life reimagined

Hisense Inverter Central Air-conditioning

HiMULTI G SERIES

Full DC, Highly Efficient

Hisense

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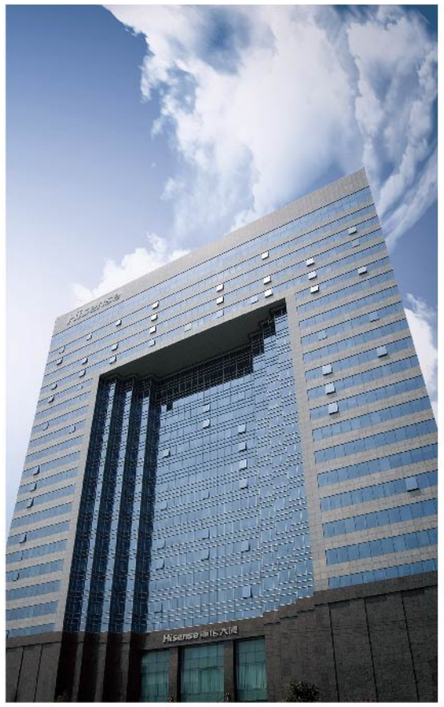
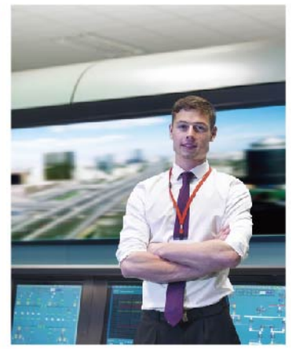
INVERTER R410A Environment-friendly Refrigerant SMART Enjoy What You Want

★ Design and specifications are subject to change without notice. Pictures and diagrams are for reference only and are subject to change without notice.





Commercial Equipment

Real Estate and Property

Information and Communication Industry

Appliances

Multimedia Products

Molds and Industrial Design

Technological Hisense

Hisense is a large electronic information industry corporation of China founded in 1969 and owns Hisense Appliance and Hisense Kelon Appliance these two listed companies. Furthermore, Hisense is the only enterprise group in China which has three well-known trademarks as Hisense, Kelon and Ronshen at the same time.

Hisense adheres to the development strategy as "Technology Support, Steady Operation" and sustains healthy development by taking optimized industrial structure as the base, technological innovation as the drive force, and capital operation as a leverage. In the 21st century, with powerful R&D strength and excellent internationalized management team, Hisense has speeded up the pace of industrial expansion and formed an industrial structure including digital multimedia, home appliances, communications, intelligent information systems, modern real estate and service.

Hi-Multi HISENSE HiQuality

Hisense Hi-Flexi Series stems from Hisense high-quality and high-grade intelligent Commercial Central Air Conditioning. It relies on Hisense high technical platform of inverter-driven central air conditioning and has a brand gene of high-tech and high-quality from the date of birth which perfectly implements Hisense's value concept ----"create perfect, service society".

Highly energy-efficient performance

Highly intelligent and reliable operation

Highly intelligent control system

Hi-Flexi G Series

Full DC Highly Energy-efficient New Experience

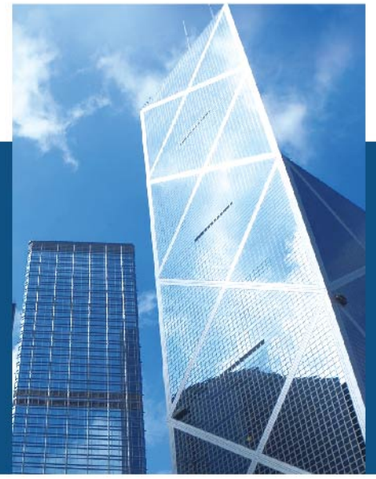
High friendliness degree of user experience

High degree of flexibility in product design and installation

Hi quality, 5G experience! Hisense Hi-Flexi G series inverter central air conditioner adopts full DC inverter technology—all compressors adopt high efficiency DC inverter scroll compressors; fan motors adopt DC variable speed motors, which can bring extraordinary 5G user experience—high energy efficiency performance, high operational reliability , high friendliness degree of user experience, high degree of flexibility in design and installation, and highly intelligent control and management, and fulfills the requirements of air-conditioned comfort degree of different space. The product capacity is from 8HP to 54HP in 2HP increments, various models can serve the government office buildings, factories, shopping malls, schools, hospitals, high-end clubs and other occasions better , which can improve the environmental quality and create a healthy life.

CONTENTS

G1 Highly energy-efficient performance



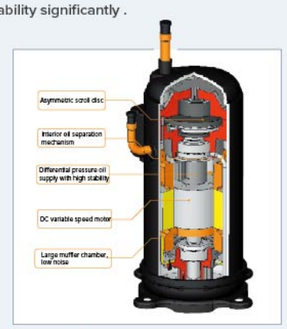
Air conditioning is a big power consumer in our daily life. Authoritative statistics show that the energy consumption of central air conditioning generally accounts for 40 % to 60% in the whole building energy consumption, thus energy saving of air-conditioning has important social significance.

○Hisense Hi-Flexi G series inverter central air conditioner, all the compressors adopt DC variable speed compressors, and all the fan motors adopt DC motors. The leading full-DC inverter control technology and a variety of intelligent energy-saving technologies realize the optimal energy saving performance of G-series.

High efficiency high-pressure chamber scroll compressors

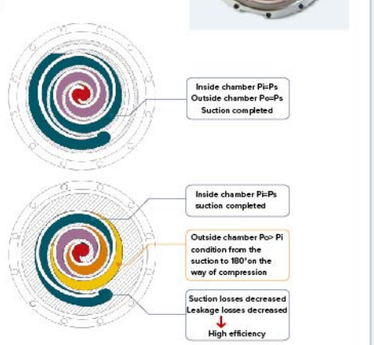
Outdoor units of Hi-Multi G series adopt large capacity high efficiency high-pressure chamber scroll compressors .This type of compressor has an interior oil separation section which improves the oil separation efficiency and avoids the capacity impairment due to excess refrigeration oil in the refrigeration cycle effectively and increases the compressor efficiency and reliability . At the same time， the specially designed structure of scroll disc improves the reliability and stability significantly .

☐ New type scroll compressor



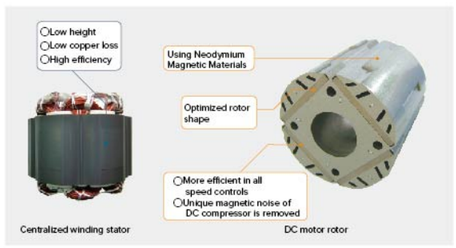
☐ Special scroll disc design

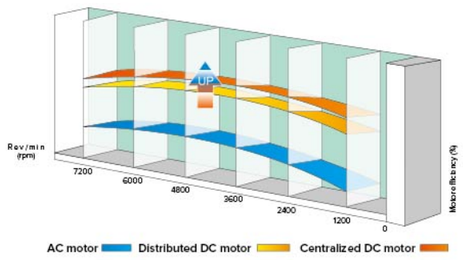
Scroll compressor adopts special structure - asymmetrical design, effectively reduces the refrigerant gas leakage losses in the process of suction and compression ,and enhances operating efficiency and reliability .



☐ Efficient DC variable speed compressor

The compressor stator adopts centralized winding stator that can reduce coil height and copper loss; the compressor rotor adopts the latest neodymium magnetic material (permanent magnet) and optimization of the shape design, improves the overall compressor efficiency dramatically. By the use of DC motor, the energy efficiency of compressor can be improved significantly in the longest running 20-80Hz frequency band. Meanwhile, the compressor rotor is divided into two parts to suppress electromagnetic noise interference and achieve low noise.

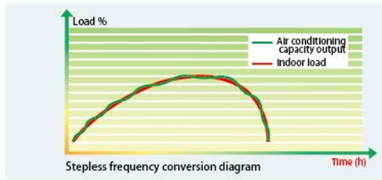




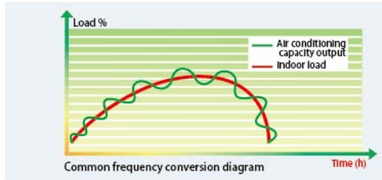
DC inverter compressor technology

☐ Stepless frequency conversion linear control technology

The frequency range of compressor is 10-115Hz; and the adjustment range of the inverter is 20-230Hz; the running speed is adjusted continuously and freely according to the changes in system capacity with higher accuracy. This technique integrated with auto-adaptive control technology automatically adjusts capacity output according to the actual air-conditioning load in order to achieve a smoother curve of temperature fluctuation to satisfy higher requirement of coziness.



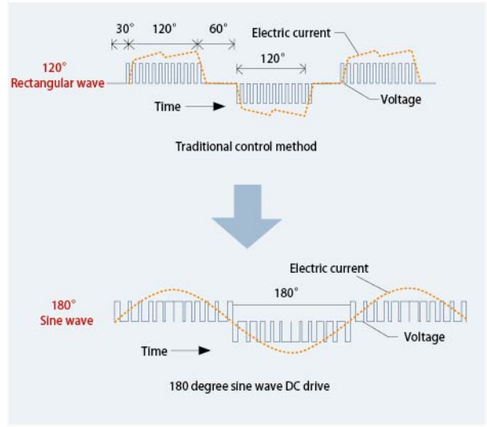
Stepless frequency conversion diagram



Common frequency conversion diagram

☐ Latest 180-degree sine wave DC variable speed drive technology

The inverter controller used is industry- leading , it is the upgrade product of mainstream type IGBT inverter controller with small volume and high precision, and it has internal multi-protection controls (over voltage, under voltage, phase loss, phase error, over-current, overheating, etc.), so the control accuracy and reliability of the inverter are improved dramatically.



Stepless fan speed regulation technology

Outdoor unit fan motor adopts DC variable speed motor which improves the motor efficiency by 40% and reduces the input power significantly. The outdoor unit fan can achieve stepless speed regulation according to the ambient temperature changes.

Streamlined air grille

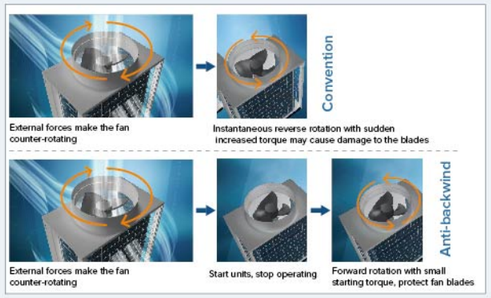
Efficient axial fan

◎Stepless frequency conversion adjustment of the fan

◎The stability of discharge pressure and suction pressure of the compressor is assured;
◎The stability of the indoor unit flow (capacity) dynamic allocation is assured and the fluctuation is reduced;
◎Quick response of control systems is improved, accordingly the stability, durability and reliability of units are assured.

◎Anti-backwind function

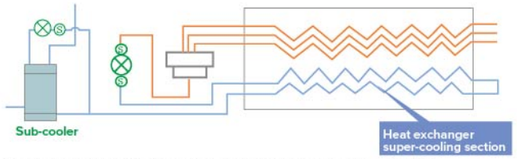
In case that the external forces make outdoor unit fan rotate inversely , the fan will be stopped first when the air conditioner is started , and then the fan will rotate normally in accordance with procedures to protect the blades from damage.



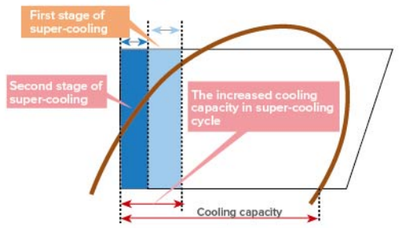
Two-stage super-cooling cycle technology, increase the cooling capacity and pipe length

Adding a super-cooling section in outdoor unit heat exchanger realizes the first stage of super-cooling; an efficient sub-cooler is adopted to realize the second stage of super-cooling, the total super-cooling degree is up to 27℃.

☐ Two-stage super-cooling cycle diagram



☐ Two-stage super-cooling pressure enthalpy diagram



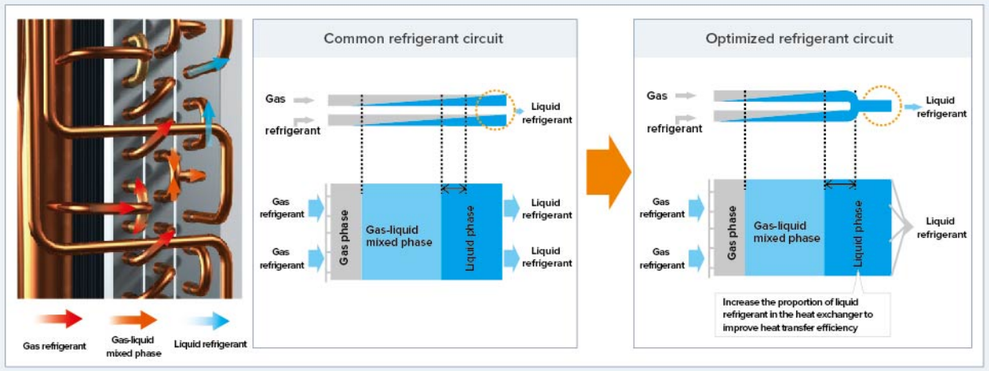
◯ The two-stage super-cooling cycle improves cooling capacity;
◯ The pressure loss of the refrigerant flowing in the pipe is reduced
◯ The Increased super-cooling degree promotes the stable operation of the electronic expansion valve;
◯ The increased super-cooling degree helps increase the total piping length.

New type efficient heat exchanger

New type high-performance heat exchanger adopts efficient thermal conductive Φ7.0mm female screw thread copper pipes and new step fins, which leads to air-flow resistance reduction , even and full heat exchange and heat transfer improvement. Furthermore ,the amount of frost on heat exchanger will decrease quickly in winter ,which improves the heating effect .

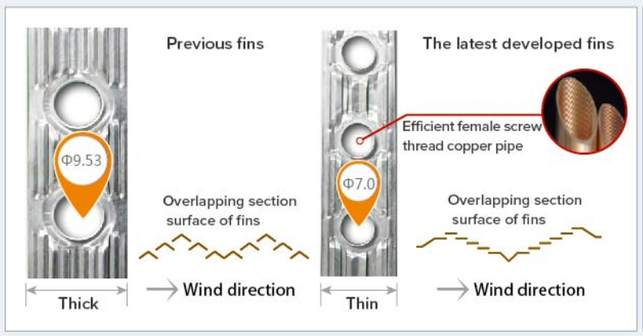
☐ Optimized refrigerant circuit design

Through specially designed refrigerant flow, the efficiency of heat exchanger is more optimized.

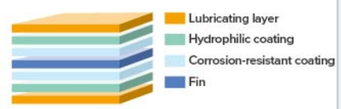


☐ Stepped efficient heat transfer fins

Adopt new type fins and copper pipes which can improve the heat transfer efficiency



Hierarchical diagram of hydrophilic aluminum foil



● Not easy to frost when heating;
● Slow down the corrosion of heat exchanger by corrosive gases;
● Destroying the surface tension of water droplets accelerates the down flow speed of defrost water or condensate water and improves the air conditioning performance.

◯ Central air conditioning is working under partial load most of the time; Hi-Flexi G series optimizes software and systems especially for partial load, making the system more energy efficient at partial load operation.

Smart and precise unit capacity allocation

Tests show that multi-split air conditioning units are most efficient at 40% - 75% partial load operation, and the power consumption touches the bottom. Take 20HP units (double module) as an example, when the units operate under 12HP load, the load distribution of each module: common product is 10HP (full load) +2HP (ultra-low load); Hisense Hi-Flexi G series is 6HP+6 HP (intermediate load).

Hisense Hi-Flexi G Series:

The efficiency will be the highest and the power consumption will be lowest when each module unit is working at 40% - 75% partial load.

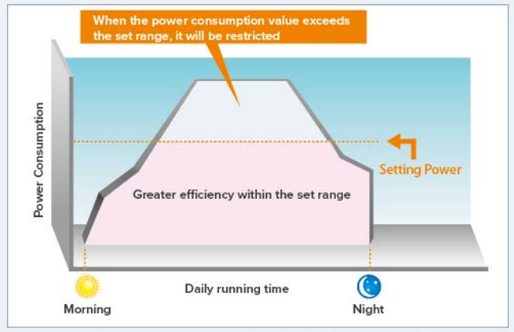
VS

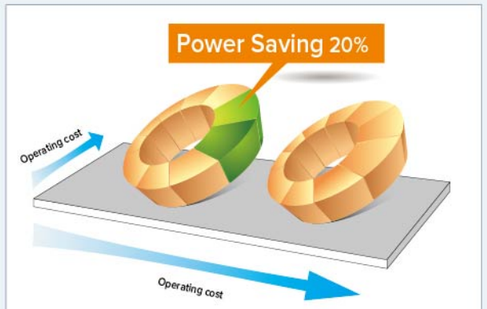
Common product:

In normal operation, the module combination is operated at full load + ultra-low load, which influences the service life of units and consumes more power.

