Reimagine your solution

Hisense VRF

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CONTENTS

THE SINGLE UNIT CAPACITY
UP TO 28HP

FOUR MODULE COMBINATION CAPACITY
UP TO 112HP

Hisense Hi-FLEXi S Series

HIGH EFFICIENCY

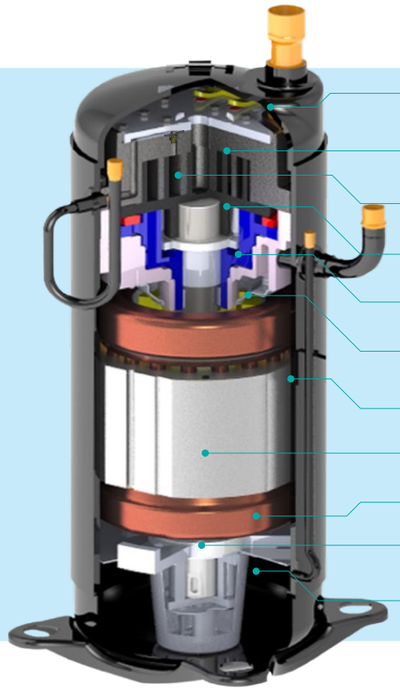
STRONG HEATING PERFORMANCE

Statistics shows that the central air conditioning consumes 40% to 60% energy of the entire building therefore energy-saving air-conditioning is essential for the modern building. Hisense Hi-FLEXi S series is our new advanced system which uses a new generation of enhanced vapor injection compressor and applies all DC inverter energy saving technology. The S series has more powerful heating capacity and is more energy efficient therefore perfectly meeting the energy-saving needs of the central air conditioning market.

New Generation of Enhanced Vapor Injection Scroll Compressors

Hisense Hi-FLEXi S series adopts a new generation of the high efficiency scroll compressor with the patented vapor injection technology*1. It can greatly enhances the heating performance and achieves high energy-saving efficiency. Powerful heating is guaranteed with the Hisense S series, especially in low temperature conditions where heating capacity is increased by up to 25%, compared with the normal model.

Note：*1. National patent acceptance number: a heat exchange cycle system and control methods and air conditioning, 201610909006.X



New Suction Structure
Increase efficiency at high speed and stability under large capacity.

Release Valve
Increase efficiency by reducing compression loss especially for medium and low capacity conditions.

Injection Valve
Heating performance improvement under partial load conditions by injection valve.

New Scroll Shape
High efficiency by asymmetric scroll shape.

Compliant Frame Mechanism
High performance technology by reduce leakage loss and friction loss.

Featured Discharge System
High reliability due to minimum oil loss at any condtion due to refrigerant flow out from center of compressor.

Oil Equalization Mechanism
Capacity can be enlarged by plural compressors and oil balance between plural compressors.

High Efficiency Motor
High efficiency by rare earth magnet and special designed motor.

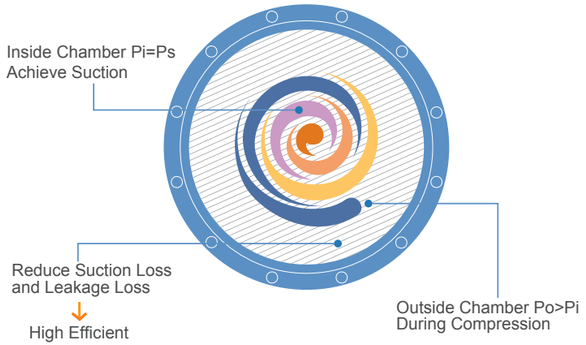
Oil Seperation
High reliability by keeping oil in the compressor by this separation plate.

High Reliability Oil Supply System
Oil supply system using pressure difference without any problem even at low speed or partial load condition.

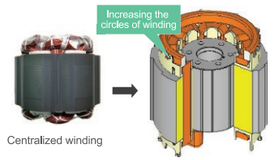
PVE Oil
Using PVE oil ensuring a high reliable and long life.

