HRA-GU	1U12BS3ERA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√	√	√	√	○	○	√	√		√
	AS15NS1HRA-WU AS15NS1HRA-GU	1U15BS3ERA	√	√	√	○	√	√	√	√	√		√	√	√				√		√	√	√	√	√	√	√	√	○	○	√	√		√
	AS18NS1HRA-WU AS18NS1HRA-GU	1U18FS2ERA(S)	√	√	√		√	√	√	√	√		√	√	√				√		√	√	√	√	√	√	√	√	○	○	√	√		√
	AS24NS1HRA-WU AS24NS1HRA-GU	1U24GS1ERA	√	√	√		√	√	√	√	√		√	√	√				√		√	√	√	√	√	√	√	√	○	○	√	√		√
Brezza	AS09BS4HRA	1U09BS3ERA	√	√	√		√	√	√	√	√		√	√	√				√		√	√	√	√	√		√	√	○	○	√		√	√
	AS12BS4HRA	1U12BS3ERA	√	√	√		√	√	√	√	√		√	√	√				√		√	√	√	√	√		√	√	○	○	√		√	√
	AS15BS4HRA	1U15BS3ERA	√	√	√		√	√	√	√	√		√	√	√				√		√	√	√	√	√		√	√	○	○	√		√	√
	AS18BS4HRA	1U18FS2ERA(S)	√	√	√		√	√	√	√	√		√	√	√				√		√	√	√	√	√		√	√	○	○	√		√	√
	AS24BS4HRA	1U24GS1ERA	√	√	√		√	√	√	√	√		√	√	√				√		√	√	√	√	√		√	√	○	○	√		√	√
Console	AF09AS1ERA	1U09BS3ERA	√	√	√		√	√	√	√	√		√	√								√		√	√		√			√	√		√	√
	AF12AS1ERA	1U12BS3ERA	√	√	√		√	√	√	√	√		√	√								√		√	√		√			√	√		√	√
Tundra	AS09TA2HRA	1U09BE8ERA	√		√		√	√	√	√	√		√	√	√				√		√		√	√	√		√		○	○	√	√		√
	AS12TA2HRA	1U12BE8ERA	√		√		√	√	√	√	√		√	√	√				√		√		√	√	√		√		○	○	√	√		√
	AS18TD2HRA	1U18EE8ERA	√	√	√		√	√	√	√	√		√	√	√				√		√		√	√	√		√		○	○	√	√		√
	AS24TD2HRA	1U24RE8ERA	√	√	√		√	√	√	√	√		√	√	√				√		√	√	√	√	√		√		○	○	√	√		√
Cabinet	AP24DF1HRA	1U24SE3ERA	√	√	√		√	√	√	√	√		√	√								√		√	√		√	√			√	√		√

√ : Standard ○ : Optional

Dawn

Wi-Fi (standardl)
Visible fashion, invisible comfort

A+++/A+++

Wi-Fi control

Control your air conditioning system with smart phone or tablet, which can connect internet.

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 15dB(A) with the specialized QUIET setting. (refer to 9k)

Ecopilot-human sensor

Automatically adjust operation frequency and modes to save energy, improve comfort and convenience by monitoring human location, movements, absence with 2 human activity sensors.

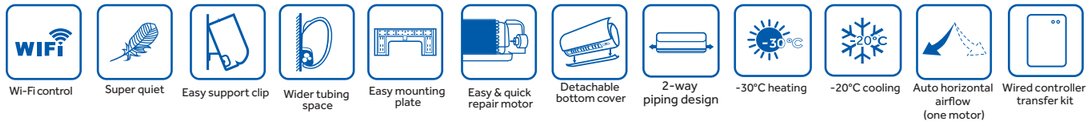
Ecopilot-light sensor

The tempera ture could be automatically adjusted and energy saving operation by the intelligent sensors.

-30°C heating

A special design for heating in cold winter even at -30°C with rotary compressor, DC motor, optimized bottom plate, electric heating wire and special defrosting programme etc.

09/12K



Model		Indoor Outdoor	AS09DCAHRA 1U09JEDFRA	AS12DCAHRA 1U12JECFRA
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	8870(3410-11940)	11940(4090-14670)
	Nominal (Min.~Max.)	kW	2.6(1.0-3.5)	3.5(1.2-4.3)
Energy efficiency(average climate)	SEER/EER	Energy Saving	8.5/4.0	8.5/4.0
Energy class - Cooling			A+++	A+++
Cooling Pdesign capacity(35°C)		kW	2.6	3.5
Power input - Cooling	Nominal (Min.~Max.)	kW	0.65(0.3-1.2)	0.875(0.37-1.3)
Annual energy consumption - Cooling		kWh/a	106	132
Heating Capacity	Nominal (Min.~Max.)	Btu/h	10920(3750-18430)	14330(4440-19790)
	Heating @ -7°C	Btu/h	8020	10070
	Nominal (Min.~Max.)	kW	3.2(1.1-5.4)	4.2(1.3-5.8)
	Heating @ -7°C	kW	2.35	2.95
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	5.1/4.00	4.6/4.0
	SCOP(Warm/Cold climate)		6.25/3.51	5.3/3.3
Energy class - Heating	Average/warm/cold		A+++/A+++/A	A++/A+++/A
Heating Pdesign capacity (-10°C)		kW	2.6	3.2
Power input - Heating	Nominal (Min.~Max.)	kW	0.80(0.48-1.60)	1.05(0.55-1.80)
Annual energy consumption - Heating		kWh/a	716	973
Operating limits (cooling)	Min.~Max.	°C	21-35°C(in)/-20-43°C(out)	21-35°C(in)/-20-43°C(out)
Operating limits (heating)	Min.~Max.	°C	10-27°C(in)/-30-24°C(out)	10-27°C(in)/-30-24°C(out)
Power supply	Ph/V/Hz		1/230/50	1/230/50
Power supply (position)			outdoor	outdoor
40H FCL (set)	*just for reference		153	153
Indoor				
Net dimension	W/D/H	mm	980/212/318	980/212/318
Package dimension	W/D/H	mm	1059/289/407	1059/289/407
Net/Shipping weight		kg	11.8	11.8
Air flow(cooling/heating)	Max.	m^3/h	650	700
Sound power level	Cooling (Hi)	dB	54	56
	Heating (Hi)	dB	54	56
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	34/29/25/15	35/30/26/16
	Heating (Hi/Mid/Lo/So)	dB(A)	34/29/25/15	35/30/26/16
Moisture removal		$10^{-3}m^3/h$	1.2	1.6
Outdoor				
Compressor			Hitachi	Hitachi
Net dimension	W/D/H	mm	820/338/614	820/338/614
Package dimension	W/D/H	mm	963/413/685	963/413/685
Net/Shipping weight		kg	36.5	36.5
Air flow(cooling/heating)	Max.	m^3/h	2100	2100
Sound power level	Hi	dB	61	62
Sound pressure level	Hi	dB(A)	45	46
Running current	Max.	A	8.2	8.6
Refrigerant type	R410A/R32		R32	R32
Refrigerant charge	R410A/R32	g	950	950
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52
	Max. pipe length/height	m	15/10	15/10
	Max. pipe length without additional charge	m	7	7
	additional charge	g/m	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website: http://www.haierac.com

Nebula Green

Wi-Fi (standard)

Care of your health with high performance

A+++/A++

Wi-Fi control

Control your air conditioning system with smart phone or tablet, which can connect internet.