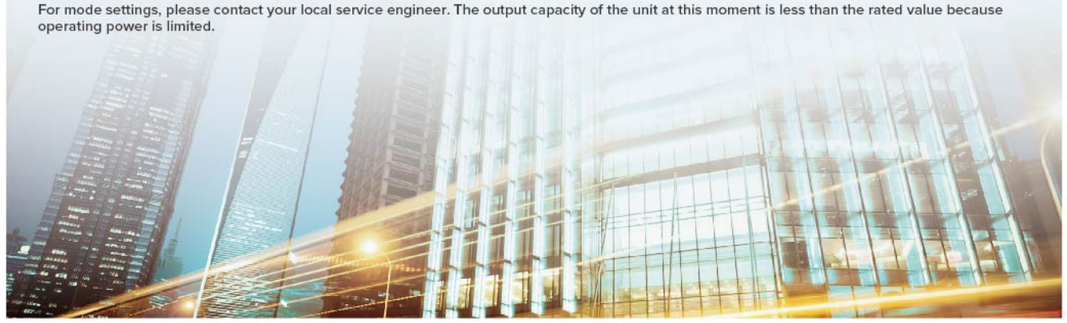
Demand mode (energy saving mode)

The intelligent Demand mode can adjust the air conditioning operation automatically according to peak-valley requirements of electricity while ensuring electricity for daily work. Since it does not affect the use of air conditioning, you can simultaneously enjoy refreshing coolness from air conditioning.





For mode settings, please contact your local service engineer. The output capacity of the unit at this moment is less than the rated value because operating power is limited.



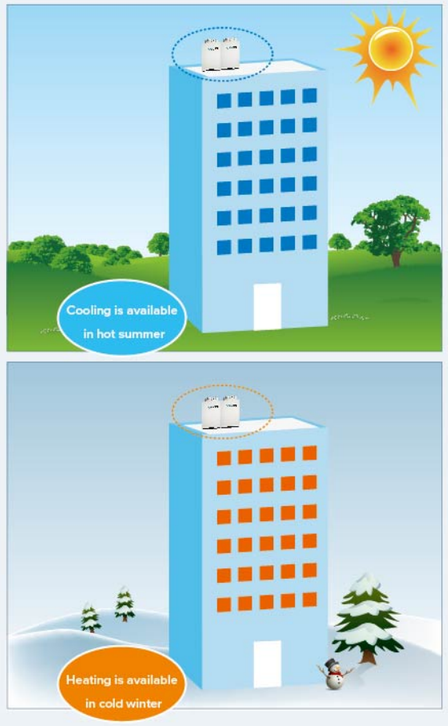
G2 Intelligent and reliable operation

Hisense Hi-Flexi G series innovatively applies a variety of intelligent technology and realizes a series of intelligent operation from component selection to the unit operation. Comprehensive intelligent control capacity ensures Hi quality of the system. Meanwhile, based on the high-end technology support platform of Hisense inverter

Intelligent operation and control of the units

☐ Operation mode control

The units can unify and limit heating and cooling control of the controller to avoid complaints of owners caused by air conditioner setting inconsistency in split rooms during transitional season. For example, when the operating mode is limited, only cooling in hot summer or only heating in cold winter operates.

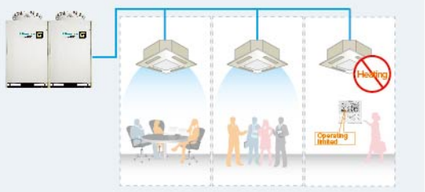


☐ Access Management

There are room cards, access management function settings, which can enable coordinate controls of hotel room management or smart home systems, that is, air conditioning starts working when the card is inserted, and perform the operation mode memorized by the air conditioning to avoid air conditioning waste running.

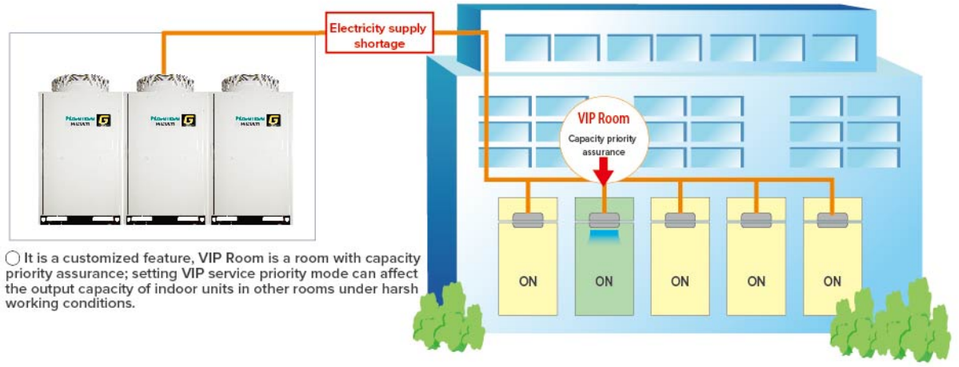
☐"Preconceived" Control

During system operation, if there are some indoor units (mode conflict) are set to different operation modes from the system, "operating limited" will display on these mode conflict indoor units to alert the user, the other units are in normal operation without stopping or alarm.



☐ VIP Service Control

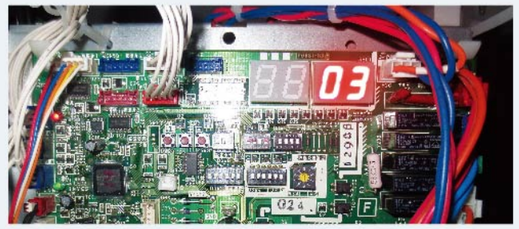
System can make "VIP" mode settings for important rooms; that is, giving priority to ensuring heating and cooling needs of VIP room under special electricity supply circumstances.



○ It is a customized feature, VIP Room is a room with capacity priority assurance; setting VIP service priority mode can affect the output capacity of indoor units in other rooms under harsh working conditions.

☐ Automatic addressing

System can assign indoor unit addresses automatically, it is suitable for the use of multiple indoor units of large system, without manual setting.

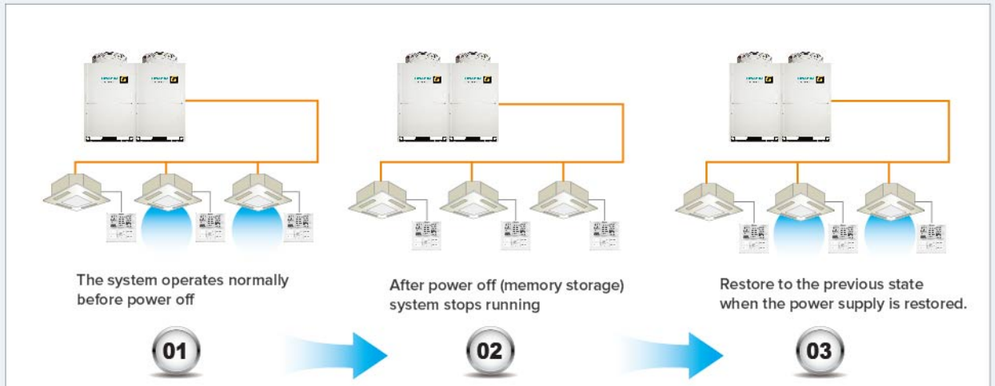


☐ Operating data, fault data displaying

The system can automatically store parameters from different channels and displays in real time. There are four 7-segment high brightness digital tubes to display the real-time fault parameters through adjusting the master PCB buttons of outdoor unit, it is very convenient for after-sales debugging and service.

☐ Auto-restart on power off

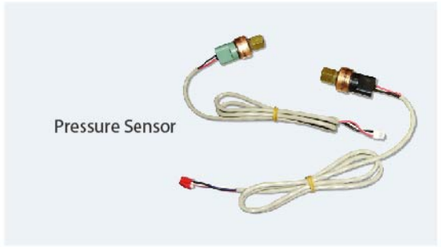
When a long time power failure occurs, the system will automatically store settings memory; after re-powered on, the system can automatically restart (can also be set to start manually), the previous settings can be renewed without being reset ,which makes services more intelligent, and more considerate to users.



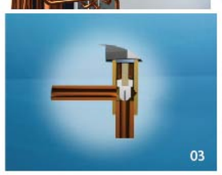
Accurate self-diagnosis and self-control of system pressure and temperature

☐ Fast, accurate pressure sensing technology

System pressure is controlled by the use of precise high & low pressure sensors, which can collect system pressure data in high frequency continuously, and then give real-time feedback of measurement results, then precisely controls output through the master controller at the earliest time.



Combined with compressor frequency control, fan speed, electronic expansion valve opening degree, the pressure sensing technology puts the condensing pressure and evaporating pressure of system in the best condition, so as to ensure the unit more stable running ,more timely protection and longer service life .



01 Compressor frequency control

02 Fan operation control

03 Electronic expansion valve opening degree control

☐ 32-bit MCU and high-speed transmission bus

Adopting 32-bit MCU data processing, together with the high-speed transfer bus can make up to dozens of multitasking perfect signal processing of outdoor unit control, indoor unit control, temperature control, compressor frequency, fan motor speed and switches, etc. simultaneously, while maintaining stability it ensures efficient operation, high-speed and efficient non-polar communications.

32-bit Data processing MCU

☐ Flow Control

Indoor units adopt microcomputer electronic expansion valve, with 2000 stages automatic adjustment function , which can make precise automatic flow adjustment according to indoor actual load with more accurate temperature regulation and better energy saving.

2000 stages Electronic expansion valve

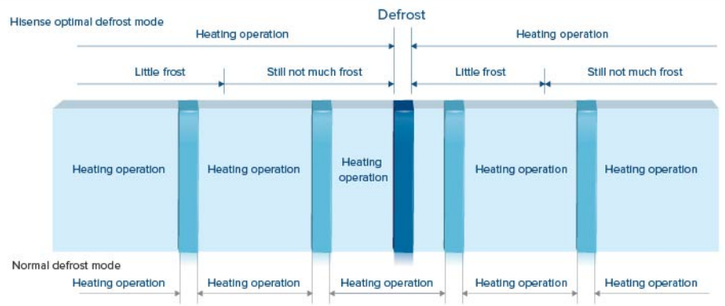
☐ Temperature sensing

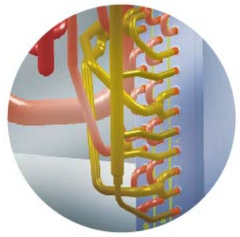
Through multi-point temperature probe, make real-time detection and feedback on outdoor temperature, indoor temperature, output air temperature etc.; make analysis and adjustment of system output through master controller.

Temperature probe

Intelligent defrost mode

The outdoor unit adopts outdoor temperature sensor and heat exchanger temperature sensor to make variable-parameter defrost, accurately grasp the defrost opportunity, and significantly reduce the amount of frost per unit time, only 1/3 of that under ordinary defrost mode.
Meanwhile together with unique bottom anti-frost design structure, "2 in 1" heat exchanger, it can ensure that there is no frost at the bottom of outdoor heat exchanger during winter heating. When defrosting, the mixture of ice and water left along the fins is heated fully to liquid and was discharged through the bottom drain hole, so as to avoid accumulation of frost at the bottom leading to ineffectiveness.





Bottom anti-frost design when heating

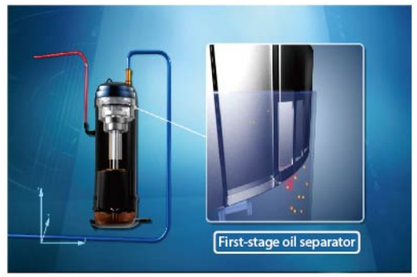
Common multi-split AC defrost mode only refers to Time, outdoor temperature sensor and heat exchanger sensor Temperature, while the pressure defrost mode which Hisense adopts innovatively introduces pressure sensor to sense and measure pressure signal based on the above, through parameters such as Pressure, Temperature and Time it can make variable parameters defrost, accurately grasp the defrost opportunity.

Multiple oil circuit protection

Oil balance between outdoor units is realized through two-stage oil separation technology, double oil control technology, and oil balancing control, which ensures more secure and reliable operation of the system.

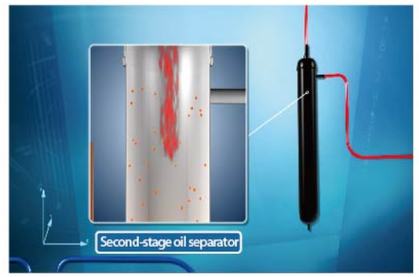
☐ The first-stage oil separation

Make first-stage oil separation through efficient oil separation structure inside high-pressure chamber compressor, only a small amount of oil is brought out of the compressor.



☐ The second-stage oil separation

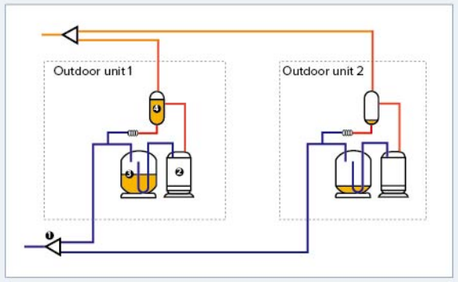
A small amount of oil discharged from the compressor is separated by the second-stage oil separation through large-capacity, high efficiency centrifugal oil separator, the separation efficiency can be over 99%.



☐ The first-stage oil-return control

The accumulator adopts porous oil return technology with a built-in efficient fine strainer; it not only ensures the oil balance between the compressors within the module, but also plays a role in the oil balance between the modules.

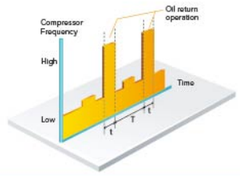
Accumulator



☐ The second-stage oil-return operation

○ The system implements oil-return operation based on the compressor frequency and corresponding operation time, which avoids the oil retention in the indoor heat exchanger and outdoor heat exchanger when the system is running at low load for a long time, and avoids compressor failure due to lack of refrigeration oil. The oil-return operation time is only 60 seconds, after the oil-return control, it will automatically return to the previous operation state.

○ In winter heating, the oil return operation is implemented without conversion of operation mode; the heating effect is more secure.



☐ Oil balancing control between outdoor units

Through adjusting the relationship between the amount of discharge oil and return oil in the compressor, accumulator and the oil separator, it can realize automatic balance of lubricants between the various outdoor units without oil balance pipes, avoid fluctuations of system pressure and temperature caused by oil balance pipe mode, and simplify the construction and improve the operational stability and comfort of system.

Without oil balance piping in outdoor unit, making the oil return more stable, more efficient, and with more convenient installation.

Multiple operation mode, ensure long life and reliable operation

☐ Rotational operation

By rotational operation technique, balance the running time of each outdoor unit module, improve the unit durability, extend the life of the air conditioning system.

☐ Dual backup operation

The first-stage backup operation, that is, as one compressor breaks, another compressor in the same outdoor unit (12HP and above models) can perform an emergency operation.
The second-stage backup operation, in a system above 16HP, if one outdoor unit breaks down, the rest of the outdoor units can perform an emergency operation.

Multiple security protection, ensure safe and stable operation

01 Compressor protection
- ○ Compressor suction
- ○ Discharge pressure protection
- ○ Compression ratio protection
- ○ Discharge temperature protection
- ○ Oil return protection.....

02 System protection
- ○ Suction and discharge pressure protection
- ○ Four-way valve protection
- ○ Indoor and outdoor ambient temperature protection
- ○ Supercooling protection.....

03 Inverter Protection
- ○ Inverter temperature protection
- ○ Voltage Protection

04 Electrical protection
- ○ Lacking phase detect
- ○ Current Protection
- ○ Motor protection
- ○ Lightning protection.....