Asymmetrical Scroll Structure

The asymmetric scroll structure effectively reduces refrigerant gas leakage during suction and compression and enhances operation efficiency and reliability.



- A special design of double back pressure chambers' structure to improve energy efficiency and reliability of the compressor.
- The new involute scroll, using advanced materials, effectively reducing the friction and refrigerant gas leakage loss (ie, mechanical loss and pressure loss), and improves efficiency and reliability of the overall operation.
- The high pressure chamber design inhales directly reducing the loss of inspiratory overheating when compared to the low-pressure chamber compressor. This design greatly improves the compression efficiency.
- The compressor unloader valve effectively prevents over-compression of gas in the cavity and the increase of power consumption caused by the excessive exhaust pressure. This greatly improves the operation efficiency of the compressor at low and medium frequency so that the compressor runs more efficiently and steadily.

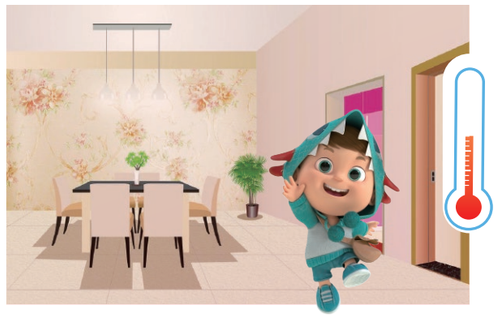


- The concentrated winding stator lowers the copper loss and increases higher compressor efficiency; the stator coil applies "keel motor" manufacturing techinique to enhance the compressor COP, and to further enhance the compressor efficiency under low load.

- The new 6-pole high efficiency rubidium magnet rotor core of motor rotor improves the motor efficiency and reduces noise of the motor.

Powerful Heating Capacity in Low Temperature

The system uses the vapor injection two-stage compression technology with intelligent defrost technology to achieve strong heating efficiency at low ambients which ensures the strong heating capacity even under -15℃. This enables the system to reach the set temperature quickly and efficiently. Energy saving and the environmental protection effect can therefore be guaranteed by Hi-Flexi S series.



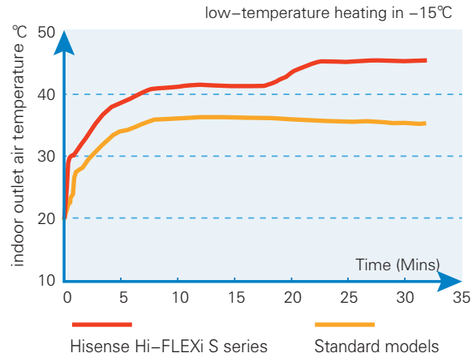
Rapid Heating in Low Ambients With High Outlet Air Temperature

When the Hi-FLEXi S Series is operating under a low outdoor ambient of -15 ℃, the outlet air temperature of the indoor unit can reach to 40 ℃ or higher* in a short time. The outdoor unit has a fast and powerful heating performance, so it can offer you a warm and comfortable environment in cold conditions.

This experimental result is based on the 10HP outdoor unit and 2 indoor units

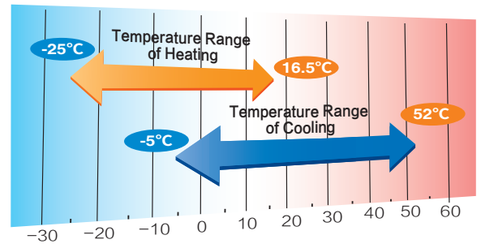
Experimental conditions:
Outdoor suction temperature: -15 °C(dry bulb),
Relative humidity：75%,
Indoor unit suction temperature：20°C(dry bulb), high air volume.
Length of indoor and outdoor pipes: 6 meters.
Measurement sites: constant laboratory.

Note: The actual heating time is diverse from the heat load, selected models and building maintenance structures.