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 20dB(A) with the specialized QUIET setting. (refer to 9k)

Long distance air supplying

The indoor unit is improved by the optimized motor, fan and air flue so as to provide long distance airflow with 12m+ maximum. (refer to 18K)

Auto horizontal airflow (one motor)

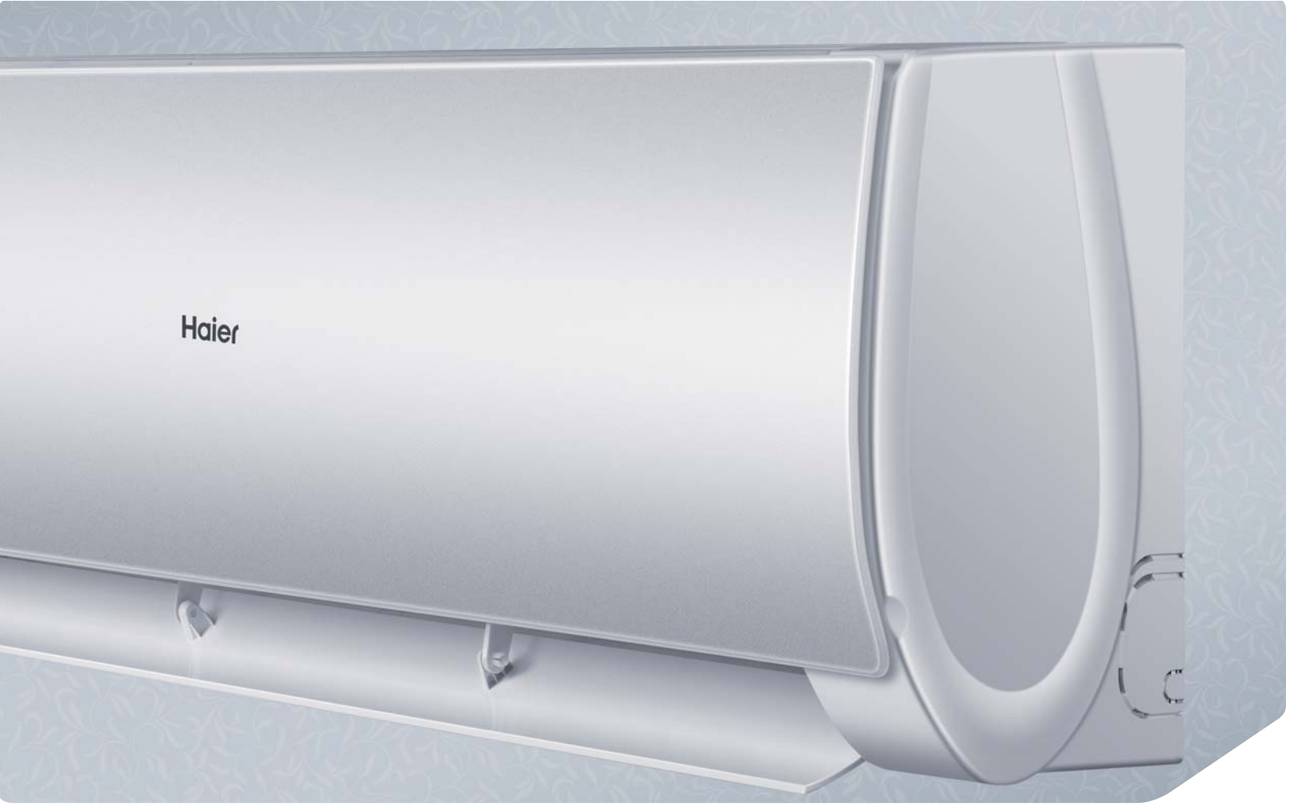
With one special step motor to adjust the vertical flaps moving horizontally and automatically, it can realize 5 positions with the same directions to offer more comfort airflow.

09/12/18K

Wi-Fi control · Super quiet · Easy support clip · Easy & quick repair motor · 2-way piping design · A-PAM DC inverter · 3D airflow · Long distance air supplying · -25°C heating · -15°C cooling · Super match · Auto horizontal airflow (one motor) · Wired controller transfer kit

Model		Indoor Outdoor	AS25S2SN1FA 1U25S2SQ1FA	AS35S2SN1FA 1U35S2SQ1FA	AS50S2SN1FA 1U50S2SR1FA
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	8870(2730-13310)	12280(3410-18080)	17740(4780-23890)
	Nominal (Min.~Max.)	kW	2.6(0.8-3.9)	3.6(1.0-5.3)	5.2(1.4-7.0)
Energy efficiency(average climate)	SEER/EER	Energy Saving	8.5/4.33	8.5/4.0	7.4/3.61
Energy class - Cooling			A+++	A+++	A++
Cooling Pdesign capacity(35°C)		kW	2.6	3.6	5.2
Power input - Cooling	Nominal (Min.~Max.)	kW	0.60(0.20-1.30)	0.9(0.30-1.50)	1.44(0.50-2.25)
Annual energy consumption - Cooling		kWh/a	107	148	246
Heating Capacity	Nominal (Min.~Max.)	Btu/h	12280(2730-20470)	15350(3410-20470)	20470(5120-27300)
	Heating @ -7°C	Btu/h	7500	9550	14670
	Nominal (Min.~Max.)	kW	3.6(0.8-6.0)	4.5(1.0-6.0)	6.0(1.5-8.0)
	Heating @ -7°C	kW	2.2	2.8	4.3
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	4.6/4.30	4.6/4.10	4.6/3.80
	SCOP(Warm/Cold climate)		5.30/3.65	5.89/3.50	6.00/3.50
Energy class - Heating	Average/warm/cold		A++/A+++/A	A++/A+++/A	A++/A+++/A
Heating Pdesign capacity (-10°C)		kW	2.5	3.2	4.9
Power input - Heating	Nominal (Min.~Max.)	kW	0.84(0.40-1.50)	1.1(0.50-1.60)	1.58(0.60-2.35)
Annual energy consumption - Heating		kWh/a	761	974	1491
Operating limits (cooling)	Min.~Max.	°C	21-35°C(in)/-15-43°C(out)	21-35°C(in)/-15-43°C(out)	21-35°C(in)/-15-43°C(out)
Operating limits (heating)	Min.~Max.	°C	10-27°C(in)/-25-24°C(out)	10-27°C(in)/-25-24°C(out)	10-27°C(in)/-25-24°C(out)
Power supply	Ph/V/Hz		1/230/50	1/230/50	1/230/50
Power supply (position)			outdoor	outdoor	outdoor
40H FCL (set)	*just for reference		198	188	137
Indoor					
Net dimension	W/D/H	mm	855/200/280	900/210/310	997/230/322
Package dimension	W/D/H	mm	954/279/355	991/313/399	1085/329/403
Net/Shipping weight		kg	10/12.2	11.5/14	13/16
Air flow(cooling/heating)	Max.	m^3/h	600	700	900
Sound power level	Cooling (Hi)	dB	54	56	57
	Heating (Hi)	dB	55	57	58
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	35/30/25/20	38/33/29/22	41/37/33/28
	Heating (Hi/Mid/Lo/So)	dB(A)	36/31/26/21	39/34/30/23	42/38/34/29
Moisture removal		$10^{-3}m^3/h$	1.2	1.6	2
Outdoor					
Compressor			Mitsubishi	Mitsubishi	Mitsubishi
Net dimension	W/D/H	mm	780/290/597	780/290/597	890/353/697
Package dimension	W/D/H	mm	923/393/680	923/393/680	1046/460/780
Net/Shipping weight		kg	35.5/38.5	35.5/38.5	45.5/49.5
Air flow(cooling/heating)	Max.	m^3/h	1900	2200	2800
Sound power level	Hi	dB	59/60	61/62	65/66
Sound pressure level	Hi	dB(A)	47/48	48/49	53/54
Running current	Max.	A	6.7	7.2	10.2
Refrigerant type	R410A/R32		R32	R32	R32
Refrigerant charge	R410A/R32	g	800	900	1050
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52	12.7
	Max. pipe length/height	m	15/10	15/10	25/15
	Max. pipe length without additional charge	m	7	7	10
	additional charge	g/m	20	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website: http://www.haierac.com