G3 High degree of user-friendly experience

In order to make the relation between people and air, people and the environment more friendly and natural, Hisense Hi-Flexi G series focuses on user experience in product design and improving the environment - processing and control of air temperature, humidity, speed, cleanliness; moreover, G series pay much attention to the customer's health - fresh air and quiet and customer's convenience in use.

Smart controllers, simple human-machine interaction

Hisense has a variety of controllers with smart and beautiful shape, flexible and easy to use. Users can experience a new sense of comfort and smart by making choice according to their personal needs.

Advocate and practitioner of low-carbon living space

☐ Actively respond to RoHS directive

RoHS is called [Reduction of the following six Hazardous Substances in Electrical and Electronic Equipment]. This directive prohibits the use of the following six hazardous substances in electrical and electronic equipment [lead, mercury, cadmium, hexavalent chromium, poly-brominated diphenyl ethers (PBDE) or (PBB)]. Hisense responds to European RoHS directive actively and carries out a series of procedures and interventions to control hazardous substances. This directive aims to protect human health and ensure recycling and disposal of waste electrical and electronic equipment to meet the environmental requirements.

Substance	RoHS limit value	Typical Test Method
Lead	1000ppm	Wet chemical treatment or X-ray fluorescence
Cadmium	100ppm	Wet chemical treatment or X-ray fluorescence
Hexavalent chrome	1000ppm	Wet chemical treatment or X-ray fluorescence
Mercury	1000ppm	Wet chemical treatment or X-ray fluorescence
PBB/PBDE	1000ppm	GCMS, FTTR, or X-ray fluorescence

☐ Use environment-friendly refrigerant R410A

Hi-Flexi product uses efficient and reliable environment-friendly refrigerant R410A , which is non-toxic to humans and will not damage the Earth's ozone layer, create a comfortable, clean living environment for you.

R410A
Environment-friendly Refrigerant

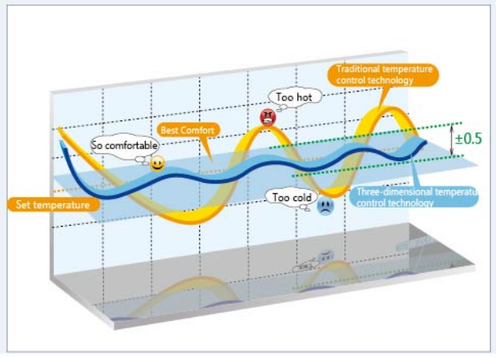
Precise temperature control, comfortable air supply

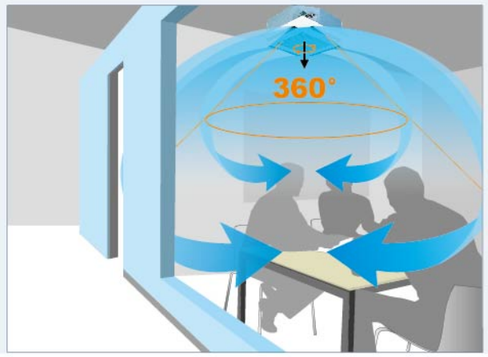
☐ Three-dimensional temperature sensing design

The refrigerant flow is regulated by setting indoor unit supply air temperature sensor, return air temperature sensor, remote control temperature sensor, the air temperature is controlled within the optimum range, satisfying human comfort better by combining with microcomputer controlled high-precision electronic expansion valve of 2000 pulses; while meeting indoor temperature control accuracy of ±0.5℃.

☐ 360°around air supply, more even temperature

Hisense 4-way cassette type indoor unit expands supply air flow to every corner of the interior space through 360 degrees all-around supply air and adjustment of the louver position, which forms all-around surround airflow, without dead angle for air supply and ensures the most comfortable space with more even indoor temperature.





Excellent mute design, achieve ideal quiet environment

☐ Indoor unit noise control

Techniques and installation methods of reducing operating noise of indoor units are researched according to the using occasions, structural features, fan motor, fan blades and duct layout etc., which ensures to provide a most quiet and comfortable air-conditioning environment for the users.

○ Noise values of Slim Ceiling Ducted type AVE-07/09* when running at low speed.

☐ Noise control of outdoor units

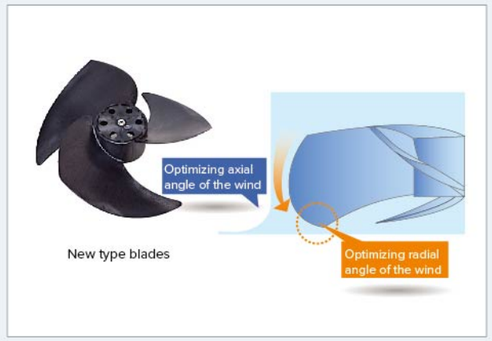
Adopt high quality scroll compressor —— sophisticated manufacturing technology, with characteristics of little vibration and low noise.

Silence process of fan motor

——Select cast aluminum as manufacturing material of the fan motor. Motor bracket adopts non-resonant hanger structure to ensure stable electrical motor performance and reducing vibration noise.

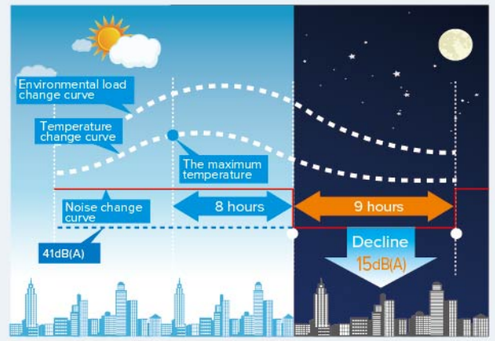
New type efficient axial fan

——Develops new type and efficient sector axial fan to reduce turbulence around the fan, uses special materials to absorb vibration and noise, which can significantly reduce "buzzing" sound.



Night Silence Mode

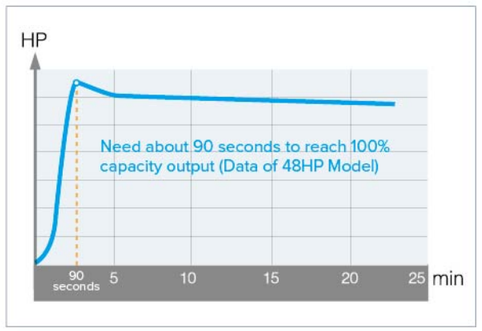
——The outdoor unit has a unique Night Mode setting function, the Max.noise level in full load operation at night is 15dB(A) lower than that in normal operation in daytime, only 41dB (A) (8HP model, for example).



Quick start, quickly meet the needs of the space comfort

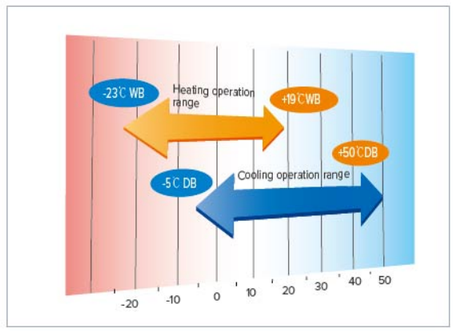
☐ Rapid cooling and heating

Through quick start technology of the compressor, the unit can achieve 100% output of heating capacity in a very short period of time, and meet the demand for air conditioning in the space quickly.



☐ Wide operating range

The system can run within a wide temperature range, the lowest heating operation can reach -23℃WB, ensure a good heating effect in winter.

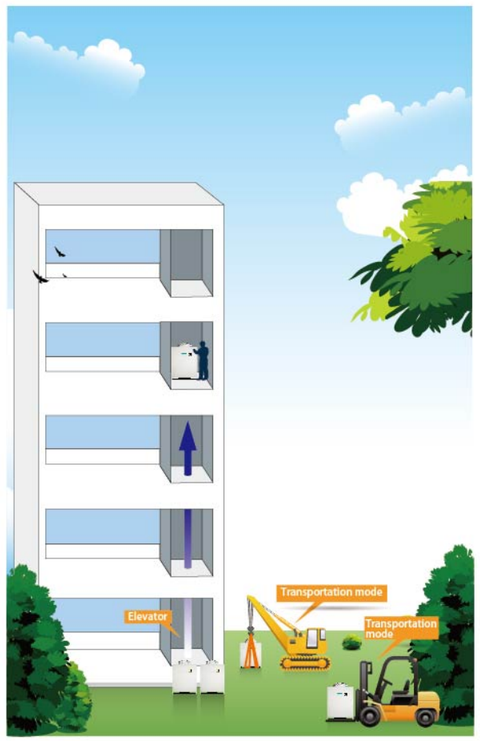


G4 A high degree of flexibility in product design and installation

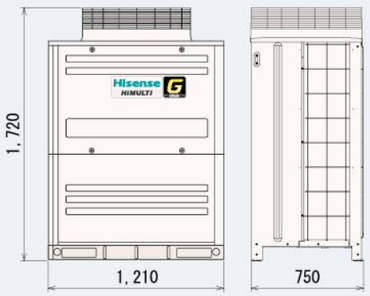
Hi-Flexi G series pay much attention to every detail in product design, taking full account of the realities of engineering application. The installation flexibility of the product design is greatly improved through a series of technical upgrading.

Small size, light weight, saving space in transportation and installation

The largest basic unit outdoor unit is 18HP, it can be transported by the elevator of 11 people, which makes it more convenient for transportation and installation.



Outside dimension of model 16HP



The door size of elevator car with a load of more than 630kg is 800mm×2100mm, the car depth is greater than 1250mm, a single module can be moved in, so it is easy to transport in high-rise buildings.

☐ Super-long piping conditions, more convenient design

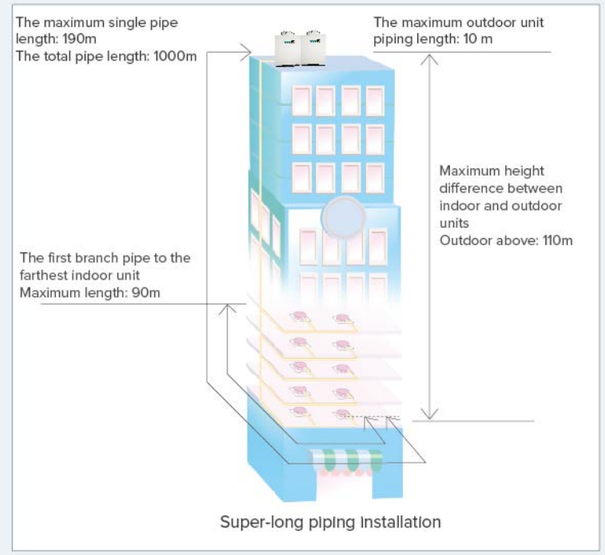
For Hi-Flexi G Series, the largest single pipe length is increased to 190 meters, the height difference between indoor unit and outdoor unit is up to 110 meters, easy to install.

Maximum pipe length: 190m

When the outdoor unit is installed above the indoor unit, maximum height difference between indoor unit and outdoor unit: 110m *
Recommended height difference: 50m

When the outdoor unit is installed below the indoor unit, maximum height difference between the indoor unit and outdoor unit: 40m

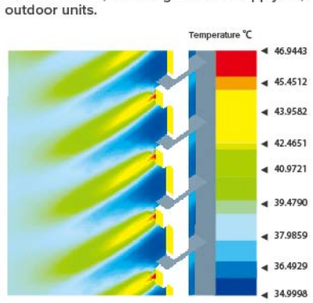
* Corresponding notes, please consult the technical staff for details.



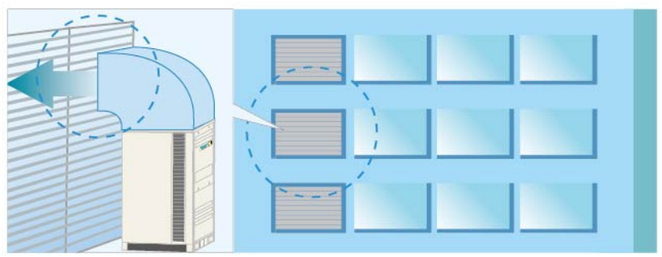
Super-long piping installation

☐ Layered installation, flexibly corresponding to high-rise buildings

For high-rise buildings, machine layer can be left to place outdoor units, or machine room can be set up on each floor. By using exhaust duct to exhaust the air, with long distance supply air, can effectively prevent short circuit of return air, ensure good ventilation and heat exchange effects of outdoor units.

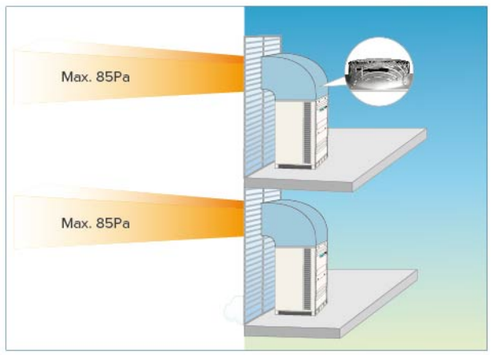


Airflow Schematic



Exhaust duct installation

Layered installation effect picture



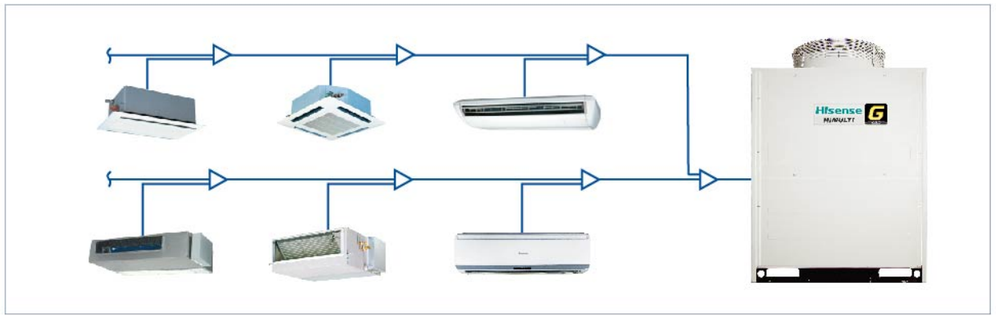
Extra-high external static pressure design

The efficient axial fan is designed adopting CFD, finite element method, aviation dynamic fluid simulation analysis and other advanced concepts; its air inlet angle and outlet angle are optimized; together with unique horn air vent design, the external static pressure of outdoor unit is higher, which can better exhaust air and ensure smooth air flow.

- Adopt efficient DC fan motor
- The use of efficient fan reduces energy consumption of the motor
- Can achieve industry-leading level of external static pressure 85Pa

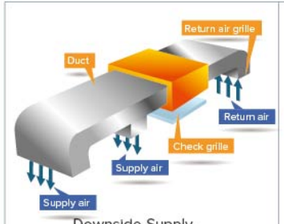
☐ Various models, super multi-connected, easily correspond to the changes in spacial layout

A wide range of outdoor units can be selected according to the actual situation of the building; there are 9 types of indoor unit to choose from; outdoor units and indoor units can be matched and connected freely, which can be selected rationally according to floor location of the owners, interior room decoration and purposes. A 48HP outdoor unit can connect up to 64 indoor units to meet the needs of different house types.



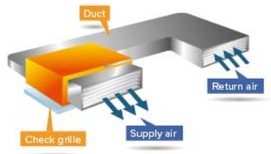
☐ Various modes of supply and return air to coordinate with room decoration designs

According to the difference between housing construction structure and interior decoration, the users can select different ceiling ducted types, on the one hand it can coordinate with the interior decoration; on the other hand, it can meet customers' different personal needs to the maximum extent.

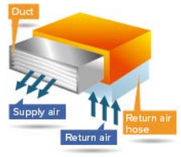


Downside-Supply, Upper-Return

Side-Supply, Upper-Return



Side-Supply, Side-Return

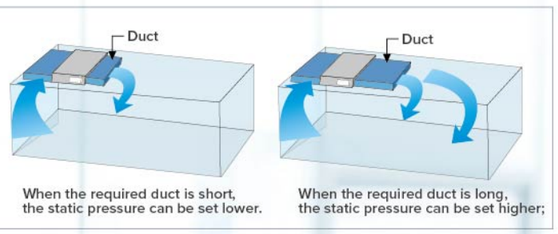


Side-Supply, Bottom-return *

○ Adopting direct bottom return will make indoor noise increasing 5-8dB (A)

☐ Adjustable indoor unit static pressure

Indoor unit can adjust static pressure automatically according to the house structure and installation condition, ensure that the indoor unit operates in the optimum exhaust state.



When the required duct is short, the static pressure can be set lower.