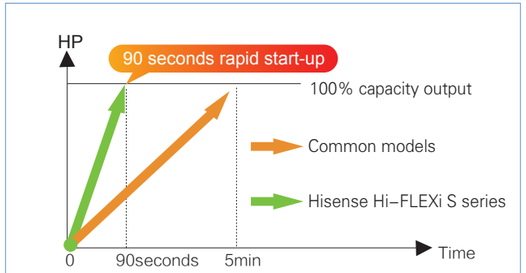
Wide Operating Range Meets Greater Demand

With a wide operating temperature range, the outdoor unit can operate from -25°C to 16.5°C. The heating effect in winter is strong, which perfectly meets the customers' needs in different environments. The unit is able to operate in -25°C ambient, when the unit is heating mode. and also operate at 52°C ambient in cooling mode.



Rapid Heating Start-up

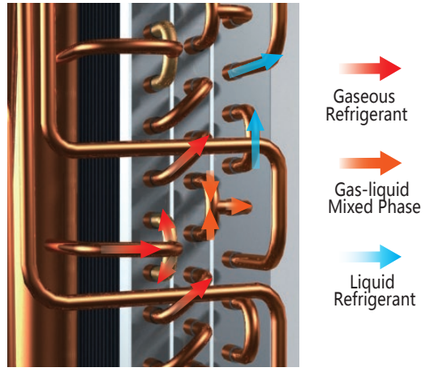
Combing the soft start of DC inverter compressor and rapid start of fixed speed compressor, the system can achieve 100% heating capacity output instantly to meet the air conditioning demand.



*Taking 66HP as an example

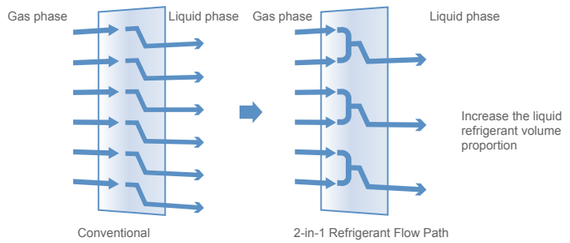
The New G-type Heat Exchanger, More Efficient and Powerful

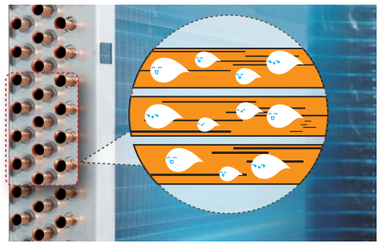
The outdoor unit is equipped with a newly designed high-efficiency G-type heat exchanger, which greatly enlarges the heat exchange area and the efficiency. By using double electronic expansion valves in the shunt system, the heat exchanger achieves partition control, the refrigerant load distribution is more reliable and therefore the overall heat transfer performance is extremely efficient. The heat exchanger, using the internal thread copper of high thermal conductivity with the diameter of Φ7.0mm and new fins reduces the air flow resistance and makes heat transfer more equably and greatly improves heat transfer efficiency. The decrease in the frosting amount of the heat exchanger in winter greatly improves the heating efficiency.Through a specially designed refrigerant flow process of two-in-one-out, the heat exchanger is more efficient and effectively improves the subcooling degree of the system.