Crystal

Wi-Fi (standard)
Control your climate easily from wherever

A+++/A++

Wi-Fi control

Control your air conditioning system with smart phone or tablet, which can connect internet.

Super quiet

Optimize the noise control technology,such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 18dB(A) with the specialized QUIET setting. (refer to 9k)

Nano-aqua

Haier unique Aqua generator can ionize water molecules into H^+ and O_2^- as well as small cluster of water, which can keep your skin moist and have the effect of air purification.

A-PAM inverter technology

A-PAM inverter technology is the upgrade of 180° sine wave inverter, it adopts additional momental control to decrease the vibration in the low compressor frequency and also contribute to great energy saving.

3D airflow

The 3D airflow is able to deliver the airflow horizontally and vertically, so bring the feeling like nature wind.

09/12K

Wi-Fi control · Super quiet · Nano-aqua · A-PAM DC inverter · 3D airflow · -25°C heating · -15°C cooling · 10°C heating maintenance · Comfortable sleep · Electrical deicer · Auto horizontal airflow (two motors)

Model		Indoor Outdoor	AS09CB1HRA 1U09QE7ERA-S	AS12CB1HRA 1U12QE7ERA-S
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	9350(4430-12290)	12400(4430-14670)
	Nominal (Min.~Max.)	kW	2.7 (1.3-3.6)	3.6(1.3-4.3)
Energy efficiency(average climate)	SEER/EER	Energy Saving	7.75/4.3	6.9/4
Energy class - Cooling			A++	A++
Cooling Pdesign capacity(35°C)		kW	2.6	3.5
Power input - Cooling	Nominal (Min.~Max.)	kW	0.65(0.32-1.3)	0.90(0.36-1.40)
Annual energy consumption - Cooling		kWh/a	118	178
Heating Capacity	Nominal (Min.~Max.)	Btu/h	11930(4780-12970)	13640(4780-15700)
	Heating @ -7°C	Btu/h	7820	9630
	Nominal (Min.~Max.)	kW	3.0(1.4-3.8)	4.0(1.4-4.6)
	Heating @ -7°C	kW	2.29	2.82
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	4.6/4.20	4.6/4.00
	SCOP(Warm/Cold climate)		5.65/3.27	5.79/3.21
Energy class - Heating	Average/warm/cold		A++/A+++/B	A++/A+++/B
Heating Pdesign capacity (-10°C)		kW	2.6	3.2
Power input - Heating	Nominal (Min.~Max.)	kW	0.77(0.32-1.40)	1. 05(0.34-1.48)
Annual energy consumption - Heating		kWh/a	791	971
Operating limits (cooling)	Min.~Max.	°C	21-35°C(in)/-15-43°C(out)	21-35°C(in)/-15-43°C(out)
Operating limits (heating)	Min.~Max.	°C	10-27°C(in)/-25-24°C(out)	10-27°C(in)/-25-24°C(out)
Power supply	Ph/V/Hz		1/230/50	1/230/50
Power supply (position)			indoor	indoor
40H FCL (set)	*just for reference		200	200
Indoor				
Net dimension	W/D/H	mm	907/198/309	907/198/309
Package dimension	W/D/H	mm	1015/290/413	1015/290/413
Net/Shipping weight		kg	11.5/14	11.5/14
Air flow(cooling/heating)	Max.	m^3/h	600	650
Sound power level	Cooling (Hi)	dB	57	58
	Heating (Hi)	dB	58	59
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	36/32/26/18	37/33/27/20
	Heating (Hi/Mid/Lo/So)	dB(A)	37/32/26/19	38/33/27/21
Moisture removal		$10^{-3}m^3/h$	1.2	1.6
Outdoor				
Compressor			Panasonic	Panasonic
Net dimension	W/D/H	mm	780/275/595	780/275/595
Package dimension	W/D/H	mm	910/390/619	910/390/619
Net/Shipping weight		kg	37.5/38.5	37.5/38.5
Air flow(cooling/heating)	Max.	m^3/h	2100	2100
Sound power level	Hi	dB	63/64	63/64
Sound pressure level	Hi	dB(A)	52/53	53/54
Running current	Max.	A	7.1	7.1
Refrigerant type	R410A/R32		R410A	R410A
Refrigerant charge	R410A/R32	g	1100	1100
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52
	Max. pipe length/height	m	15/10	15/10
	Max. pipe length without additional charge	m	7	7
	additional charge	g/m	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website: http://www.haierac.com

Nebula plus

Wi-Fi (standard)
Care of your health with high performance

A++/A++

Wi-Fi control

Control your air conditioning system with smart phone or tablet, which can connect internet.

Super quiet

Optimize the noise control technology,such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 20dB(A) with the specialized QUIET setting. (refer to 9k)

Long distance air supplying

The indoor unit is improved by the optimized motor, fan and air flue so as to provide long distance airflow with 20m+ maximum. (refer to Nebula 24k)

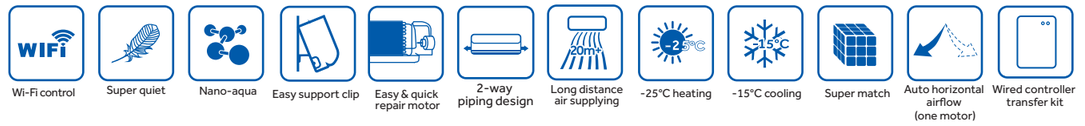
Nano-aqua

Haier unique Aqua generator can ionize water molecules into H^+ and O_2^- as well as small cluster of water, which can keep your skin moist and have the effect of air purification.