When the required duct is long, the static pressure can be set higher;

G5 Highly intelligent control system

Hisense inverter central air-conditioning intelligent control system can be controlled automatically all by a computer; the overall operation of the system can be easily learned; it can identify and solve problems in time; meanwhile achieve users' sub-metering of electricity bill, and make intelligent control more humane.

Controllers with more choices, more intelligent and convenient control

Remote Control Switch

HYXE-A01H

Compatible with the Hi-NET

- The HYXE-A01H has a design that matches the interior.
- The new large LCD display permits users to see the operating conditions and settings.
- The timer can be set at half-hour intervals up to 72 hours.
- All the functions can be selected by remote control switches.
- The HYXE-A01H monitors the operating conditions in the system and an alarm is issued if a problem occurs.
- A "self-diagnosis function"checks for problems on printed boards in indoor and outdoor units.
- Equipped with energy-saving functions such as a preset temperature range limiting function for preventing excessive cooling/heating and a preset temperature automatic reset function, as well as an operation locking mechanism and the capability to prevent users from forgetting to turn off the system..

7-Day Timer

HYDE-E01H

Compatible with the Hi-NET

- By using with HYJE-D02H and HYXE-A01H controllers, the air conditioners controlled by them can be operated according to a schedule.
- The timer can be set at 7-day intervals, and operation/stop can be set 3 times daily.
- Remote control can be prohibited in accordance with the OFF time. (when used with HYJE-D02H and HYXE-A01H.
- Two types of weekly schedule (A and B) can be set, and can easily be changed for summer and winter.
- Settings are all digitally displayed, allowing operations and settings to be checked easily.
- The power failure backup function prevents the timer from being stopped by a power failure lasting up to 2 weeks.

Wireless Remote Control Switch

HYE-Q01

Compatible with the Hi-NET

- One-touch handy operation, no wiring work required.
- Two or more units can be operated simultaneously by remote control.

* Receiver kit is required.

Central Station

HYJE-D02H

Compatible with the Hi-NET
Up to 160 indoor units
Up to 128 indoor units
Up to 64 remote control groups
Up to 16 remote control groups

- By connecting to the Hi-NET, up to 64 remote control groups and 160 indoor units can be controlled. Up to 8 units can be connected to the Hi-NET.
- In addition to basic control, such as settings for operation/stop, the operation mode and temperature, the air quantity and auto louver can be set. If a problem occurs, an alarm code immediately shows the details of the problem.
- An external input terminal is provided as standard. External signals enable the following functions: Central operation/stop, demand control, emergency stop, central operation output, and central alarm output.
- Can be used in combination with the One-touch Controller.

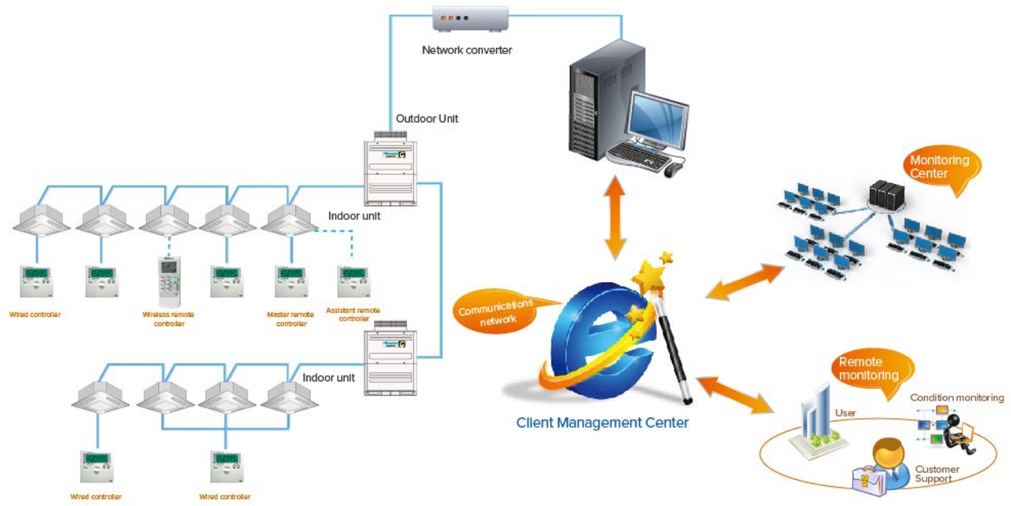
Individual control

H-NET air conditioning management system

H-NET air conditioning management system adopts communication bus connection, air conditioning indoor units are connected to the computer through network converter; the system is all controlled automatically by a computer with powerful functions and simple operation. H-NET air conditioning management system can manage more than 10,000 indoor units.
HCSC-H128H1C1 is the hardware to connect the computer and air conditioning in H-NET managing system, each HCSC-H128H1C1 can connect up to 128 indoor units.

Main functions

- ◯ Monitoring air conditioning running
- ◯ Determine the temperature limit
- ◯ Running records display
- ◯ User air conditioning controller shielding function
- ◯ Air conditioning rights management
- ◯ Automatic operation according to settings
- ◯ Failure alarm
- ◯ Service Monitoring



Air conditioning electric charge allocation system

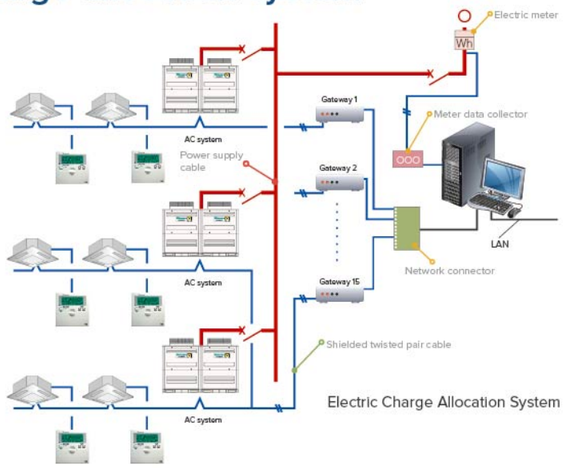
After the computer system (IPC system) is powered off, PC control management hardware can continue to charge over 8000 hours of user data, avoids the billing disputes by the owners in the conventional system due to power outage.

Main features

- ◯ Accurate and timely electricity calculation
- ◯ User's electricity bill reading by the hour
- ◯ Electric charge allocation according to multi-rate of peak-valley period of time

All the indoor units and outdoor units connected by the communication lines connected to one network converter constitute a communication bus system; a communication bus system can connect up to 64 outdoor units, 128 indoor units; a management control computer can connect multiple network converters, the maximum number of connected indoor units is up to over 10,000 units.

Note: Due to different laws and regulations in different regions, Hisense electrical charge calculation software need to customize processing in project according to the users' requirement.

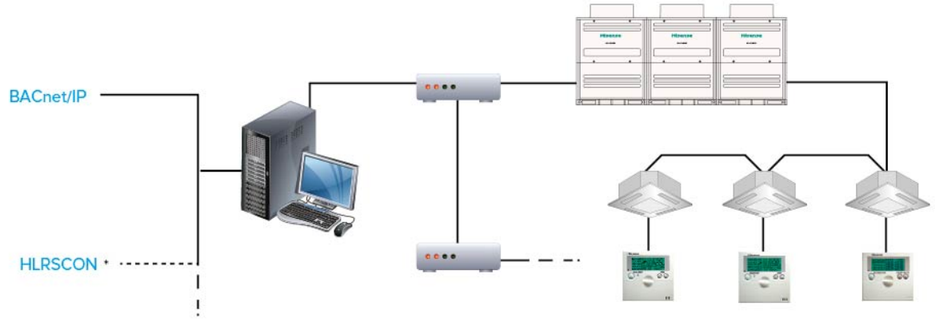


Electric Charge Allocation System

Building Automatic Control System

Can be applied to BACnet, LonWorks or RS-485 and other network communication protocols; through the network connection control module, the air-conditioning equipment is connected into the building automatic control or smart home system. It can achieve the following functions:

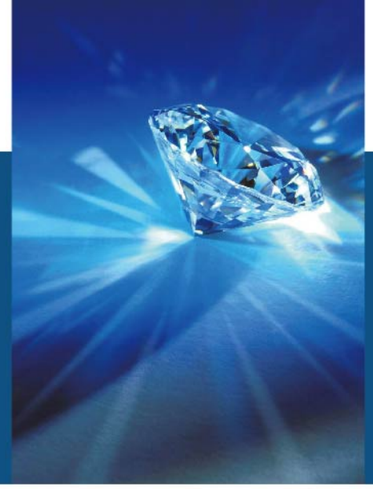
- ◯ Real-time monitoring of running status and parameters of air conditioning units, for inquiries of the monitoring center.
- ◯ Monitoring Center issued a command to target air-conditioning units.



* HLRSCON is optional,and the maintenance cost is high.

High quality product lineup

More product range to meet the needs of more space



Hi-Flexi G Series central air conditioning meets all the needs of people for space environment, interior decoration and human health with high-quality multi-choice indoor units, outdoor units and fresh air units, providing people with a new central air-conditioning experience.

Extensive outdoor unit products, a single module unit is up to a maximum of **18HP**, combined module is up to a maximum of **54HP**, which can meet the actual needs of larger and more space.

There are up to 8 types of indoor units for consumers to choose. Consumers can select in accordance with the interior decoration and design, which brings a perfect combination from comfort to aesthetic experience.

Taking full consideration of the various requirements of people for the indoor environment, the efficient fresh air unit products can solve the problems of indoor units well, and make your work and life more healthy.

Diverse selection of outdoor units

Hi-Flexi G Series offers six single module outdoor units of 8HP, 10HP, 12HP, 14HP, 16HP, 18HP, the capacity of combination module is up to 54HP, with small size, light weight and diverse combination, users can choose different products and combinations to meet their own space requirements according to their actual needs.

Capacity	Model (*/SG1FZBp)	Cooling capacity (kW)	Outdoor unit combination						The number of indoor units that can be connected
			8HP	10HP	12HP	14HP	16HP	18HP	
8HP	HVR-252W	25.2	●						13
10HP	HVR-280W	28.0		●					16
12HP	HVR-335W	33.5			●				19
14HP	HVR-400W	40.0				●			23
16HP	HVR-450W	45.0					●		26
18HP	HVR-500W	50.0						●	26
18HP	HVR-532W	53.2	●	●					26
20HP	HVR-560W	56.0		● ●					33
22HP	HVR-652W	65.2	●			●			36
24HP	HVR-690W	68.0		●		●			40
26HP	HVR-730W	73.5			●	●			43
28HP	HVR-800W	80.0				● ●			47
30HP	HVR-850W	85.0				●	●		50
32HP	HVR-900W	90.0					● ●		53
34HP	HVR-982W	98.2	●	●			●		56
36HP	HVR-1010W	101.0		● ●			●		59
38HP	HVR-1070W	107.0			● ●	●			64
40HP	HVR-1130W	112.0			● ●		●		64
42HP	HVR-1180W	118.5			●	●	●		64
44HP	HVR-1240W	123.5			●		● ●		64
46HP	HVR-1300W	130.0				●	● ●		64
48HP	HVR-1350W	135.0					● ● ●		64
50HP	HVR-1400W	140.0					● ●	●	64
52HP	HVR-1450W	145.0					●	● ●	64
54HP	HVR-1500W	150.0						● ● ●	64

Outdoor Unit Data

Items \ Outdoor Unit																
HP.			8HP	10HP	12HP	14HP	16HP	18HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
Model (*/SG1FZBp)			HVR-252W	HVR-280W	HVR-335W	HVR-400W	HVR-450W	HVR-500W	HVR-532W	HVR-560W	HVR-652W	HVR-690W	HVR-730W	HVR-800W	HVR-850W	HVR-900W
Combination (*/SG1FZBp)			HVR-252W	HVR-280W	HVR-335W	HVR-400W	HVR-450W	HVR-500W	HVR-252W HVR-280W	HVR-280W HVR-280W	HVR-252W HVR-400W	HVR-280W HVR-400W	HVR-335W HVR-400W	HVR-400W HVR-400W	HVR-400W HVR-450W	HVR-450W HVR-450W
Power Supply			AC3Φ 380V/50Hz								AC3Φ 380V/50Hz					
Outer Dimensions	Height	mm	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720
	Width	mm	950	950	950	1210	1210	1210	950+950	950+950	950+1210	950+1210	950+1210	1210+1210	1210+1210	1210+1210
	Depth	mm	750	750	750	750	750	750	750	750	750	750	750	750	750	750
Net Weight		kg	224	225	227	312	315	318	449	450	536	537	539	624	627	630
Cooling Operation	Rated Capacity	kW	25.2	28.0	33.5	40.0	45.0	50.0	53.2	56.0	65.2	68.0	73.5	80.0	85.0	90.0
	Rated Power Input	kW	6.13	7.45	9.80	11.94	13.35	16.10	13.58	14.90	18.07	19.39	21.74	23.88	25.29	26.70
Heating Operation	Rated Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0	58.5	63.0	72.0	76.5	82.5	90.0	95.0	100.0
	Rated Power Input	kW	6.54	7.65	9.85	11.15	12.40	15.10	14.19	15.30	17.69	18.80	21.00	22.30	23.55	24.80
Construction	Gas Pipe Diameter	mm	19.05	22.20	25.40	25.40	28.60	28.60	28.60	28.60	28.60	28.60	31.75	31.75	31.75	31.75
	Liquid Pipe Diameter	mm	9.53	9.53	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05
	The maximum No. of indoor units connected (units)	set	13	16	19	23	26	26	26	33	36	40	43	47	50	53
	Maximum Piping Length	m	165	165	165	165	165	165	165	165	165	165	165	165	165	165
Height Difference	Between indoor and outdoor units (Indoor unit is above)	m	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)
	Between indoor units	m	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Noise/Night Silence		dB(A)	56/41	57/44	59/44	59/45	59/45	60/45	60/45	60/48	61/48	61/48	61/48	61/48	61/48	61/48
Operating Range	Cooling	℃ DB	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50
	Heating	℃ WB	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19

Note:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling conditions: indoor temperature: 27℃ DB 19℃ WB, Outdoor temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
   Heating conditions: indoor temperature: 20℃ DB outdoor temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
3. The final appearance of outdoor units is subject to the actual products.

Outdoor unit comprehensive parameters

Items \ Outdoor Unit													
HP.			34HP	36HP	38HP	40HP	42HP	44HP	46HP	48HP	50HP	52HP	54HP
Model (*/SG1FZBp)			HVR-982W	HVR-1010W	HVR-1070W	HVR-1130W	HVR-1180W	HVR-1240W	HVR-1300W	HVR-1350W	HVR-1400W	HVR-1450W	HVR-1500W
Combination (*/SG1FZBp)			HVR-252W HVR-280W HVR-450W	HVR-280W HVR-280W HVR-450W	HVR-335W HVR-335W HVR-400W	HVR-335W HVR-335W HVR-450W	HVR-335W HVR-400W HVR-450W	HVR-335W HVR-450W HVR-450W	HVR-400W HVR-450W HVR-450W	HVR-450W HVR-450W HVR-450W	HVR-450W HVR-450W HVR-500W	HVR-450W HVR-500W HVR-500W	HVR-500W HVR-500W HVR-500W
Power Supply			AC3Φ 380V/50Hz										
Outer Dimensions	Height	mm	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720	1720
	Width	mm	950+950+1210	950+950+1210	950+950+1210	950+950+1210	950+1210+1210	950+1210+1210	1210+1210+1210	1210+1210+1210	1210+1210+1210	1210+1210+1210	1210+1210+1210
	Depth	mm	750	750	750	750	750	750	750	750	750	750	750
Net Weight		kg	764	765	766	769	854	857	942	945	948	951	954
Cooling Operation	Rated Capacity	kW	98.2	101.0	107.0	112.0	118.5	123.5	130.0	135.0	140.0	145.0	150.0
	Rated Power Input	kW	26.93	28.25	31.54	32.95	35.09	36.50	38.64	40.05	42.80	45.55	48.30
Heating Operation	Rated Capacity	kW	108.5	113.0	120.0	125.0	132.5	137.5	145.0	150.0	156.0	162.0	168.0
	Rated Power Input	kW	26.59	27.70	30.85	32.10	33.40	34.65	35.95	37.20	39.90	42.60	45.30
Construction	Gas Pipe Diameter	mm	31.75	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10
	Liquid Pipe Diameter	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	The maximum No. of indoor units connected (units)	set	56	59	64	64	64	64	64	64	64	64	64
	Maximum Piping Length	m	165	165	165	165	165	165	165	165	165	165	165
Height Difference	Between indoor and outdoor units (Indoor unit is above)	m	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)	50 (40)
	Between indoor units	m	15	15	15	15	15	15	15	15	15	15	15
Noise/Night Silence		dB(A)	63/49	64/49	64/49	64/50	64/50	64/50	65/50	65/50	66/50	66/51	67/51
Operating Range	Cooling	℃ DB	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50
	Heating	℃ WB	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19	-23~19

Note:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling conditions: indoor temperature: 27℃ DB 19℃ WB, Outdoor temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
   Heating conditions: indoor temperature: 20℃ DB outdoor temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
3. The final appearance of outdoor units is subject to the actual products.
4. " * " Means the main model of outdoor unit, For example, the main outdoor unit model of 8HP product is HVR-252W, the model is HVR-252W/SG1FZBp.