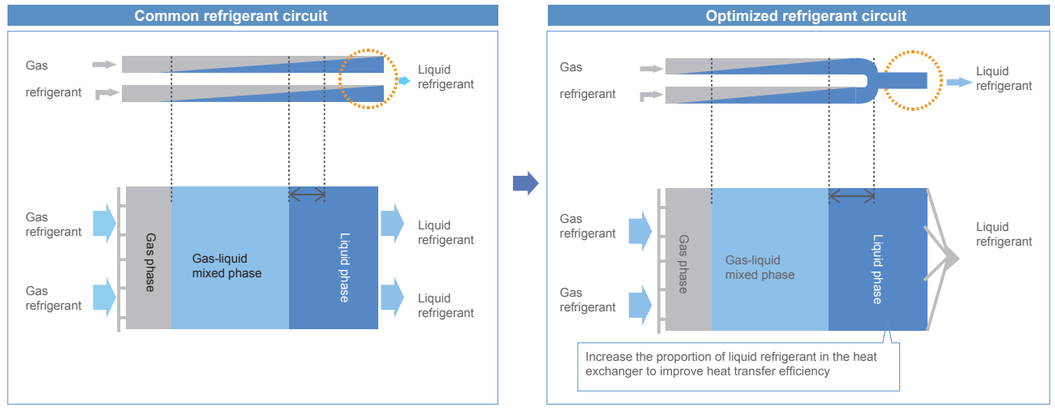


– Optimized Refrigerant Circuit

Using high precision imported equipment, our Hisense manufactured heat exchangers are of the highest quality. The non-expansion tube technology avoids reduced lifetime reliability caused by th stretching of copper pipes. The multi-column Φ7 refrigerant tubes effectively increase the heat exchange area and improve the heat exchanging efficiency.

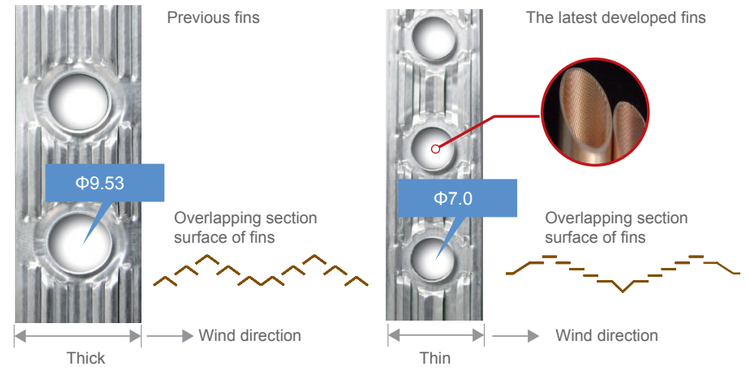




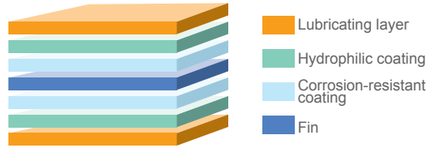


– High-efficiency Inner Grooved Tube and Stepped Fins

Hisense new step-like high-efficiency heat transfer coils use new low-pressure-loss fins and copper tubes.



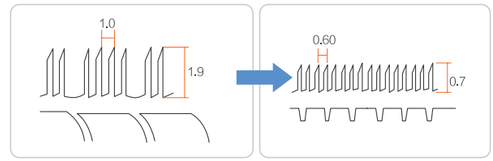
Hierarchical diagram of hydrophilic aluminum foil



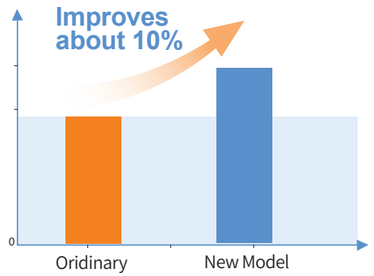
- Not easy to frost in heating mode;
- Slow down the corrosion of heat exchanger by corrosive gases;
- Destroying the surface tension of water droplets accelerates the down flow speed of defrost water or condensate water and improves the air conditioning performance.

– Improved Super-cooling

The optimization of finned tubes, increasing of fins number and reducing of height on the basis of traditional secondary super-cooler reduces its pressure loss, increases coefficient of heat conduction and improves super-cooling performance.