Auto horizontal airflow (one motor)

With one special step motor to adjust the vertical flaps moving horizontally and automatically, it can realize 5 positions with the same directions to offer more comfort airflow.

09/12/18K



Model		Indoor Outdoor	AS09NB2HRA 1U09QE3ERA	AS12NC2HRA 1U12QE3ERA	AS18ND2HRA 1U18RE3ERA
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	8870(3410-11950)	11940(4100-14670)	17740(5120-19110)
	Nominal (Min.~Max.)	kW	2.6(1.0-3.5)	3.5(1.2-4.3)	5.2(1.5-5.6)
Energy efficiency(average climate)	SEER/EER	Energy Saving	7.2/4.1	7.0/3.85	7.0/3.61
Energy class - Cooling			A++	A++	A++
Cooling Pdesign capacity(35°C)		kW	2.6	3.5	5.2
Power input - Cooling	Nominal (Min.~Max.)	kW	0.63(0.30-1.30)	0.91(0.30-1.35)	1.44(0.50-2.25)
Annual energy consumption - Cooling		kWh/a	126	175	259
Heating Capacity	Nominal (Min.~Max.)	Btu/h	10920(3750-18430)	13650(4430-19800)	19790(5460-20480)
	Heating @ -7°C	Btu/h	7160	9550	14670
	Nominal (Min.~Max.)	kW	3.2(1.1-5.4)	4.0(1.3-5.8)	5.8(1.6-6.0)
	Heating @ -7°C	kW	2.1	2.8	4.3
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	4.6/4.00	4.6/4.00	4.6/3.80
	SCOP(Warm/Cold climate)		5.65/3.53	5.90/3.50	6.00/3.50
Energy class - Heating	Average/warm/cold		A++/A+++/A	A++/A+++/A	A++/A+++/A
Heating Pdesign capacity (-10°C)		kW	2.4	3.2	4.9
Power input - Heating	Nominal (Min.~Max.)	kW	0.80(0.5-1.3)	1.0(0.50-1.45)	1.53(0.60-2.35)
Annual energy consumption - Heating		kWh/a	730	974	1491
Operating limits (cooling)	Min.~Max.	°C	21-35°C(in)/-15-43°C(out)	21-35°C(in)/-15-43°C(out)	21-35°C(in)/-15-43°C(out)
Operating limits (heating)	Min.~Max.	°C	10-27°C(in)/-25-24°C(out)	10-27°C(in)/-25-24°C(out)	10-27°C(in)/-25-24°C(out)
Power supply	Ph/V/Hz		1/230/50	1/230/50	1/230/50
Power supply (position)			outdoor	outdoor	outdoor
40H FCL (set)	*just for reference		198	188	137
Indoor					
Net dimension	W/D/H	mm	855/200/280	900/210/310	997/230/322
Package dimension	W/D/H	mm	954/279/355	991/313/399	1085/329/403
Net/Shipping weight		kg	10/12.2	11.5/14	13/16
Air flow(cooling/heating)	Max.	m^3/h	600	700	900
Sound power level	Cooling (Hi)	dB	53	55	60
	Heating (Hi)	dB	54	56	61
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	35/30/25/20	38/33/29/22	41/37/33/28
	Heating (Hi/Mid/Lo/So)	dB(A)	36/31/26/21	39/34/30/23	42/38/34/29
Moisture removal		$10^{-3}m^3/h$	1.2	1.6	2
Outdoor					
Compressor			Panasonic	Panasonic	Sanyo
Net dimension	W/D/H	mm	780/290/597	780/290/597	890/353/697
Package dimension	W/D/H	mm	923/393/680	923/393/680	1046/460/780
Net/Shipping weight		kg	35.5/38.5	35.5/38.5	45.5/49.5
Air flow(cooling/heating)	Max.	m^3/h	2100	2200	2800
Sound power level	Hi	dB	62/63	63/64	70/71
Sound pressure level	Hi	dB(A)	49/50	52/53	53/54
Running current	Max.	A	5.8	6.4	10.2
Refrigerant type	R410A/R32		R410A	R410A	R410A
Refrigerant charge	R410A/R32	g	1100	1100	1350
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52	12.7
	Max. pipe length/height	m	15/10	15/10	25/15
	Max. pipe length without additional charge	m	7	7	10
	additional charge	g/m	20	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website: http://www.haierac.com

Nebula

Wi-Fi (standardl)

Care of your health with high performance

A++/A+

Wi-Fi control

Control your air conditioning system with smart phone or tablet, which can connect internet.

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 20dB(A) with the specialized QUIET setting. (refer to 9k)

Long distance air supplying

The indoor unit is improved by the optimized motor, fan and air flue so as to provide long distance airflow with 20m+ maximum. (refer to Nebula 24k)

Nano-aqua

Haier unique Aqua generator can ionize water molecules into H^+ and O_2^- as well as small cluster of water, which can keep your skin moist and have the effect of air purification.

Auto horizontal airflow (one motor)

With one special step motor to adjust the vertical flaps moving horizontally and automatically, it can realize 5 positions with the same directions to offer more comfort airflow.

09/12/15/18/24K

Wi-Fi control | Super quiet | Easy support clip | Easy & quick repair motor | 2-way piping design | Nano-aqua | 3D airflow | Long distance air supplying | -15°C heating | -10°C cooling | Super match | Auto horizontal airflow (one motor) | Wired controller transfer kit