Outdoor Unit Accessories

Main Pipes (Pipe length is less than 100m)

Model (*/SG1FZBp)	HVR-252W	HVR-280W	HVR-335W	HVR-400W	HVR-450W	HVR-500W	HVR-532W	HVR-560W
Gas Pipe （φmm）	19.05	22.2	25.4	25.4	28.6	28.6	28.6	28.6
Liquid Pipe （φmm）	9.53	9.53	12.7	12.7	12.7	15.88	15.88	15.88
The First Branch Pipe	HFQ-102F	HFQ-102F	HFQ-162F	HFQ-162F	HFQ-162F	HFQ-162F	HFQ-242F	HFQ-242F

Model (*/SG1FZBp)	HVR-652W	HVR-690W	HVR-730W	HVR-800W	HVR-850W	HVR-900W	HVR-982W	HVR-1010W
Gas Pipe （φmm）	28.6	28.6	31.75	31.75	31.75	31.75	31.75	38.1
Liquid Pipe （φmm）	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05
The First Branch Pipe	HFQ-242F	HFQ-242F	HFQ-242F	HFQ-242F	HFQ-F302	HFQ-302F	HFQ-302F	HFQ-302F

Model (*/SG1FZBp)	HVR-1070W	HVR-1130W	HVR-1180W	HVR-1240W	HVR-1300W	HVR-1350W	HVR-1400W	HVR-1450W	HVR-1500W
Gas Pipe （φmm）	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
Liquid Pipe （φmm）	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
The First Branch Pipe	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F

Main Pipes (Pipe length is less than 100m)

Model (*/SG1FZBp)	HVR-252W	HVR-280W	HVR-335W	HVR-400W	HVR-450W	HVR-500W	HVR-532W	HVR-560W
Gas Pipe （φmm）	22.2	25.4	28.6	28.6	31.75	31.75	31.75	31.75
Liquid Pipe （φmm）	12.7	12.7	15.88	15.88	15.88	19.05	19.05	19.05
The First Branch Pipe	HFQ-102F	HFQ-162F	HFQ-242F	HFQ-242F	HFQ-242F	HFQ-302F	HFQ-302F	HFQ-302F

Model (*/SG1FZBp)	HVR-652W	HVR-690W	HVR-730W	HVR-800W	HVR-850W	HVR-900W	HVR-982W	HVR-1010W
Gas Pipe （φmm）	31.75	31.75	34.92	34.92	34.92	34.92	34.92	44.45
Liquid Pipe （φmm）	19.05	19.05	22.2	22.2	22.2	22.2	22.2	22.2
The First Branch Pipe	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F

Model (*/SG1FZBp)	HVR-1070W	HVR-1130W	HVR-1180W	HVR-1240W	HVR-1300W	HVR-1350W	HVR-1400W	HVR-1450W	HVR-1500W
Gas Pipe （φmm）	44.45	44.45	44.45	44.45	44.45	44.45	44.45	44.45	44.45
Liquid Pipe （φmm）	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
The First Branch Pipe	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F	HFQ-302F

The first branch pipe ~ the last branch pipe

Total Capacity of Indoor Unit（kW）	Q<16.8	16.8≤Q<25.2	25.2≤Q<33.5	33.5≤Q<45.0
Gas Pipe （φmm）	φ15.88	φ19.05	φ22.2	φ25.4
Liquid Pipe （φmm）	φ9.53	φ9.53	φ9.53	φ12.7
Branch Pipe	HFQ-102F	HFQ-102F	HFQ-102F	HFQ-162F

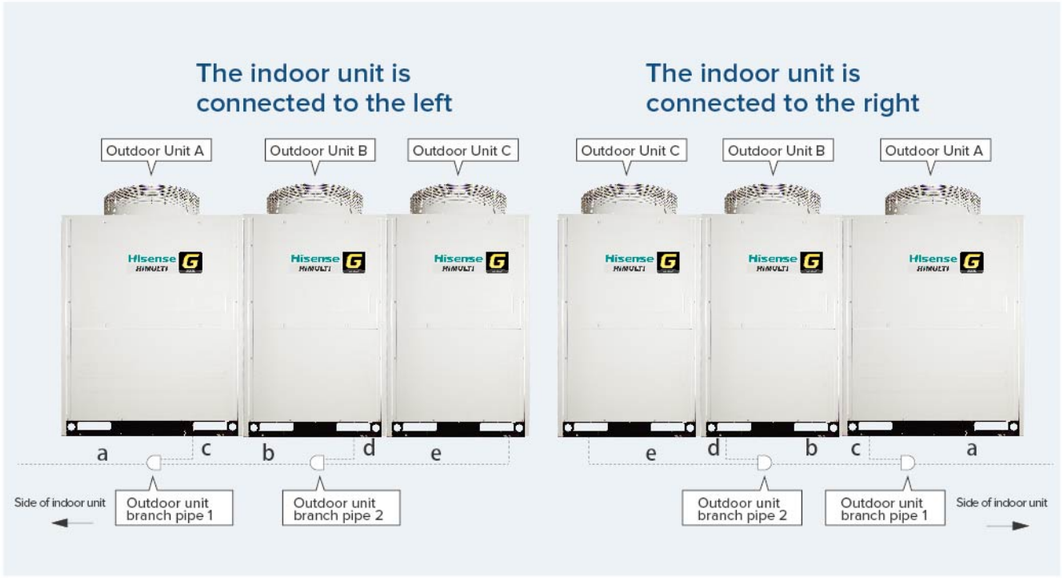
Total Capacity of Indoor Unit（kW）	45.0≤Q<50.4	50.4≤Q<72.8	72.8≤Q<101.0	101.0≤Q
Gas Pipe （φmm）	φ28.6	φ28.6	φ31.75	φ38.1
Liquid Pipe （φmm）	φ12.7	φ15.88	φ19.05	φ19.05
Branch Pipe	HFQ-162F	HFQ-242F	HFQ-302F	HFQ-302F

The indoor unit is connected on the left side

The indoor unit is connected on the right side

Outdoor unit branch pipe selection (Double module combination model)

Outdoor unit form	HVR-532~690W/SG1FZBp	HVR-730~900W/SG1FZBp
Outdoor unit branch pipe 1	HFQ-M22F	HFQ-M32F



Outdoor unit branch pipe selection (Triple module combination model)

Outdoor unit form	HVR-982～1130W/SG1FZBp	HVR-1180～1500W/SG1FZBp
Outdoor unit branch pipe 1	HFQ-M32F	HFQ-M32F
Outdoor unit branch pipe 2	HFQ-M22F	HFQ-M32F

Note: When installing outdoor unit combinations outside the factory, the arrangement order follows the following rules: the closer to the side of refrigerant pipe of indoor unit, the greater capacity the outdoor unit will have.

Branch pipe ~ indoor unit

Indoor Model	Pipe Dimensions (Φ mm)		The maximum liquid pipe length (m)
	Gas pipe	Liquid pipe	
Type 22～Type 45	12.7	6.35*1	15*1
Type 50～Type 56	15.88	6.35*1	15*1
Type 63～Type 160	15.88	9.53	40*2
Type 224	19.05	9.53	40*2
Type 280	22.2	9.53	40*2

Note: 1. The liquid pipe length of type 22 ~ type 56 indoor units and type 63 wall-mounted unit is greater than 15m, please change the liquid pipe length from Φ6.35 to Φ9.53.
2 . Related to the number of indoor units connected.

Extensive indoor unit products

Meet the needs of individual space experience

Hisense Hi-Multi G series has a variety of indoor units to choose from, together with interior decoration, it brings you individual home space to enjoy what you want.

Indoor unit lineup

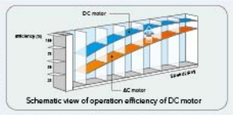
Type/Model	Indoor unit figure	Cooling capacity (kW)																			
		2.2	2.5	2.8	3.2	3.6	4.3	4.5	5.0	5.6	6.3	7.1	8.4	9.0	10.0	11.2	12.5	14.2	16.0	22.4	28.0
		Type 22	Type 25	Type 28	Type 32	Type 36	Type 43	Type 45	Type 50	Type 56	Type 63	Type 71	Type 80	Type 90	Type 100	Type 112	Type 125	Type 140	Type 160	Type 224	Type 280
DC duct HVR-**FGD/G1FZBp		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Low static pressure duct F Series HVR-**F/G1FZBp		●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
High static pressure duct FG Series HVR-**FG/G1FZBp HVR-**FG/SG1FZBp		●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DC slim duct HVR-**KFD/G1FZBp		●	●	●	●	●	●	●	●	●	●										
Slim duct KF Series HVR-**KF/G1FZBp		●	●	●		●	●	●	●	●	●	●									
Slim duct ZF series HVR-**ZF/G1FZBp		●	●	●		●	●														
Four-way Cassette type Q Series HVR-**Q/G1FZBp				●		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Two-way Cassette type Q2 Series HVR-**Q2/G1FZBp		●		●		●	●	●	●	●	●	●	●	●		●		●	●		
Ceiling duct D Series HVR-**D/G1FZBp										●		●	●			●		●			
Wall-mounted duct G Series HVR-**G/G1FZBp				●			●			●	●										
Floor type LM Series HVR-**LM/G1FZBp				●			●			●		●									
Concealed floor type LA Series HVR-**LA/G1FZBp				●			●			●		●									

Note: "**" refers to the indoor unit capacity, for example, HVR-36F/G1FZBp means type 36 low static pressure duct

DC duct |FGD Series|

Efficient DC motor, more energy saving

Compactly designed efficient DC motor with variable speed, significantly reduces the indoor unit return air resistance, with more efficiency, lower operation vibration and lower noise.



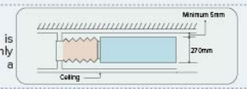
Schematic view of operation efficiency of DC motor

Three adjustable external static pressure

Three levels of adjustable external static pressure, can be connected to the duct for air supply; the equipment installation can flexibility coordinate with the construction and decoration, the user can select the appropriate installation modes and air supply and return modes according to the actual installation space.

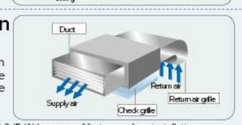
Slim unit, saving space

The unit thickness of type 71 and below is 270mm, even if that of type 71 and up is only 300mm, so it can be easily installed in a narrow-height residential ceiling.



Meet a variety of installation requirements

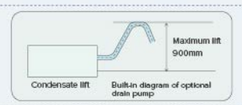
Can flexibility coordinate with the construction and decoration, the user can select the appropriate installation modes according to the actual installation space.



Note: Due to differences in test conditions and the actual installation conditions, the noise may increase by more than 5-8dB (A) because of factors such as installation way and room structure etc.

Optional parts

Drain pump is provided in an optional form.



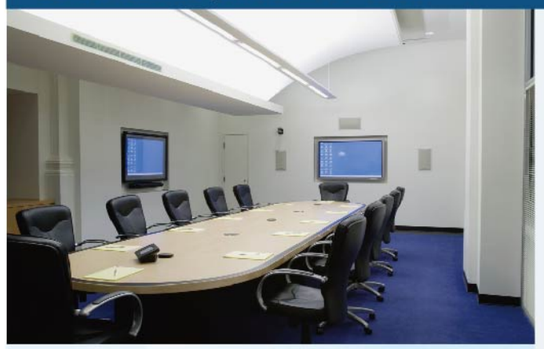
Quiet operation

Lower noise, quieter operation.

Fresh indoor air

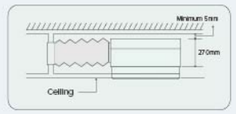
Fresh air is introduced from outside and treated with filter device, thus ensuring the freshness of indoor air.

Low static pressure duct |F Series|



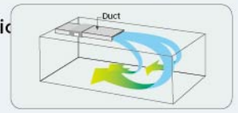
Saving installation space

The unit thickness of type 22-71 is only 270mm, it can be easily installed in limited space of the ceiling.



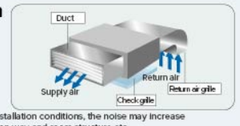
Excellent air supply conditi

The unit can deliver cool/warm air to every corner of the room through the duct, makingpeople feel very comfortable.



Meet a variety of installation requirements

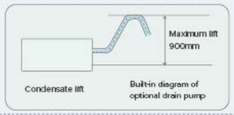
Can flexibility coordinate with the construction and decoration, the user can select the appropriate installation modes according to the actual installation space.



Note: Due to differences in test conditions and the actual installation conditions, the noise may increase by more than 5-8dB (A) because of factors such as installation way and room structure etc.

Optional parts

Drain pump is provided in an optional form.



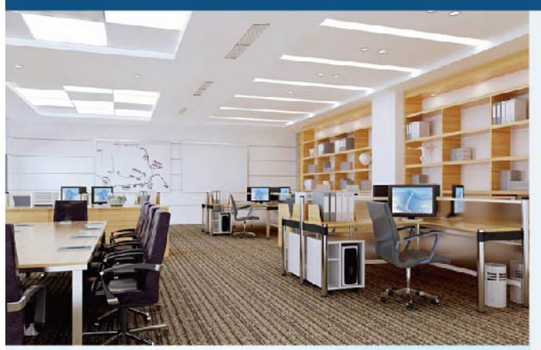
Quiet operation

Lower noise, quieter operation.

Fresh indoor air

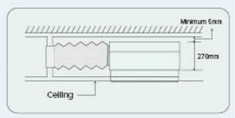
Fresh air is introduced from outside and treated with filter device, thus ensuring the freshness of indoor air.

High static pressure duct | FG series|



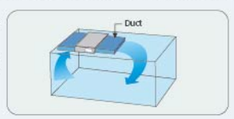
Saving installation space

The unit thickness of type 22-71 is only 270mm, it can be easily installed in limited space of the ceiling.



Higher external static pressure

With good adaptability of field installation, it can install a longer duct. Especially for occasions requiring a longer duct.

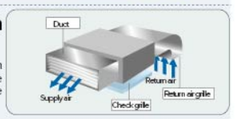


Fresh indoor air

Fresh air is introduced from outside and treated with filter device, thus ensuring the freshness of indoor air.

Meet a variety of installation requirements

Can flexibility coordinate with the construction and decoration, the user can select the appropriate installation modes according to the actual installation space.



Note: Due to differences in test conditions and the actual installation conditions, the noise may increase by more than 5-8dB (A) because of factors such as installation way and room structure etc.

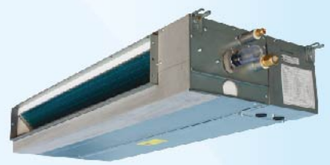
Quiet operation

Lower noise, quieter operation.

Optional parts

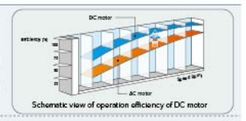
Drain pump is provided in an optional form

DC slim duct | KFD Series|



Efficient DC motor, more energy saving

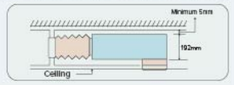
Compactly designed efficient DC motor with variable speed, significantly reduces the indoor unit return air resistance, with more efficiency, lower operation vibration and lower noise.



Schematic view of operation efficiency of DC motor

Slim unit, saving space

With unit body thickness only 192mm, unit body depth only 447mm, it is especially suitable for places where the ceiling width is shorter, saving ceiling area and installation space, making the installation more flexible and convenient.

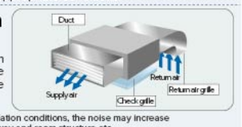


Three levels of adjustable external static pressure

Three levels of adjustable external static pressure, can be connected to the duct for air supply; Straight blowing can be achieved under appropriate conditions.