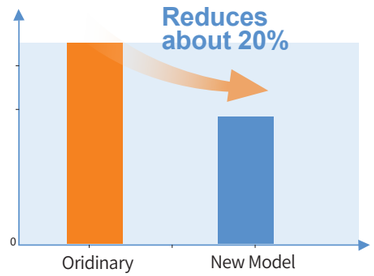


The heat transfer efficiency improves 10%



The diagram of heat deliver efficiency

The ventilation resistance reduces 20%

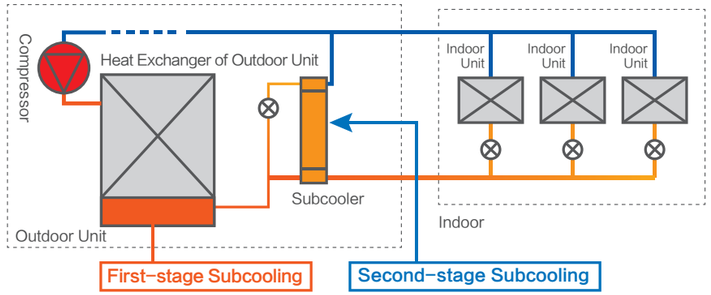


The diagram of ventilation resistance efficiency

Two-stage Sub-cooling; Bigger Capacity and Longer Pipe

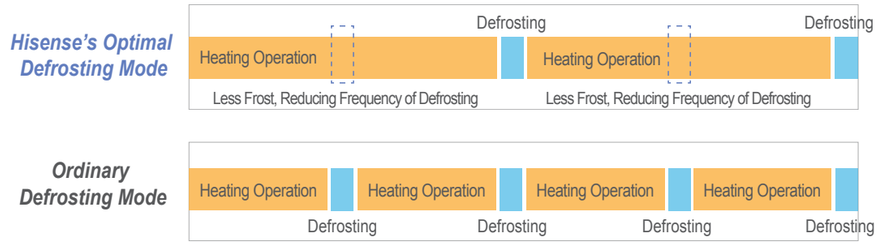
The Cooling section of the outdoor heat exchanger is uniquely designed to be more effective than the traditional outdoor units of the multi-split air conditioner without a sub-cooling design. First stage sub-cooling can lower tempertaure by 12.5℃ whilst two stage sub-cooling can reduce the temperature by 27℃ thus realizing as a far more efficient re-cooler.

- ◎ Increasing cooling capacity of the unit refrigerant
- ◎ Reducing the resistance when refrigerant flowing in pipelines
- ◎ Increasing sub-cooling degree, more accurate controlling of electronic expansion valve, more stable operation
- ◎ Increasing sub-cooling degree , increasing the length of refrigerant pipe



Intelligent Defrosting, Efficient and Powerful Heating

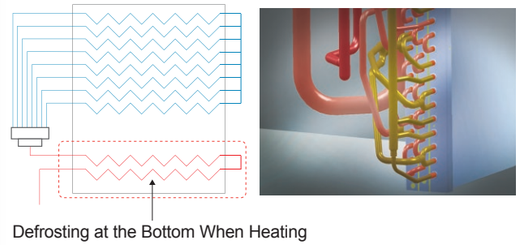
Hisense Hi-FLEXi S series upgrades its intelligent defrosting technology, optimizes the defrosting control, and has a variety of intelligent defrosting modes which can be selected for different regions to realize the best defrosting operation whilst shortening defrosting time and guaranteeing better hearting effect. According to the outdoor temperature sensor, heat exchanger sensor and evaporation pressure sensor of the heat exchanger, the outdoor unit can defrost with variable parameters, accurately seizing the opportunity to defrost, and effectively solve the problems related to defrosting in winter. As a result, the outdoor unit will not frost frequently, and the amount of frost per unit time significantly reduces only accounting for 1/3 of the frost under ordinary defrost mode, therefore, ensuring the heating effect in winter. A unique frost-proof structure at the bottom and a two-in-one-out heat exchanger ensure that there is no frost at the bottom of the outdoor heat exchanger and the ice water mixture left along the fins can be fully heated to the liquid state and drained through the bottom drainage holes to avoid the poor heating performance caused by frost accumulation.



The ordinary defrost mode of the multi-split air conditioner only refers to time, temperature of the outdoor temperature sensor and temperature of the heat exchanger sensor, while Hisense's pressure-based-defrost mode, based on all above, innovatively introduces the pressure sensor to sense the pressure signal (Pressure) to defrost through variable parameters such as pressure, temperature and time parameters at best time.