Model		Indoor Outdoor	AS09NS1HRA-WU AS09NS1HRA-GU 1U09BS3ERA	AS12NS1HRA-WU AS12NS1HRA-GU 1U12BS3ERA	AS15NS1HRA-WU AS15NS1HRA-GU 1U15BS3ERA	AS18NS1HRA-WU AS18NS1HRA-GU 1U18FS2ERA(S)	AS24NS1HRA-WU AS24NS1HRA-GU 1U24GS1ERA
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	9210(2730-11600)	12290(3410-14330)	15010(4430-17060)	17740(4440-23200)	23890(7500-29010)
	Nominal (Min.~Max.)	kW	2.7 (0.80-3.40)	3.6(1.00-4.20)	4.4(1.3~5.0)	5.2(1.30-6.80)	7.0(2.20-8.50)
Energy efficiency(average climate)	SEER/EER	Energy Saving	6.4/3.80	6.1/3.60	6.9/3.8	6.2/3.40	6.1/3.21
Energy class - Cooling			A++	A++	A++	A++	A++
Cooling Pdesign capacity(35°C)		kW	2.7	3.6	4.4	5.2	7
Power input - Cooling	Nominal (Min.~Max.)	kW	0.71(0.35-1.30)	1.00(0.37-1.35)	1.16(0.41-1.9)	1.53(0.4-2.25)	2.18(0.45-2.65)
Annual energy consumption - Cooling		kWh/a	148	207	223	293	401
Heating Capacity	Nominal (Min.~Max.)	Btu/h	9560(3420-15700)	12630(3750-18430)	18430(4780-20480)	19790(4770-23550)	25600(8190-33460)
	Heating @ -7°C	Btu/h	7350	9900	12000	15700	17060
	Nominal (Min.~Max.)	kW	2.8(1.00-4.60)	3.7(1.100-5.40)	5.4(1.7-6.0)	5.8(1.40-6.90)	7.5(2.40-9.80)
	Heating @ -7°C	kW	2.15	2.9	3.5	4.6	5
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	4.0/4.10	4.0/3.90	4.2/4.00	4.0/3.41	4.0/3.41
	SCOP(Warm/Cold climate)		4.32/-	4.31/-	4.32/-	4.30/-	4.30/-
Energy class - Heating	Average/warm/cold		A+/A+/-	A+/A+/-	A+/A+/-	A+/A+/-	A+/A+/-
Heating Pdesign capacity (-10°C)		kW	2.4	3.2	4.0	5.2	5.6
Power input - Heating	Nominal (Min.~Max.)	kW	0.68(0.36-1.30)	0.95(0.38-1.40)	1.35(0.42-2.2)	1.70(0.41-2.35)	2.20(0.48-2.95)
Annual energy consumption - Heating		kWh/a	830	1114	1333	1832	1979
Operating limits (cooling)	Min.~Max.	°C	21-35/-10-43	21-35/-10-43	21-35/-10-43	21-35/-10-43	21-35/-10-43
Operating limits (heating)	Min.~Max.	°C	10-27/-15-24	10-27/-15-24	10-27/-15-24	10-27/-15-24	10-27/-15-24
Power supply	Ph/V/Hz		1/230/50	1/230/50	1/230/50	1/230/50	1/230/50
Power supply (position)			outdoor	outdoor	outdoor	outdoor	outdoor
40H FCL (set)	*just for reference		240	240	188	160	135
Indoor							
Net dimension	W/D/H	mm	855/200/280	855/200/280	900/210/310	997/230/322	1115/243/336
Package dimension	W/D/H	mm	954/279/355	954/279/355	991/313/399	1085/329/403	1206/342/418
Net/Shipping weight		kg	10/12.2	10/12.2	11.5/14	13/16	16/19.6
Air flow(cooling/heating)	Max.	m^3/h	600	650	700	900	1200
Sound power level	Cooling (Hi)	dB	55	54	55	57	62
	Heating (Hi)	dB	56	55	56	58	63
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	38/33/26/20	39/34/27/23	40/35/31/22	44/40/35/28	47/43/37/30
	Heating (Hi/Mid/Lo/So)	dB(A)	39/33/26/23	40/34/27/24	41/36/32/23	45/40/35/33	48/44/38/36
Moisture removal		$10^{-3}m^3/h$	1.2	1.6	1.8	2	2.8
Outdoor							
Compressor			Panasonic	Panasonic	Mitsubishi	Mitsubishi	Mitsubishi
Net dimension	W/D/H	mm	780/245/540	780/245/540	780/290/597	810/288/688	860/308/730
Package dimension	W/D/H	mm	920/351/620	920/351/620	923/393/680	949/406/760	995/420/813
Net/Shipping weight		kg	28.4/31.4	30.4/33.4	36.5/40	43/45.5	49/52
Air flow(cooling/heating)	Max.	m^3/h	1900	1700	2100	2200	2900
Sound power level	Hi	dB	61/62	62/63	63/64	63/64	67/68
Sound pressure level	Hi	dB(A)	48/52	50/53	52/53	52/54	54/56
Running current	Max.	A	5.8	6.4	8.6	10.2	13.1
Refrigerant type	R410A/R32		R410A	R410A	R410A	R410A	R410A
Refrigerant charge	R410A/R32	g	750	1000	1100	1300	1600
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35	6.35	6.35	9.52
	Gas side diameter	mm / inch	9.52	9.52	9.52	12.7	15.88
	Max. pipe length/height	m	15/10	15/10	15/10	25/15	25/15
	Max. pipe length without additional charge	m	7	7	7	10	10
	additional charge	g/m	20	20	20	50	50

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website: http://www.haierac.com

Brezza

Wi-Fi (optional)
Like the brezza whispering at your ear

A++/A+

Super quiet

Optimize the noise control technology,such as the compressor frequency adjustment,fan speed control and air flue design decreasing the noise level even lowest to 20dB(A) with the specialized QUIET setting. (refer to 9k)

A-PAM inverter technology

A-PAM inverter technology is the upgrade of 180° sine wave inverter, it adopts additional momental control to decrease the vibration in the low compressor frequency and also contribute to great energy saving.

Intelligent air

Airflow automatically upward when cooling or downward when heating to spread air automatically throughout the large room while without blowing directly to human body.

09/12/15/18/24K

Super quiet | Easy support clip | Easy & quick repair motor | 2-way piping design | Intelligent air | -15°C heating | -10°C cooling | Super match | Wired controller transfer kit