Meet a variety of installation requirements

Can flexibility coordinate with the construction and decoration, the user can select the appropriate installation modes according to the actual installation space.



Note: Due to differences in test conditions and the actual installation conditions, the noise may increase by more than 5-8dB (A) because of factors such as installation way and room structure etc.

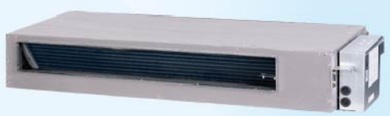
Quiet operation

The product adopts delicate compactly designed fan motor (significantly reducing indoor unit return air resistance) and new style volute with better vibration absorbing effect, reduces operation noise of the machine effectively, which has reached the industry's lowest level.

Optional parts

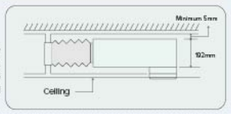
Drain pump is provided in an optional form.

Slim duct |KF Series|



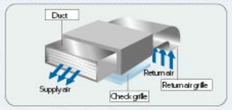
Saving installation space

With unit body thickness only 192mm, it can be easily installed in the ceiling with narrow height. With unit body depth only 447mm, it is especially suitable for places where the ceiling width is shorter, saving ceiling area.



Meet a variety of installation requirements

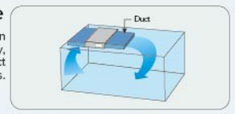
Can flexibility coordinate with the construction and decoration, the user can select the appropriate installation modes according to the actual installation space.



Note: Due to differences in test conditions and the actual installation conditions, the noise may increase by more than 5-8dB (A) because of factors such as installation way and room structure etc.

Broad external static pressure

With standard static pressure 10 (or 30Pa), it can provide broad installation conditions flexibly, such as: can connect duct, can achieve direct blow under appropriate conditions. (considering noise standard).



Note: For additional external static pressure specifications, please contact technical department.

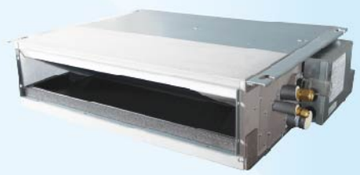
Quiet operation

The product adopts delicate compactly designed fan motor (significantly reducing indoor unit return air resistance) and new style volute with better vibration absorbing effect, reduces operation noise of the machine effectively, which has reached the industry's lowest level.

Optional parts

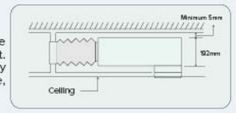
Drain pump is provided in an optional form

Slim duct |ZF Series|



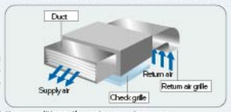
Saving installation space

With unit body thickness only 192mm, it can be easily installed in the ceiling with narrow height. With unit width only 700mm, it is specially suitable for places with narrow ceiling space, such as hotel room, master bedroom etc.



Meet a variety of installation requirements

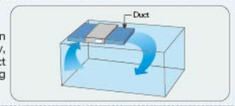
Can flexibility coordinate with the construction and decoration, the user can select the appropriate installation modes according to the actual installation space.



Note: Due to differences in test conditions and the actual installation conditions, the noise may increase by more than 5-8dB (A) because of factors such as installation way and room structure etc.

Broad external static pressure

With standard static pressure 10 (or 30Pa), it can provide broad installation conditions flexibly, such as: can connect duct, can achieve direct blow under appropriate conditions. (considering noise standard).



Quiet operation

The product adopts delicate compactly designed fan motor (significantly reducing indoor unit return air resistance) and new style volute with better vibration absorbing effect, reduces operation noise of the machine effectively, which has reached the industry's lowest level.

Optional parts

Drain pump is provided in an optional form

Four-way cassette type |Q Seres|

Quieter operation

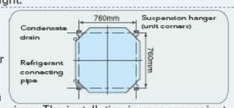
With super streamline turbofan (three-dimensional curved-face spiral turbofan with high efficiency), air flow efficiency is increased. With fan axile bush added vibration reducing rubber and slotless fan design, vibration is significantly reduced, sound quality is improved, meanwhile the motor noise is also reduced.

Using new type DC motor, fan motor input power is reduced

By using multiple technologies such as rotor made of particular material on DC motor, strengthened ventilating system, rotor in combination of separate etc, it achieves totally higher efficiency, smaller volume and lighter weight.

Flexible adjustment of refrigerant piping direction

Suspension hanging brackets are located at four corners of unit body with spacing of 760mm. Without changing position of suspension bolt, changing direction of unit body horizontally can change outlet direction of refrigerant connecting pipes. The installation is very convenient.



Delicate and slim unit body

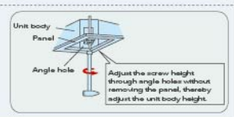
Unit height of type 28-71 is only 248mm, it is very suitable for installing in narrow ceiling space.

High ceiling air supply function

When Indoor Unit HVR-80 ^V 160Q/G1FZBp is running, the supply air height is up to 4.2m; When the indoor unit is HVR-28 ^V When 71Q/G1FZBp, supply air height is 3.5m.

Unit height is easy to be adjusted

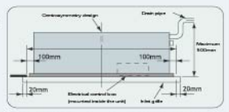
By using angle holes configured on four corners of the panel, the adjustment of unit height can be completed without removing the panel. The maximum drainage height of drain pump with standard configuration is 850mm.



Two-way Cassette type |Q2 Series|

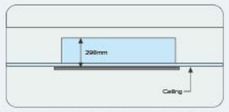
Reducing the weight and size makes lifting and replacing particularly easy

80 type length only 860mm, height 298mm, small size, light weight makes lifting easier.



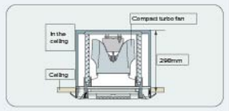
can be installed in a small ceiling space with compact appearance

The compact turbo fan simplifies the unit, the unit height is 298mm, installation is easier.



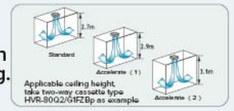
Compact turbo fan makes noise level under control

The compact turbofan's helical structure of three-dimensional surface reduces noise, and the electromagnetic noise is reduced greatly because of PWM control (pulse width adjustment).



When the unit is mounted on a high ceiling, you only need to set acceleration to maintain a comfortable air-conditioning.

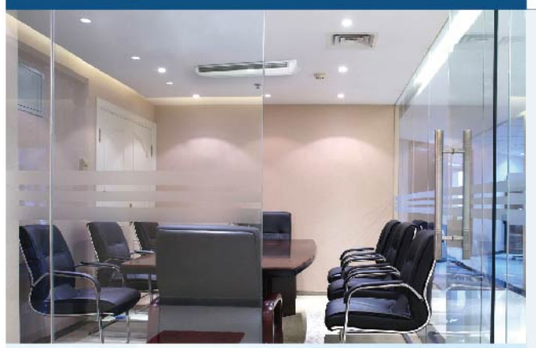
By setting acceleration on the remote control, you can also get comfortable air conditioning in a room with high ceiling.



Note: * Take two-way cassette type HVR-80Q2/G1FZBp as example, the reaching distances of outlet air in different modes varies. *Installing long-lasting filter will reduce air flow, therefore it is suitable for installation in low ceiling.

Drain pump with standard configuration, the maximum drain height is 850mm.

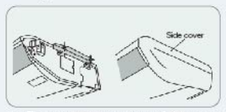
Ceiling Duct |D Series|



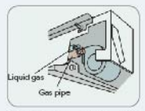
Automatic swing design of air outlet

The sleek design of lower half of the outlet provides the unit with a beautiful appearance and quiet operation. The automatic swinging blades on upper half of the outlet can automatically control the air flow up and down. When the unit stops running, swinging blades will automatically cover the outlet .

Simple installation and service



1) The suspension screw of the unit is located outside the unit body side, which can easily adjust the suspension height. Suspension screw is covered by side cover, ensuring a beautiful appearance.



2) Simply open the side cover, broad working space for the refrigerant pipes brings more convenience in installation.

3) Open the electrical control box, and you can set the DIP switch.

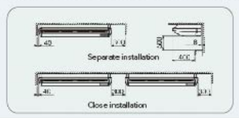
Creative design will significantly reduce noise and vibration

Due to the choice of larger fan and improvement of air flow field, reduces the fan speed, and the noise and vibration are reduced accordingly.

Long-lasting filter

The standard model has provided a long-lasting filter (anti-fungal), the filter can work continuously for approximately 2500 hours without cleaning (generally used in the office).

Installation example



Wall mounted type |G Series|

Elegant design, can coordinate with various indoor decorations

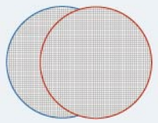
Provide a high-quality "elegant" design, with the demand to meet the trend, with a feature of simple and smooth shape, which can coordinate with all types of interior decorations.

Compact structure, light weight

To make installation simple and convenient, adopt slender slim body design and new resin material with high specific volume making the weight of unit significantly reduced.

The latest "swing design", uniform air flow distribution

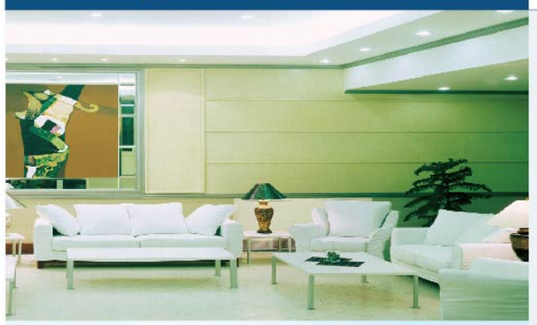
Adopt "swing design" flaps at the outlet, providing three air deflecting modes configured on the right and left of outlet, to facilitate air conditioning air flow spreading. Such a device can distribute cozy air flow uniformly throughout the room.



Standard parts configuration

The mildew-proof filter has become the standard built-in accessory part with clean and healthy use.

Floor type |LM Series|



Floor type-LM

Space-saving appearance design, with thickness of only 202mm

he compact design with thickness of only 202mm will not damage the interior layout and appearance after installation.

Rational use of space under the window

With the height of only 630mm, there is enough space under the window after installation, thus achieve rational use of space.

Floor hiding type |LA Series|

Floor hiding type-LA

Compact body, can allow installation in a very small space

With particular emphasis on the strong compatibility of inter unit design , as space-saving design, can be placed under the lower window.

Select the location of the remote control

Install the remote control under the plastic cover plate.

DC duct | FGDSeries |

Model (*/G1FZBp)		HVR-22FGD	HVR-25FGD	HVR-28FGD	HVR-32FGD	HVR-36FGD	HVR-40FGD	HVR-45FGD	HVR-50FGD	HVR-56FGD	HVR-63FGD	HVR-71FGD	HVR-80FGD	HVR-90FGD	HVR-100FGD	HVR-112FGD	HVR-125FGD	HVR-140FGD	HVR-160FGD
Power supply		AC1 Φ 220V/50Hz																	
Rated cooling capacity	kW	2.2	2.5	2.8	3.2	3.6	4.3	4.5	5.0	5.6	6.3	7.1	8.4	9.0	10.0	11.2	12.5	14.2	16.0
Rated heating capacity	kW	2.8	3.0	3.3	3.6	4.2	4.9	5.0	5.6	6.5	7.5	8.5	9.6	10.0	11.2	13.0	14.0	16.3	18.0
Noise value (H/M/L)	dB(A)	26/24/23	26/24/23	26/24/23	26/24/23	31/29/27	31/29/27	31/29/27	32/30/27	32/30/27	34/32/29	34/32/29	33/31/28	33/31/28	35/31/28	35/31/28	42/40/37	42/40/37	43/40/38
External dimensions (H)	mm	270	270	270	270	270	270	270	270	270	270	270	300	300	300	300	300	300	300
External dimensions (W)	mm	650+75	650+75	650+75	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	1100+75	1100+75	1100+75	1100+75	1400+75	1400+75	1400+75
External dimensions (D)	mm	720	720	720	720	720	720	720	720	720	720	720	800	800	800	800	800	800	800
Air inlet dimensions(W×H)	mm	606×225	606×225	606×225	606×225	606×225	606×225	606×225	856×225	856×225	856×225	856×225	1047×256	1047×256	1047×256	1047×256	1347×256	1347×256	1347×256
Air outlet dimensions(W×H)	mm	582×138	582×138	582×138	582×138	582×138	582×138	582×138	832×138	832×138	832×138	832×138	1036×195	1036×195	1036×195	1036×195	1336×195	1336×195	1336×195
Net weight	kg	24	24	24	24	24	24	24	31	31	31	31	40	40	40	40	48	48	48
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)																	
Rated fan speed (H/M/L)	m³/min	8/6.8/5.8	8/6.8/5.8	8/6.8/5.8	8/6.8/5.8	11/10/8	11/10/8	11/10/8	13/11.5/9.5	13/11.5/9.5	17/15/11	17/15/11	23/21/17	23/21/17	25/23/19	25/23/19	32.5/29.5/23.5	32.5/29.5/23.5	35/31/24
Motor power	W	150	150	150	150	150	150	150	150	150	150	150	250	250	250	250	250	250	250
Refrigerant connecting pipe		Flared joint connection (with flared joint)																	
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate pipe		VP25(Outer diameterΦ32)																	
External static pressure	Pa	20(0-20-60)	20(0-20-60)	20(0-20-60)	20(0-20-60)	20(0-20-60)	20(0-20-60)	20(0-20-60)	30(0-30-80)	30(0-30-80)	30(0-30-80)	30(0-30-80)	50(10-50-180)	50(10-50-180)	50(10-50-160)	50(10-50-160)	50(10-50-120)	50(10-50-120)	50(10-50-110)
Package volume	m³	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.28	0.28	0.28	0.28	0.40	0.40	0.40	0.40	0.49	0.49	0.49

Note: 1、Rated cooling capacity test condition: Indoor temp: 27℃ DB 19℃ WB, Outdoor temp: 35℃DB, Pipe length: 7.5m, Pipe height difference: 0m;
2、Rated heating capacity test condition: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
3、Noise data are measured according to Appendix B of GB/T18836-2002. The parameters mentioned above are measured in anechoic chamber, the impact of reflected echo must be counted in the field.
When using bottom return air or higher external static pressure, the noise will increase according to factors such as installation mode and room structure etc.
4、"*" refers to indoor unit model, for example, the main indoor unit model of type 22 DC duct is HVR-22FGD, the model is HVR-22FGD/G1FZBp.

Low static pressure duct | F Series |

Model (*/G1FZBp)		HVR-22F	HVR-28F	HVR-36F	HVR-40F	HVR-45F	HVR-50F	HVR-56F	HVR-63F	HVR-71F	HVR-80F	HVR-90F	HVR-100F	HVR-112F	HVR-125F	HVR-140F	HVR-160F
Power supply		AC1 Φ 220V/50Hz															
Rated cooling capacity	kW	2.2	2.8	3.6	4.3	4.5	5.0	5.6	6.3	7.1	8.4	9.0	10.0	11.2	12.5	14.2	16.0
Rated heating capacity	kW	2.8	3.3	4.2	4.9	5.0	5.6	6.5	7.5	8.5	9.6	10.0	11.2	13.0	14.0	16.3	18.0
Noise value (H/M/L)	dB(A)	29.5/26/24.5	29.5/26/24.5	31/29/27	31/29/27	31/29/27	32/30/28	32/30/28	33/31/29	33/31/29	38.5/36/33	38.5/36/33	39/37/35	39/37/35	40/37/35	40/37/35	43/39/37
External dimensions (H)	mm	270	270	270	270	270	270	270	270	270	350	350	350	350	350	350	350
External dimensions (W)	mm	650+75	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1300+75
External dimensions (D)	mm	720	720	720	720	720	720	720	720	720	800	800	800	800	800	800	800
Air inlet dimensions(W×H)	mm	583×226	583×226	583×226	583×226	583×226	833×226	833×226	833×226	833×226	833×306	833×306	833×306	833×306	1233×306	1233×306	1233×306
Air outlet dimensions(W×H)	mm	553×220	553×220	553×220	553×220	553×220	803×220	803×220	803×220	803×220	803×220	803×220	803×220	803×220	1203×220	1203×220	1203×220
Net weight	kg	26	26	26	26	26	35	35	35	35	46	46	46	46	58	58	58
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)															
Rated fan speed (H/M/L)	m³/min	8/7/6	8/7/6	13/11/9	13/11/9	13/11/9	15/13/11	15/13/11	16/14/12	16/14/12	25/21/17	25/21/17	27/23/19	27/23/19	37/31/25	37/31/25	38/35/29
Motor power	W	20	20	40	40	40	45	45	45	45	100	100	100	100	160	160	180
Refrigerant connecting pipe		Flared joint connection (with flared joint)															
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate pipe		VP25(Outer diameterΦ32)															
External static pressure※	Pa	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60
Package volume	m³	0.21	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.38	0.52	0.52	0.52

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2.Noise data are measured according to Appendix B of GB/T18836-2002. The parameters mentioned above are measured in anechoic chamber, the impact of reflected echo must be counted in the field. When using bottom return air, the noise will increase according to factors such as installation mode and room structure etc.
3.Values with"※"are data tested when the filter is not used.
4."*" refers to indoor unit model, for example, the main indoor unit model of type 22 duct is HVR-22F, the model is HVR-22F/G1FZBp.