– New Anti-frosting Design at The Bottom

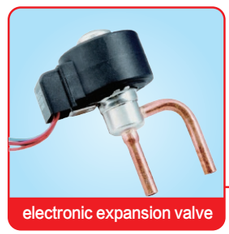
Advanced design for protection against frost at the bottom ensures the outdoor heat exchanger to be frost-free while heating in winter. The ice water mixture left on the fins can be fully heated to be liquid while defrosting and be discharged through drain holes in the base, avoiding poor heating results caused by frost accumulation on the coil.



Defrosting at the Bottom When Heating

Multi-electronic Expansion Valve Control Technology

There are more than one high-precision electronic expansion valves installed in the outdoor unit. The electronic expansion valve can quickly respond to the changes of the outdoor environment and indoor load. The unit refrigerant flow can be regulated by the indoor electronic expansion valve. With the control range of 2000 steps, the indoor temperature fluctuation is minimal and the indoor environment is more comfortable.



outdoor unit profile

STABLE OPERATION

WITH HIGH INTELLIGENCE

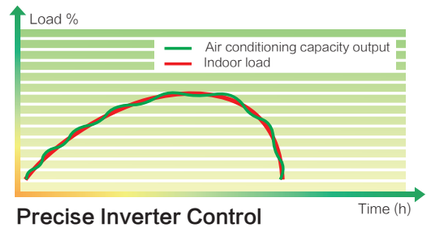
Hisense Hi-FLEXi S series has an innovative structure appearance. It applies a variety of intelligent technologies which achieves intelligent operation from component selection to unit operation. A full range of controls ensure the stability of the system and due to the high level of technical support platform from Hisense VRF the operation is more reliable and efficient.

Full DC Inverter Energy-saving Technology, High Energy Efficient and Reliable

DC Frequency Inverter Technology in Compressor

Stepless Frequency Conversion Control Technology

Hisense VRF adopts a high-precision inverter compressor with an adjustment range of 0-450Hz and the control accuracy is 0.01Hz. The operating speed of outdoor DC inverter compressor can be adjusted continuously and freely, which does not only improve user experience, but also enhances the energy efficiency of the unit.



Precise Inverter Control

The Latest Dual FOC 180 Degree Sine Wave DC Variable Speed Drive Technology

Using the top inverter controller of the industry, this product is an upgraded version of the current mainstream IGBT inverter controller. With small size, high precision, and internal self-protection control (over voltage, under voltage, phase, phase error, over current, overheating, etc.), the inverter controller is significantly improved in control accuracy and reliability.

New Generation of Power Sharing CIB Dual-module Inverter-driven Technology

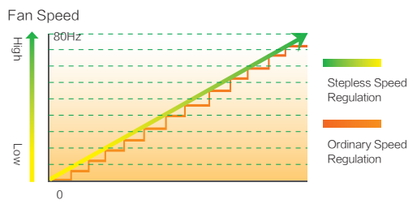
The inverter adopts double FOC 180° vector sine wave drive algorithm to drive the compressor motor in dual mode and possesses various protective functions against over current, over voltage, under voltage, short circuit, modules and heat sinks temperatures, power phase loss, bus voltage fluctuations and communication failures to ensure the efficiency and reliability. In the high frequency band, the two-phase over-modulation technology improves the utilization of the voltage, and increases a substantial output voltage and then reduces the module current so as to greatly decrease the module's heat loss. In the low frequency band, the torque compensation technology reduces the compressor vibration and the machine noise and greatly improves the module's reliability and efficiency. At the same time, the integrated CIB module also makes the electrical system and electrical box with a better layout and better design, this effectively reduces the electromagnetic interference and further improves the reliability of the drive module.

Fans of Outdoor Units With Variable Speed Control, More Efficient and More Stable

DC variable speed motor are used on outdoor fans which increases the motor efficiency by 40 percent and significantly reduces the power consumption. Matching the stepless frequency conversion technology of the compressor the fans carry out stepless speed control with high precision influenced by the environmental conditions and air conditioning load conditions therefore ensuring that the system runs more steadily and reliably.