Model		Indoor Outdoor	AS09BS4HRA 1U09BS3ERA	AS12BS4HRA 1U12BS3ERA	AS15BS4HRA 1U15BS3ERA	AS18BS4HRA 1U18FS2ERA(S)	AS24BS4HRA 1U24GS1ERA
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	9210(2730-11600)	12290(3420-14330)	15010(4430-17060)	17740(4440-23200)	23890(7500-29010)
	Nominal (Min.~Max.)	kW	2.7 (0.80-3.40)	3.6(1.00-4.20)	4.4(1.3-5.0)	5.2(1.30-6.80)	7.0(2.20-8.50)
Energy efficiency(average climate)	SEER/EER	Energy Saving	6.4/3.80	6.1/3.60	6.9/3.8	6.2/3.40	6.1/3.21
Energy class - Cooling			A++	A++	A++	A++	A++
Cooling Pdesign capacity(35°C)		kW	2.7	3.6	4.4	5.2	7.00
Power input - Cooling	Nominal (Min.~Max.)	kW	0.71(0.35-1.30)	1.00(0.37-1.35)	1.16(0.41-1.9)	1.53(0.4-2.25)	2.18(0.45-2.65)
Annual energy consumption - Cooling		kWh/a	148	207	223	293	401
Heating Capacity	Nominal (Min.~Max.)	Btu/h	9560(3420-15700)	12630(3750-18430)	18430(4780-20480)	19790(4770-23550)	25600(8190-33460)
	Heating @ -7°C	Btu/h	7350	9900	12000	15700	17060
	Nominal (Min.~Max.)	kW	2.8(1.00-4.60)	3.7(1.100-5.40)	5.4(1.4-6.0)	5.8(1.40-6.90)	7.5(2.40-9.80)
	Heating @ -7°C	kW	2.15	2.9	3.5	4.6	5.0
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	4.0/4.10	4.0/3.90	4.2/4.00	4.0/3.41	4.0/3.41
	SCOP(Warm/Cold climate)		4.32/-	4.31/-	4.32/-	4.30/-	4.30/-
Energy class - Heating	Average/warm/cold		A+/A+/-	A+/A+/-	A+/A+/-	A+/A+/-	A+/A+/-
Heating Pdesign capacity (-10°C)		kW	2.4	3.2	4.0	5.2	5.6
Power input - Heating	Nominal (Min.~Max.)	kW	0.68(0.36-1.30)	0.95(0.38-1.40)	1.35(0.42-2.2)	1.70(0.41-2.35)	2.20(0.48-2.95)
Annual energy consumption - Heating		kWh/a	830	1114	1333	1832	1979
Operating limits (cooling)	Min.~Max.	°C	21-35/-10-43	21-35/-10-43	21-35/-10-43	21-35/-10-43	21-35/-10-43
Operating limits (heating)	Min.~Max.	°C	10-27/-15-24	10-27/-15-24	10-27/-15-24	10-27/-15-24	10-27/-15-24
Power supply	Ph/V/Hz		1/230/50	1/230/50	1/230/50	1/230/50	1/230/50
Power supply (position)			outdoor	outdoor	outdoor	outdoor	outdoor
40H FCL (set)	*just for reference		240	240	188	160	135
Indoor							
Net dimension	W/D/H	mm	855/200/280	855/200/280	900/210/310	997/230/322	1115/243/336
Package dimension	W/D/H	mm	954/279/355	954/279/355	991/313/399	1085/329/403	1206/342/418
Net/Shipping weight		kg	10/12.2	10/12.2	11.5/14	13/16	16/19.6
Air flow(cooling/heating)	Max.	m^3/h	600	650	700	900	1200
Sound power level	Cooling (Hi)	dB	52	54	55	57	62
	Heating (Hi)	dB	53	55	56	58	63
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	38/33/26/20	39/34/27/23	40/35/31/22	44/40/35/28	47/43/37/30
	Heating (Hi/Mid/Lo/So)	dB(A)	39/33/26/23	40/34/27/24	41/36/32/23	45/40/35/33	48/44/38/36
Moisture removal		$10^{-3}m^3/h$	1.2	1.6	1.8	2	2.8
Outdoor							
Compressor			Panasonic	Panasonic	Mitsubishi	Mitsubishi	Mitsubishi
Net dimension	W/D/H	mm	780/245/540	780/245/540	780/290/597	810/288/688	860/308/730
Package dimension	W/D/H	mm	920/351/620	920/351/620	923/393/680	949/406/760	995/420/813
Net/Shipping weight		kg	28.4/31.4	30.4/33.4	36.5/40	43/45.5	49/52
Air flow(cooling/heating)	Max.	m^3/h	1900	1700	2100	2200	2900
Sound power level	Hi	dB	61/62	62/63	63/64	63/64	67/68
Sound pressure level	Hi	dB(A)	48/52	50/53	52/53	52/54	54/56
Running current	Max.	A	5.8	6.4	8.6	10.2	13.1
Refrigerant type	R410A/R32		R410A	R410A	R410A	R410A	R410A
Refrigerant charge	R410A/R32	g	750	1000	1100	1300	1600
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35	6.35	6.35	9.52
	Gas side diameter	mm / inch	9.52	9.52	9.52	12.7	15.88
	Max. pipe length/height	m	15/10	15/10	15/10	25/15	25/15
	Max. pipe length without additional charge	m	7	7	7	10	10
	additional charge	g/m	20	20	20	50	50

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website: http://www.haierac.com

Console

Carpet airflow brings comfort heating **A/A**

Carpet airflow

The special designed function for console type make the possibility of airflow blowing along with the floor level,so provide the extreme comfort like warm carpet especially in the winter bed room.

Easy select the air outlet way by manual switch

Air outlet selection switch

upward position — This setting blows air from upper outlet only.

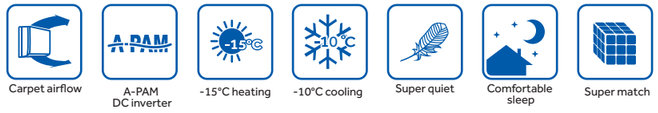
downward position — This setting automatically decides a blow pattern depending on mode and conditions.

Automatic carpet airflow control programm

When the air outlet selection switch is at downward position,the unit can realize carpet airflow under below conditions:

- In heating mode, when room temp. is reaching setting temp. the unit will blow both upward and downward.
- In cooling mode,when the unit just start or there is big gap between room temp. and setting temp.,the unit will blow both upward and downward.

09/12K



Model		Indoor Outdoor	AF09AS1ERA 1U09BS3ERA	AF12AS1ERA 1U12BS3ERA
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	8530(4430-10240)	11940(4780-13640)
	Nominal (Min.~Max.)	kW	2.5(1.3-3.0)	3.5(1.4-4.0)
Energy efficiency(average climate)	SEER/EER	Energy Saving	5.3/3.3	5.3/3.2
Energy class - Cooling			A	A
Cooling Pdesign capacity(35°C)		kW	2.5	3.4
Power input - Cooling	Nominal (Min.~Max.)	kW	0.75(0.35-1.30)	1.10(0.37-1.55)
Annual energy consumption - Cooling		kWh/a	165	224
Heating Capacity	Nominal (Min.~Max.)	Btu/h	9560(4780-10920)	12970(4780-13990)
	Heating @ -7°C	Btu/h	7500	9000
	Nominal (Min.~Max.)	kW	2.8(1.4-3.2)	3.8(1.4-4.1)
	Heating @ -7°C	kW	2.2	2.64
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	3.8/3.70	3.8/3.40
	SCOP(Warm/Cold climate)		4.80/-	4.80/-
Energy class - Heating	Average/warm/cold		A/A++/-	A/A++/-
Heating Pdesign capacity (-10°C)		kW	2.5	3
Power input - Heating	Nominal (Min.~Max.)	kW	0.76(0.33-1.30)	1.11(0.38-1.55)
Annual energy consumption - Heating		kWh/a	1005	1360
Operating limits (cooling)	Min.~Max.	°C	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.~Max.	°C	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)
Power supply	Ph/V/Hz		1/230/50	1/230/50
Power supply (position)			outdoor	outdoor
40H FCL (set)	*just for reference		188	188
Indoor				
Net dimension	W/D/H	mm	720/253/640	720/253/640
Package dimension	W/D/H	mm	787/307/722	787/307/722
Net/Shipping weight		kg	17/19.5	17.5/20
Air flow(cooling/heating)	Max.	m^3/h	550	650
Sound power level	Cooling (Hi)	dB	53	55
	Heating (Hi)	dB	54	56
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	41/39/34/29	42/40/37/31
	Heating (Hi/Mid/Lo/So)	dB(A)	42/40/35/30	43/41/38/32
Moisture removal		$10^{-3}m^3/h$	1.2	1.6
Outdoor				
Compressor			Panasonic	Panasonic
Net dimension	W/D/H	mm	780/245/540	780/245/540
Package dimension	W/D/H	mm	920/351/620	920/351/620
Net/Shipping weight		kg	28.4/31.4	30.4/33.4
Air flow(cooling/heating)	Max.	m^3/h	1900	1700
Sound power level	Hi	dB	61/62	62/63
Sound pressure level	Hi	dB(A)	51/52	52/53
Running current	Max.	A	5.7	7.1
Refrigerant type	R410A/R32		R410A	R410A
Refrigerant charge	R410A/R32	g	750	1000
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52
	Max. pipe length/height	m	15/10	15/10
	Max. pipe length without additional charge	m	7	7
	additional charge	g/m	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website: http://www.haierac.com