High static pressure duct | FG Series |

Model (*/G1FZBp */SG1FZBp)		HVR-22FG	HVR-28FG	HVR-36FG	HVR-40FG	HVR-45FG	HVR-50FG	HVR-56FG	HVR-63FG	HVR-71FG	HVR-80FG	HVR-90FG	HVR-100FG	HVR-112FG	HVR-125FG	HVR-140FG	HVR-160FG	HVR-224FG	HVR-280FG
Power supply		AC1 Φ 220V/50Hz																AC3 Φ 380V/50Hz	
Rated cooling capacity	kW	2.2	2.8	3.6	4.3	4.5	5.0	5.6	6.3	7.1	8.4	9.0	10.0	11.2	12.5	14.2	16.0	22.4	28.0
Rated heating capacity	kW	2.8	3.3	4.2	4.9	5.0	5.6	6.5	7.5	8.5	9.6	10.0	11.2	13.0	14.0	16.3	18.0	25.0	31.5
Noise value (H/M/L)	dB(A)	33/31/29	33/31/29	33/31/29	33/31/29	33/31/29	34/32/30	34/32/30	36/34/32	36/34/32	40/37/33	40/37/33	41/38/34	41/38/34	42/39/35	42/39/35	45/41/37	50	52
External dimensions (H)	mm	270	270	270	270	270	270	270	270	270	350	350	350	350	350	350	350	470	470
External dimensions (W)	mm	650+75	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1300+75	1060	1250
External dimensions (D)	mm	720	720	720	720	720	720	720	720	720	800	800	800	800	800	800	800	1120	1120
Air inlet dimensions(W×H)	mm	583×226	583×226	583×226	583×226	583×226	833×226	833×226	833×226	833×226	833×226	833×306	833×306	833×306	1233×306	1233×306	1233×306	910×415	1100×415
Air outlet dimensions(W×H)	mm	553×220	553×220	553×220	553×220	553×220	803×220	803×220	803×220	803×220	803×220	803×220	803×220	803×220	1203×220	1203×220	1203×220	916×338	1106×338
Net weight	kg	26	26	26	26	26	35	35	35	35	46	46	46	46	58	58	58	85	95
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)																	
Rated fan speed (H/M/L)	m³/min	8/7/6	8/7/6	13/11/9	13/11/9	13/11/9	15/13/11	15/13/11	16/14/12	16/14/12	25/21/17	25/21/17	27/23/19	27/23/19	37/31/25	37/31/25	38/35/29	58	72
Motor power	W	35	35	60	60	60	75	75	75	75	120	120	120	120	200	200	280	650	900
Refrigerant connecting pipe		Flared joint connection (with flared joint)																钎焊	
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
Condensate pipe		VP25(Outer diameterΦ32)																	
External static pressure※	Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	120(90)	120(90)	220	220
Package volume	m³	0.21	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.38	0.52	0.52	0.52	0.90	1.06

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2.Noise data are measured according to Appendix B of GB/T18836-2002. The parameters mentioned above are measured in anechoic chamber, the impact of reflected echo must be counted in the field. When using bottom return air, the noise will increase according to factors such as installation mode and room structure etc.
3.Values with"※"are data tested when the filter is not used. "( )" represents optional static pressure.
4."*" refers to indoor unit model, for example, the main indoor unit model of type 22 duct is HVR-22F, the model is HVR-22FG/G1FZBp; indoor unit models of type 224 and type 280 are HVR-224FG/SG1FZBp、HVR-280FG/SG1FZBp respectively.

DC slim duct | KFD Series |

Model (*/G1FZBp)		HVR-22KFD	HVR-25KFD	HVR-28KFD	HVR-32KFD	HVR-36KFD	HVR-40KFD	HVR-45KFD	HVR-50KFD	HVR-56KFD	HVR-63KFD	HVR-71KFD
Power supply		AC1 Φ 220V/50Hz										
Rated cooling capacity	kW	2.2	2.5	2.8	3.2	3.6	4.3	4.5	5.0	5.6	6.3	7.1
Rated heating capacity	kW	2.8	3.0	3.3	3.6	4.2	4.9	5.0	5.6	6.5	7.5	8.5
Noise value (H/M/L)	dB(A)	25/24/24	25/24/24	25/24/24	25/24/24	30/29/28	30/29/28	30/29/28	33/32/30	33/32/30	35/33/31	35/33/31
External dimensions (H)	mm	192	192	192	192	192	192	192	192	192	192	192
External dimensions (W)	mm	910	910	910	910	910	910	910	1180	1180	1180	1180
External dimensions (D)	mm	447	447	447	447	447	447	447	447	447	447	447
Air inlet dimensions(W×H)	mm	759×171	759×171	759×171	759×171	759×171	759×171	759×171	1029×171	1029×171	1029×171	1029×171
Air outlet dimensions(W×H)	mm	750×130	750×130	750×130	750×130	750×130	750×130	750×130	1020×130	1020×130	1020×130	1020×130
Net weight	kg	21	21	21	21	22	22	22	27	27	28	28
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)										
Rated fan speed (H/M/L)	m³/min	8/7/5.5	8.2/6.7/5.8	8.2/6.7/5.8	8.2/6.7/5.8	9.4/8.5/6	9.4/8.5/6	9.4/8.5/6	13.5/12.5/10.5	13.5/12.5/10.5	15/14/12	15/14/12
Motor power	W	33	33	33	33	33	33	33	57	57	57	57
Refrigerant connecting pipe		Flared joint connection (with flared joint)										
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
Gas pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate pipe		VP25(Outer diameterΦ32)										
External static pressure	Pa	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-30)	10(0-10-50)	10(0-10-50)	10(0-10-50)	10(0-10-50)
Package volume	m³	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18

Note: 1、Rated cooling capacity test condition: Indoor temp: 27℃ DB *1)19℃ WB *2) 19.5℃ WB, Outdoor temp: 35℃DB, Pipe length: 7.5m, Pipe height difference: 0m;
2、Rated heating capacity test condition: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
3、Noise data are measured according to Appendix B of GB/T18836-2002. The parameters mentioned above are measured in anechoic chamber, the impact of reflected echo must be counted in the field.
When using bottom return air or higher external static pressure, the noise will increase according to factors such as installation mode and room structure etc.
4、"*" refers to indoor unit model, for example, the main indoor unit model of type 22 DC duct is HVR-22KFD, the model is HVR-22KFD/G1FZBp.

Slim duct | KFSeries |

Model (*/G1FZBp)		HVR-22KF	HVR-25KF	HVR-28KF	HVR-32KF	HVR-36KF	HVR-40KF	HVR-45KF	HVR-50KF	HVR-56KF	HVR-63KF	HVR-71KF
Power supply		AC1 Φ 220V/50Hz										
Rated cooling capacity	kW	2.2	2.5	2.8	3.2	3.6	4.3	4.5	5.0	5.6	6.3	7.1
Rated heating capacity	kW	2.8	3.0	3.3	3.6	4.2	4.9	5.0	5.8	6.5	7.5	8.5
Noise value (H/M/L)	dB(A)	27/24/21	27/24/21	27/24/21	27/24/21	31/29/26	31/29/26	31/29/26	34/30/28	34/30/28	35/33/30	35/33/30
External dimensions (H)	mm	192	192	192	192	192	192	192	192	192	192	192
External dimensions (W)	mm	900	900	900	900	900	900	900	1170	1170	1170	1170
External dimensions (D)	mm	447	447	447	447	447	447	447	447	447	447	447
Air inlet dimensions (W×H)	mm	759×171	759×171	759×171	759×171	759×171	759×171	759×171	1029×171	1029×171	1029×171	1029×171
Air outlet dimensions (W×H)	mm	670×109	670×109	670×109	670×109	670×109	670×109	670×109	940×109	940×109	940×109	940×109
Net weight	kg	21	21	21	21	22	22	22	27	27	27	27
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)										
Rated fan speed (H/M/L)	m^3/min	8/7/6	8/7/6	8/7/6	10/8/7	10/8/7	10/8/7	10/8/7	14.5/12.5/10.5	14.5/12.5/10.5	16/14/12	16/14/12
Motor power	W	16	16	16	16	25	25	25	40	40	50	50
Refrigerant connecting pipe		Flared joint connection (with flared joint)										
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
Gas pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate pipe		VP25(Outer diameterΦ32)										
External static pressure	Pa	10/30	10/30	10/30	10/30	10/30	10/30	10/30	10/30	10/30	10/30	10/30
Package volume	m^3	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2.Noise data are measured according to Appendix B of GB/T18836-2002. The parameters mentioned above are measured in anechoic chamber, the impact of reflected echo must be counted in the field. When using bottom return air, the noise will increase according to factors such as installation mode and room structure etc.
3."*" refers to indoor unit model, for example, the main indoor unit model of type 22 duct is HVR-22KF, the model is HVR-22KF/G1FZBp.

Slim duct | ZF Series |

Model (*/G1FZBp)		HVR-22ZF	HVR-25ZF	HVR-28ZF	HVR-36ZF	HVR-40ZF
Power supply		AC1 Φ 220V/50Hz				
Rated cooling capacity	kW	2.2	2.5	2.8	3.6	4.3
Rated heating capacity	kW	2.8	3.0	3.3	4.2	4.9
Noise value (H/M/L)	dB(A)	27/24/21	27/24/21	27/24/21	31/29/27	31/29/27
External dimensions (H)	mm	192	192	192	192	192
External dimensions (W)	mm	700	700	700	700	700
External dimensions (D)	mm	602	602	602	602	602
Air inlet dimensions (W×H)	mm	700×168	700×168	700×168	700×168	700×168
Air outlet dimensions (W×H)	mm	676×140	676×140	676×140	676×140	676×140
Net weight	kg	21	21	21	21	21
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)				
Ratedfan speed (H/M/L)	m^3/min	8/7/6	8/7/6	8/7/6	10/8/7	10/8/7
Motor power	W	15	15	15	25	25
Refrigerant connecting pipe		Flared joint connection (with flared joint)				
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Gas pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Condensate pipe		VP25(Outer diameterΦ32)				
External static pressure	Pa	10/30	10/30	10/30	10/30	10/30
Package volume	m^3	0.15	0.15	0.15	0.15	0.15

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2.Noise data are measured according to Appendix B of GB/T18836-2002. The parameters mentioned above are measured in anechoic chamber, the impact of reflected echo must be counted in the field. When using bottom return air, the noise will increase according to factors such as installation mode and room structure etc.
3."*" refers to indoor unit model, for example, the main indoor unit model of type 22 duct is HVR-22ZF, the model is HVR-22ZF/G1FZBp.

Four-way cassette | QSeries |

Model (*/G1FZBp)		HVR-28Q	HVR-36Q	HVR-40Q	HVR-45Q	HVR-50Q	HVR-56Q	HVR-63Q	HVR-71Q	HVR-80Q	HVR-90Q	HVR-100Q	HVR-112Q	HVR-125Q	HVR-140Q	HVR-160Q
Power supply		AC1 Φ 220V/50Hz														
Rated cooling capacity	kW	2.8	3.6	4.3	4.5	5.0	5.6	6.3	7.1	8.4	9.0	10.0	11.2	12.5	14.2	16.0
Rated heating capacity	kW	3.3	4.2	4.9	5.0	5.6	6.5	7.5	8.5	9.6	10.0	11.2	13.0	14.0	16.3	18.0
Noise value (H/M/L)	dB(A)	29/28/26	30/28/26	30/28/26	30/28/26	31/29/26	31/29/26	32/30/28	32/30/28	34/32/30	34/32/30	39/36/33	39/36/33	42/37/34	42/37/34	42/40/36
External dimensions (H)	mm	248	248	248	248	248	248	248	248	298	298	298	298	298	298	298
External dimensions (W)	mm	840	840	840	840	840	840	840	840	840	840	840	840	840	840	840
External dimensions (D)	mm	840	840	840	840	840	840	840	840	840	840	840	840	840	840	840
Net weight	kg	23	23	23	23	24	24	24	24	26	26	29	29	29	29	29
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)														
Rated fan speed (H/M/L)	m^3/min	13/12/11	15/13.5/12	15/13.5/12	15/13.5/12	16/14/12	16/14/12	19/17/14	20/17/15	26/23/20	26/23/20	32/28/24	32/28/24	34/29/25	34/29/25	37/32/27
Motor power	W	56	56	56	56	56	56	56	56	56	56	108	108	108	108	108
Refrigerant connecting pipe		Flared joint connection (with flared joint)														
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate pipe		VP25(Outer diameterΦ32)														
Package volume	m^3	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Standard accessories		Mounting bracket														
Panel Model		HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA	HP-A-NA
Color		Neutral white														
Panel dimensions (H×W×D)	mm	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950	37×950×950
Net weight	kg	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Package volume	m^3	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2. Noise can be determined according to the following conditions: at a distance of 1.5m from the unit body.
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of reflected echo must be counted in the field.
3."*" refers to indoor unit model, for example, the main indoor unit model of type 28 duct is HVR-28Q, the model is HVR-28Q/G1FZBp.

Two-way cassette type | Q2Series |

Model (*/G1FZBp)		HVR-22Q2	HVR-28Q2	HVR-36Q2	HVR-40Q2	HVR-45Q2	HVR-50Q2	HVR-56Q2	HVR-63Q2	HVR-71Q2	HVR-80Q2	HVR-90Q2	HVR-112Q2	HVR-140Q2	HVR-160Q2
Power supply		AC1 Φ 220V/50Hz													
Rated cooling capacity	kW	2.2	2.8	3.6	4.3	4.5	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0
Rated heating capacity	kW	2.8	3.3	4.2	4.9	5.0	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0
Noise value (H/M/L)	dB(A)	34/32/30	34/32/30	35/32/30	35/32/30	35/32/30	35/33/31	35/33/31	38/34/32	38/34/32	41/37/34	41/37/34	40/36/34	43/40/36	43/40/36
External dimensions (H)	mm	298	298	298	298	298	298	298	298	298	298	298	298	298	298
External dimensions (W)	mm	860	860	860	860	860	860	860	860	860	860	860	1420	1420	1420
External dimensions (D)	mm	620	620	620	620	620	620	620	620	620	620	620	620	620	620
Net weight	kg	27	27	27	27	27	27	27	30	30	30	30	48	48	48
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)													
Rated fan speed (H/M/L)	m^3/min	10/9/8	10/9/8	13/11/9	13/11/9	13/11/9	15/13/11	15/13/11	19/16/14	19/16/14	22/19/16	22/19/16	29/24/21	34/29/25	34/29/25
Motor power	W	35	35	35	35	35	35	35	55	55	55	55	35×2	55×2	55×2
Refrigerant connecting pipe		Flared joint connection (with flared joint)													
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate pipe		VP25(Outer diameterΦ32)													
Package volume	m^3	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.37	0.37	0.37
Panel Model		HP-B-NA	HP-B-NA	HP-B-NA	HP-B-NA	HP-B-NA	HP-B-NA	HP-B-NA	HP-B-NA	HP-B-NA	HP-B-NA	HP-B-NA	HP-C-NA	HP-C-NA	HP-C-NA
Color		Silk white													
Panel dimensions (H×W×D)	mm	30×1100×710	30×1100×710	30×1100×710	30×1100×710	30×1100×710	30×1100×710	30×1100×710	30×1100×710	30×1100×710	30×1100×710	30×1100×710	30×1660×710	30×1660×710	30×1660×710
Net weight	kg	6	6	6	6	6	6	6	6	6	6	6	9	9	9
Package volume	m^3	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.15	0.15	0.15

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2. Noise can be determined according to the following conditions: at a distance of 1.5m from the unit body.
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of reflected echo must be counted in the field.
3."*" refers to indoor unit model, for example, the main indoor unit model of type 22 duct is HVR-22Q2, the model is HVR-22Q2/G1FZBp.