Tundra

Reliable quality, Value for money

A++/A+

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 20dB(A) with the specialized QUIET setting. (refer to 9k)

Intelligent air

Airflow automatically upward when cooling or downward when heating to spread air automatically throughout the large room while without blowing directly to human body.

Comfortable sleep

The setting temperature and the indoor noise can be adjusted to a more comfortable level when you set the "sleep mode" during night sleep.

09/12/18/24K

Super quiet | Easy support clip | Easy & quick repair motor | 2-way piping design | Intelligent air | Comfortable sleep | -15°C heating

Model		Indoor Outdoor	AS09TA2HRA 1U09BE8ERA	AS12TA2HRA 1U12BE8ERA	AS18TD2HRA 1U18EE8ERA	AS24TD2HRA 1U24RE8ERA
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	8870(3410-11950)	12280(3410-14000)	17060(4100-21500)	22520(6820-27640)
	Nominal (Min.~Max.)	kW	2.6(1.00-3.50)	3.6(1.00-4.10)	5.0(1.20-6.30)	6.6(2.00-8.10)
Energy efficiency(average climate)	SEER/EER	Energy Saving	6.2/3.21	6.1/2.81	6.2/3.24	6.2/3.01
Power input - Cooling			A++	A++	A++	A++
Cooling Pdesign capacity(35°C)		kW	2.60	3.60	5.00	6.60
Power input - Cooling	Nominal (Min.~Max.)	kW	0.810(0.30-1.40)	1.12(0.30-1.60)	1.54(0.40-2.25)	2.19 (0.60-2.70)
Annual energy consumption - Cooling		kWh/a	147	206	282	373
Heating Capacity	Nominal (Min.~Max.)	Btu/h	9550(3410-15020)	12630(3750-17750)	20470(3580-22860)	25250(8190-29690)
	Heating @ -7°C	Btu/h	7167	8190	14500	16720
	Nominal (Min.~Max.)	kW	2.8(1.00-4.40)	3.7(1.10-5.20)	6.0(1.05-6.70)	7.4(2.40-8.70)
	Heating @ -7°C	kW	2.1	2.4	4.25	4.9
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	4.0/3.61	4.0/3.61	4.0/3.72	3.9/3.61
	SCOP(Warm/Cold climate)		4.70/-	4.80/-	5.18/-	5.00/-
Energy class - Heating	Average/warm/cold		A+/A++/-	A+/A++/-	A+/A+++/-	A/A++/-
Heating Pdesign capacity (-10°C)		kW	2.4	2.8	4.8	5.6
Power input - Heating	Nominal (Min.~Max.)	kW	0.78(0.30-1.50)	1.02(0.50-1.60)	1.61(0.40-2.35)	2.05 (0.7-2.9)
Annual energy consumption - Heating		kWh/a	841	1039	1679	2011
Operating limits (cooling)	Min.~Max.	°C	21-35/10-43	21-35/10-43	21-35/10-43	21-35/10-43
Operating limits (heating)	Min.~Max.	°C	10-27/-15-24	10-27/-15-24	10-27/-15-24	10-27/-15-24
Power supply	Ph/V/Hz		1/230/50	1/230/50	1/230/50	1/230/50
Power supply (position)			Indoor	Indoor	Indoor	outdoor
40H FCL (set)	*just for reference		240	240	204	140
Indoor						
Net dimension	W/D/H	mm	820/195/280	820/195/280	1008/225/318	1008/225/318
Package dimension	W/D/H	mm	909/279/355	909/279/355	1085/329/403	1085/329/403
Net/Shipping weight		kg	8.8/11.0	9.0/11.2	12/15	12/15
Air flow(cooling/heating)	Max.	m^3/h	500	550	900	1100
Sound power level	Cooling (Hi)	dB	53	54	57	60
	Heating (Hi)	dB	54	55	58	61
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	36/30/26/20	37/32/28/20	40/37/35/28	42/38/36/28
	Heating (Hi/Mid/Lo/So)	dB(A)	36/30/26/20	37/32/28/20	40/37/35/28	42/38/36/28
Moisture removal		$10^{-3}m^3/h$	1.2	1.6	2.0	2.8
Outdoor						
Compressor			Hitachi	Mitsubishi	Mitsubishi	Mitsubishi
Net dimension	W/D/H	mm	780/245/540	780/245/540	780/245/640	890/353/697
Package dimension	W/D/H	mm	920/351/620	920/351/620	920/351/720	1046/460/780
Net/Shipping weight		kg	25.5/28.5	26/29	33.5/37	51/56
Air flow(cooling/heating)	Max.	m^3/h	1600	1700	2200	2900
Sound power level	Hi	dB	61/62	62/63	63/64	65/66
Sound pressure level	Hi	dB(A)	49/50	50/51	51/52	52/53
Running current	Max.	A	6.7	7.1	10.2	13.5
Refrigerant type	R410A/R32		R410A	R410A	R410A	R410A
Refrigerant charge	R410A/R32	g	780	780	1200	1450
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52	12.7	12.7
	Max. pipe length/height	m	15/10	15/10	25/15	25/15
	Max. pipe length without additional charge	m	7	7	10	10
	additional charge	g/m	20	20	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website : http://www.haierac.com

Cabinet

Wi-Fi (standard)
Enjoy long distance airflow with full comfort

A++/A+

Wi-Fi control

Control your air conditioning system with smart phone or tablet, which can connect internet.

Super quiet

Optimize the noise control technology,such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 26dB(A) with the specialized QUIET setting.

Vertical airflow

Super long vertical blowing cabinet design, supplying fast comfort for big space

Nano-aqua

Haier unique Aqua generator can ionize water molecules into H^+ and O_2^- as well as small cluster of water, which can keep your skin moist and have the effect of air purification.

3D airflow

The 3D airflow is able to deliver the airflow horizontally and vertically, so bring the feeling like nature wind.

24K

Wi-Fi control | Super quiet | Nano-aqua | A-PAM DC inverter | 3D airflow | -15°C heating | -10°C cooling | 10°C heating maintenance | Comfortable sleep | Electrical deicer | Auto horizontal airflow (two motors)

Model		Indoor Outdoor	AP24DF1HRA 1U24SE3ERA
Cooling Capacity	Nominal (Min.~Max.)	Btu/h	24580(3072-30384)
	Nominal (Min.~Max.)	kW	7.2(0.9-8.9)
Energy efficiency(average climate)	SEER/EER	Energy Saving	7.0/3.50
Energy class - Cooling			A++
Cooling Pdesign capacity(35°C)		kW	7.2
Power input - Cooling	Nominal (Min.~Max.)	kW	2.06(0.31-3.7)
Annual energy consumption - Cooling		kWh/a	360
Heating Capacity	Nominal (Min.~Max.)	Btu/h	30726(3072-35847)
	Heating @ -7°C	Btu/h	16626
	Nominal (Min.~Max.)	kW	9.0(0.9-10.5)
	Heating @ -7°C	kW	4.87
Energy efficiency	SCOP/COP(Average climate)	Energy Saving	4.01/3.41
	SCOP(Warm/Cold climate)		4.89/-
Energy class - Heating	Average/warm/cold		A+/A++/-
Heating Pdesign capacity (-10°C)		kW	5.5
Power input - Heating	Nominal (Min.~Max.)	kW	1.964(0.49-3.02)
Annual energy consumption - Heating		kWh/a	1921
Operating limits (cooling)	Min.~Max.	°C	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.~Max.	°C	10-27°C(in)/-15-24°C(out)
Power supply	Ph/V/Hz		1/230/50
Power supply (position)			outdoor
40H FCL (set)	*just for reference		61
Indoor			
Net dimension	W/D/H	mm	377/407/1810
Package dimension	W/D/H	mm	525/555/1935
Net/Shipping weight		kg	40/50
Air flow(cooling/heating)	Max.	m^3/h	1200
Sound power level	Cooling (Hi)	dB	60
	Heating (Hi)	dB	61
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	42/37/34/26
	Heating (Hi/Mid/Lo/So)	dB(A)	42/37/34/26
Moisture removal		$10^{-3}m^3/h$	4.25
Outdoor			
Compressor			Mitsubishi
Net dimension	W/D/H	mm	920/385/762
Package dimension	W/D/H	mm	1085/487/843
Net/Shipping weight		kg	47/52
Air flow(cooling/heating)	Max.	m^3/h	2500
Sound power level	Hi	dB	69
Sound pressure level	Hi	dB(A)	56
Running current	Max.	A	25.1
Refrigerant type	R410A/R32		R410A
Refrigerant charge	R410A/R32	g	1950
Refrigerant pipe	Liquid side diameter	mm / inch	6.35
	Gas side diameter	mm / inch	12.7
	Max. pipe length/height	m	25/15
	Max. pipe length without additional charge	m	10
	additional charge	g/m	50

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.(DB: Dry Bulb; WB: Wet Bulb)
For detailed information about ERP, please visit our B2B website: http://www.haierac.com

Air Cube

One-stop solution for air quality

Function and Solution

Top touch material

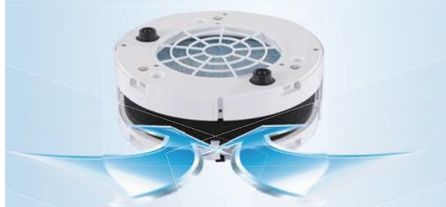
First coupling type anti electric shock to bring health and safe

Natural convection air circulation

Modular design for tailor-made solution and one appliance to solve multiple problems

Touch control &
Smart control

The breeze circulation monitoring system to realize temperature, humidity, PM2.5 and VOC high precision monitoring.



Special suspension structure design makes airflow blowing through filters entirely, so guarantee the purification effects.

Free DIY experience

Humidification module- brings humid wind in dry season

- Humidification without making fog
- No dampness nor mildew to be worried

Dehumidification module-takes wet away in wet season

- First Innovative Smart 360° air flow
- Three layers of silver ion sterilization
- - 4°C-40°C wide temperature range dehumidification
- - 1% high precision humidity monitoring

Purification module- brings healthy and clean air if haze is thick

- **6 layers of filters for thorough air purification**
- Advanced RCD module, catalytic decomposition for eliminating formaldhyde without pollution
- HEPA to remove haze, smoke & pollen. ,the removable of PM2.5 is 99.97% one time

Fragrance module -makes you at ease if you feel tired or when the air is of bad smell

- Pure plant solid fragrance make you at ease
- Nano silver ion sterilization technology

Humidification + Purification Solution

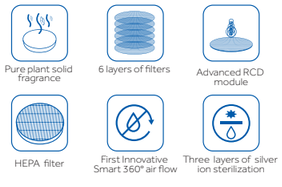
•Humidification without making fog

•HEPA to remove haze, smoke & pollen. , the removable of PM2.5 is 99.97% one time

Purification +Dehumidification Solution

•First Innovative Smart 360° air flow

•Advanced RCD module, catalytic decomposition for eliminating formaldhyde without pollution



Humidification + Dehumidification Solution

•No dampness nor mildew to be worried

•-4°C-40°C wide temperature range dehumidification

Humidification+Purification +Dehumidification Solution

•Humidification without making fog
•First Innovative Smart 360° air flow
•6 layers of filters for thorough air purification
•Pure plant solid fragrance make you at ease

Specification

Air Cube	
Power supply	1PH/220V/50Hz
Power rating	286W
Power input (Max.)	372W
Net weight	21.2kg
Gross weight	29kg
Package dimension	Ø376*376*1083
Application area	<25m²
Length of wire	1.8m

Fragrance	
Air flow	230 m³/h
Sound level	25-50dB(A)
Ingress protection	I

Humidification	
Rated humidification volume	200ml/h
Humidification tank	1.5L
Humidification efficiency rating	A
Sound level	25-42dB(A)
Ingress protection	I

Purification	
CADR (clean air delivery rate)	200m³/h
Removal rate of formaldehyde	94.59%(30m³ testing,2h)
Removal rate of PM2.5	99.6%(30m³ testing,1h)
Anti-bacteria	99.7%(30m³ testing1h)
Efficiency rating	A
Sound level	25-50dB(A)
Ingress protection	I

Dehumidification	
Rated dehumidification capacity	0.41kg/h
Mega-temperature dehumidification capacity	18L/DAY
Dehumidification tank	3L
Refrigerant and charging quantity	R134a 130g
Suction side Max pressure	0.5MPa
Exhaust side Max pressure	1.3MPa
Low pressure side Max pressure	0.5MPa
High pressure side Max pressure	1.3MPa
Max pressure of heat exchanger	2.5MPa
Sound level	45dB(A)
Mega-temperature working codition	30°C, RH80%
Ingress protection	I
Operating temperature range	4-40

Haier
Inspired Living