Ceiling ducted type |D Series|

Model (*/G1FZBp)		HVR-56D	HVR-71D	HVR-80D	HVR-112D	HVR-140D
Power supply		AC1 Φ 220V/50Hz				
Rated cooling capacity	kW	5.6	7.1	8.4	11.2	14.2
Rated heating capacity	kW	6.5	8.5	9.6	13.0	16.3
Noise value (H/M/L)	dB(A)	40/37/34	40/37/34	43/40/37	44/41/38	44/41/38
External dimensions (H)	mm	210	210	210	210	270
External dimensions (W)	mm	1100	1320	1320	1320	1580
External dimensions (D)	mm	670	670	670	670	670
Net weight	kg	26	30	30	34	42
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)				
Rated fan speed (H/M/L)	m^3/min	14/12/10	18/15/12	22/18/15	25/21/18	33/28/23
Motor power	W	35	50	50	95	135
Refrigerant connecting pipe		Flared joint connection (with flared joint)				
Liquid pipe	mm	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas pipe	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate pipe		VP20				
Package volume	m^3	0.30	0.36	0.36	0.43	0.50

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2. Noise can be determined according to the following conditions: at a distance of 1.5m from the unit body.
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of reflected echo must be counted in the field.
3."*" refers to indoor unit model, for example, the main indoor unit model of type 56 duct is HVR-56D, the model is HVR-56D/G1FZBp.

Wall mounted type | G Series |

Model (*/G1FZBp)		HVR-28G	HVR-40G	HVR-56G	HVR-63G
Power supply		AC1 Φ 220V/50Hz			
Rated cooling capacity	kW	2.8	4.0	5.6	6.3
Rated heating capacity	kW	3.2	4.8	6.3	7.5
Noise value (H/M/L)	dB(A)	37/34/31	41/37/34	42/38/35	43/39/37
External dimensions (H)	mm	305	305	305	305
External dimensions (W)	mm	870	870	870	870
External dimensions (D)	mm	225	225	225	225
Net weight	kg	10.5	10.5	13	13
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)			
Rated fan speed (H/M/L)	m^3/min	6.9/6.5/6.1	10.5/10.1/9.6	12.8/12.2/11.6	13.3/12.8/12.1
Motor power	W	9	16	22	24
Refrigerant connecting pipe		Flared joint connection (with flared joint)			
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Gas pipe	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate pipe		VP16			
Package volume	m^3	0.11	0.11	0.11	0.11
Standard accessories		Mounting bracket			

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2. Noise can be determined according to the following conditions: at a distance of 0.9m from the unit body.
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of reflected echo must be counted in the field.
3." * " Refers to the indoor unit on behalf of the main models, such as wall-mounted indoor unit type 28 main models for the HVR-28G, Model HVR-28G/G1FZBp.

Floor type / Floor hiding type | LM/LA series |

Indoor unit type		Floor type				Floor hiding type			
Model (*/G1FZBp)		HVR-28LM	HVR-40LM	HVR-56LM	HVR-71LM	HVR-28LA	HVR-40LA	HVR-56LA	HVR-71LA
Power supply		AC1 Φ 220V/50Hz				AC1 Φ 220V/50Hz			
Rated cooling capacity	kW	2.8	4.3	5.6	7.1	2.8	4.3	5.6	7.1
Rated heating capacity	kW	3.3	4.9	6.5	8.5	3.3	4.9	6.5	8.5
Noise value (H/M/L)	dB(A)	35/32/29	38/35/31	39/36/32	42/38/34	35/32/29	38/35/31	39/36/32	42/38/34
External dimensions (H)	mm	630	630	630	630	620	620	620	620
External dimensions (W)	mm	1045	1170	1420	1420	900	900	1170	1170
External dimensions (D)	mm	220	220	220	220	202	202	202	202
Net weight	kg	19	23	33	34	25	26	31	31
Refrigerant		R410A (Filled with nitrogen to prevent corrosion)				R410A (Filled with nitrogen to prevent corrosion)			
Rated fan speed (H/M/L)	m^3/min	8.5/7/6	12/10/9	16/14/11	16/14/11	8/7/6	10/8/7	14.5/12.5/10.5	16/14/12
Motor power	W	20	28	45	45	16	25	40	50
Refrigerant connecting pipe		Flared joint connection (with flared joint)				Flared joint connection (with flared joint)			
Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ6.35	Φ6.35	Φ6.35	Φ9.53
Gas pipe	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate pipe		ϕ 18				VP25(Outer diameter Φ32)			
Package volume	m^3	0.22	0.24	0.29	0.29	0.19	0.19	0.23	0.23

Note: 1.Test conditions of rated cooling capacity and rated heating capacity are as follows:
Cooling conditions: Indoor temperature: 27 ℃ DB 19 ℃ WB, outdoor temperature: 35 ℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: Indoor temp: 20℃DB, Outdoor temp: 7℃DB 6℃WB, Pipe length: 7.5m, Pipe height difference: 0m;
2. Noise can be determined according to the following conditions: at a distance of 1.5m from the unit body.
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of reflected echo must be counted in the field.
3."*" refers to indoor unit model, for example, the main indoor unit model of type 28 duct is HVR-28LM, the model is HVR-28LM/G1FZBp.

Indoor unit accessories table

Four-way cassette type (Q series)

Optional parts \ Model	HVR-28Q~160Q/G1FZBp	Description
Wireless remote control receiver	HYRC-T01H	Optional
Panel	HP-A-NA	Factory standard

Slim duct (ZF&KF Series)

Option parts \ Model	HVR-22~40ZF/G1FZBp HVR-22~71KF/G1FZBp	Description
Drain pump (external)	HPS-151	Optional
Wireless remote control receiver	HYRC-V01H	Optional

Low static pressure duct (F Series) & High Static Pressure Duct (FG series)

Option parts \ Model	HVR-22~160F/G1FZBp HVR-22~160FG/G1FZBp	Description
Drain pump (external)	HPS-151	Optional parts
Wireless remote control receiver	HYRC-V01H	Optional parts

Control System Configuration Table

Product Name	Model	Description
Wired Controller	HYXC-F01H	Apply to all indoor units, optional
Wireless Controller	HYC-Q01	Apply to all indoor units, optional
Central controller	HYJC-D01H/HYJC-D02H	Apply to all indoor units, optional
7-day timer	HYDC-D01H	Apply to all indoor units, optional

Efficient fresh air unit

Create a comfortable and healthy environment space

Fresh air processing unit is a fresh air process device to supply fresh air for the system. It can heat or cool the outdoor fresh air to near indoor temperature and send it to the room; the outdoor fresh air can be sent directly into the room after filtered without temperature process in transitional season, so as to save energy, and create a comfortable and healthy indoor environment.

Fresh air processing unit |XFSeries|

◎Fresh air processing indoor unit introduces fresh air, meanwhile other indoor units do not have to bear the fresh air load.
◎It can be controlled individually, or connected to centralized control system, with convenient control; site power distribution and wiring are simple.
◎The fresh air processing indoor unit can not only be used coordinating with outdoor unit separately, but also can be connected with other indoor units in the same system, flexible and convenient to use, suitable for the projects that need unified fresh air supply.
◎Higher external static pressure. Type 140: 200Pa; type 224 / 280: 220Pa. The adaptability of site installation is good, and it can install a longer duct.

Type140

Type 224 / 280

Precautions in the design and application of fresh air processing indoor unit

◎Fresh air processing indoor unit with large capacity cannot be designed and installed in the area or ceiling where people get together to perform activities, it should be installed in the equipment rooms such as dedicated machine room etc., and take measures of silence, shock-proof etc.
◎Need to install an air filter with dust removal efficiency of more than 50% at the air inlet.
◎Fresh air processing indoor unit should be used connecting to Hi-Multi outdoor unit, when the fresh air processing indoor unit and other indoor units are all connected to the same Hi-Multi outdoor unit, its equivalent cooling capacity is enlarged 1.5 times compared with rated cooling capacity, that is, calculate according to the following standards: type 90: 13.5kW; type 224,33.6kW; type 280, 42.0kW.
◎When Hi-Multi outdoor unit is only connected to fresh air processing indoor unit, the configuration rate was 100%.
◎When the field duct resistance is small and the fan speed is too high, the unit will appear the phenomena of abnormal shutdown, fault, water spray etc., and the duct pipe should be insulated to prevent generating dew.
◎Please ensure sufficient service space, please refer to technical information for detailed dimensions
◎When outdoor temperature is below 20℃ in cooling operation, the system will be automatically converted to ventilation operation. When outdoor temperature is higher than 15℃ in heating operation, it will be automatically converted to ventilation operation. When lower than -7°C, the fresh air processing unit will stop running.

Parameter table

Model		HVR-90XF/G1FZBp	HVR-140XF/G1FZBp	HVR-224XF/G1FZBp	HVR-280XF/G1FZBp
Power supply		AC1Φ，220V/50Hz			
Matched outdoor unit model		Hi-Multi series			
Rated cooling capacity	kW	9.0	14.0	22.4	28.0
Rated cooling power	W	140	300	480	500
Rated cooling current	A	0.75	1.40	2.2	2.3
Rated heating capacity	kW	8.6	13.7	21.9	24.5
Rated heating power	W	140	300	480	500
Rated heating current	A	0.75	1.40	2.2	2.3
Outer dimensions	high(H) mm	370	370	486	486
	width(W) mm	920	1320	1270	1270
	depth(D) mm	800	800	1069	1069
Air inlet dimensions	mm	833×306	1233×306	1100×415	1100×415
Air outlet dimensions	mm	803×220	1203×220	1106×338	1106×338
Noise value	dB(A)	40	42	44	45
Net weight	kg	46	60	110	110
Refrigerant		R410A			
Indoor unit fan speed	m^3/h	650	1080	1680	2100
External static pressure	Pa	60 (120)	200	220	220
Drain pipe dimensions		VP25 (Outer diameterΦ32,Inner diameterΦ25)			
Refrigerant liquid pipe dimension	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Refrigerant gas pipe dimension	mm	Φ15.88	Φ15.88	Φ19.05	Φ22.2
Inlet fresh air temperature range		Cooling：20~43℃，Heating：-7~15℃			
Control		Can be connected to H-NET, wired remote control, wireless remote control, central controller, 7-day timing controller (optional)			

Note : 1. Cooling capacity and heating capacity are tested in the following conditions:
Cooling conditions: 35℃ DB, 28℃ WB, pipe length 7.5m, pipe length difference 0.0m
Heating conditions: 0℃DB，-3℃WB，Pipe length: 7.5m, Pipe height difference: 0m;
(heating capacity is the value without defrosting)
2. Noise test conditions are as follows: At a distance of 1.5m from the unit surface
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

Modular fresh air processing unit | FASeries |

Modular fresh air processing unit is a fresh air process device to supply fresh air independently. The indoor and outdoor unit are connected one to one according to capacity ratio of 100%. For this kind of independent fresh air processing system, there is no need to consider its impact on other air conditioning systems in design and application, more easy and convenient to use.

Type280 / 335

Type450 / 560

Precautions in the design and application of modular fresh air processing unit

◎Fresh air processing unit with large capacity cannot be designed and installed in the area or ceiling where people get together to perform activities, it should be installed in the equipment rooms such as dedicated machine room etc., and take measures of silence, shock-proof etc.

◎Need to install an air filter with dust removal efficiency of more than 50% at the air inlet.

◎When the field duct resistance is small and the fan speed is too high, the unit will appear the phenomena of abnormal shutdown, fault, water spray etc., and the duct pipe should be insulated to prevent generating dew.

◎When fresh air processing unit is connected to outdoor unit, the configuration rate was 100%.

◎When the field duct resistance is small and the fan speed is too high, the unit will appear the phenomena of abnormal shutdown, fault, water spray etc., and the duct pipe should be insulated to prevent generating dew.

◎Please ensure sufficient service space, please refer to technical information for detailed dimensions

◎When outdoor temperature is below 20℃ in cooling operation, the system will be automatically converted to ventilation operation. When outdoor temperature is higher than 15℃ in heating operation, it will be automatically converted to ventilation operation. When lower than -7°C, the fresh air processing unit will stop running.

Indoor unit parameters

HP No.		单位	10HP	12HP	16HP	16HP	20HP	20HP	20HP	20HP
Product Model		—	HUR-280XF210 /FAFZBp	HUR-335XF300 /SFAFZBp	HUR-450XF400 /SFAFZBp	HUR-450XFG400 /SFAFZBp	HUR-560XF500 /SFAFZBp	HUR-560XFG500 /SFAFZBp	HUR-560XF600 /SFAFZBp	HUR-560XFG600 /SFAFZBp
Power supply		—	AC1Φ 220V/50Hz	AC3Φ 380V/50Hz						
Rated cooling capacity		kW	28.0	33.5	45.0	45.0	56.0	56.0	56.0	56.0
Rated cooling Power		W	500	680	720	1060	1060	1390	1390	1720
Rated cooling current		A	2.30	1.43	1.80	2.20	2.22	3.14	3.00	3.90
Rated heating capacity		kW	22.0	26.4	35.2	35.2	44.0	44.0	44.0	44.0
Rated heating power		W	500	680	720	1060	1060	1390	1390	1720
Rated heating current		A	2.30	1.43	1.80	2.20	2.22	3.14	3.00	3.90
Outer dimensions	H	mm	486	486	635	635	735	735	735	735
	W	mm	1,270	1,270	1,950	1,950	1,950	1,950	1,950	1,950
	D	mm	1069	1069	805	805	805	805	805	805
Noise value		dB	47	56	58	62	61	65	63	67
Net weight		kg	97	97	196	196	222	222	222	222
Refrigerant			R410A							
Fresh air processing unit fan speed		m³/h	2100	3000	4000	4000	5000	5000	6000	6000
External static pressure		Pa	220	220	200	300	200	300	200	300
Drain pipe dimension		mm	VP25	VP25	Rc1（Internal thread）	Rc1（Internal thread）	Rc1（Internal thread）	Rc1（Internal thread）	Rc1（Internal thread）	Rc1（Internal thread）
Connecting pipe dimension	Liquid side	mm	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Gas side	mm	Φ22.2	Φ25.4	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Inlet fresh air temperature range		℃	Cooling20～43℃DB，Heating-7～15℃WB							

Outdoor unit parameters

HP No.		Unit	10HP	12HP	16HP	20HP※
Model		-	HUR-280W/SFAFZBp	HUR-335W/SFAFZBp	HUR-450W/SFAFZBp	HUR-560W/SFAFZBp
Power supply		-	AC3Φ 380V/50Hz			
Cooling operation	Rated Power	kW	28.0	33.5	45.0	56.0
	Rated Power	W	9500	11500	15500	19000
Heating operation	Rated Power	kW	22.0	26.4	35.2	44.0
	Rated Power	W	9100	11000	14900	18200
Outer dimensions	H	mm	1720	1720	1720	1720
	W	mm	950	950	1210	1900
	D	mm	750	750	750	750
Floor space		mm^2	0.71	0.71	0.91	1.42
Product volume		mm^3	1.23	1.23	1.56	2.46
Weight		kg	210	227	310	420
Construction	Gas pipe diameter	mm	Φ22.2	Φ25.4	Φ25.4	Φ28.6
	Liquid pipe diameter	mm	Φ9.53	Φ12.7	Φ12.7	Φ15.88
	Maximum piping length	m	165	165	165	165
Height difference	Between indoor and outdoor	m	50/40	50/40	50/40	50/40
Noise	(Cold/hot)	dB(A)	58 dB(A)	60 dB(A)	62 dB(A)	61 dB(A)

※ 20HP outdoor unit is combined by two 10HP outdoor units; parameters such as floor space, volume and net weight are all double of 10HP unit.

Note： 1. Cooling capacity and heating capacity are tested in the following conditions: cooling conditions: 35℃ DB, 28℃ WB, pipe length 7.5m, pipe length difference 0.0m Heating conditions: 0℃DB，-3℃WB，Pipe length: 7.5m, Pipe height difference: 0m; (heating capacity is the value without defrosting)

2.Noise test conditions are as follows: At a distance of 1.5m from the unit surface The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

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