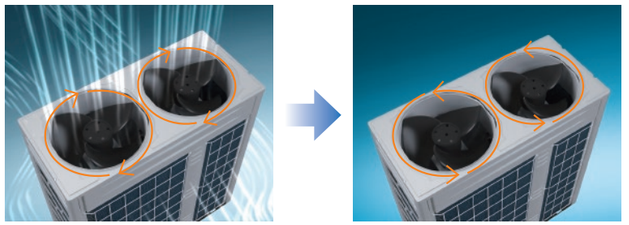
– Stepless Frequency Conversion Speed Control of Fan

Ensure stability of compressor discharge pressure and suction pressure to improve unit reliability;
Ensure stability of unit dynamic distribution of refrigerant flow and capacity of indoor unit;
Quickly control response speed of system to better meet the needs of load changes of the air conditioner.



– Fan Protection

Convection



Instantaneous reverse rotation with sudden increased torque may cause damage to the blades

External forces make the fan Counter-rotate

Fan Protection Function

External forces make the fan Counter-rotate

the fan stops before the unit starts

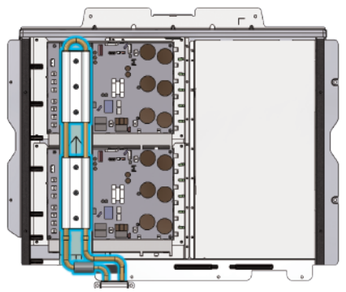
Forward rotation with small starting torque, protect fan blades

Brand New Appearance, Fashionable & Durable

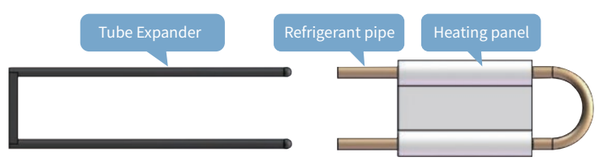
The strong frame and thick steel support for the motors guarantee operation stability and reliability. The panels of the outdoor unit and the mechanical compartment can be disassembled and installed separately which provides convenience for the installation, maintenance and trouble shooting of the unit. Ventilation holes on the side panels of the outdoor unit can effectively reduce the ventilation resistance, increasing the ventilation volume thus enhancing the heat exchange efficiency of the heat exchanger.

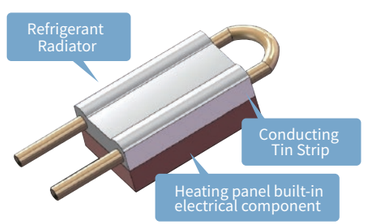
Patented 360° Perfectly Fitted Refrigerant Cooling Technology, More Reliable Cooling System

With the patented 360° refrigerant cooling technology, Hi-FLEXi S Series will stably and efficiently remove the heat from the main control board, inverter module and outdoor unit's electric box to improve the electrical reliability of the unit when operating under high ambient conditions. This ensures stability and safety of operation and also, it prevents poor heat dissipation caused by the fan cycle rotation or during stop mode.



◎The refrigerant heat sink is made by aluminum alloy with high thermal conductivity, and the internal mechanical tube expansion processing makes the copper tube 360 °fitting.
◎ A thermal pad is added between the refrigerant radiator and the heat sink built-in the electrical component to increase the heat transfer efficiency. Made by imported lead-free solder film with high thermal conductivity, the thermal pads greatly improve the overall performance.





National Patent Number:
1.Processing method of refrigerant radiator, air conditioning and refrigerant cooling, 201710413663.X
2.Refrigerant heat sink and air conditioning, 201720645923.
3.Testing device and method of a refrigerant radiator, 201710456157.9
4.Testing device and method for refrigerant heat sink, 201710601662.8

Accurate Self-diagnosis and Self-regulation for System Pressure and Temperature

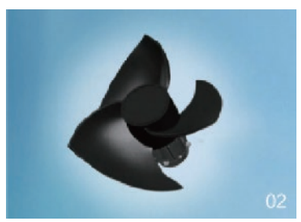
– Fast and Accurate Pressure Sensing Technology

Incorporating high precession pressure sensors the outdoor unit can control the system pressure with optimal accuracy. Real time data collection being fed back to the main PCB results in accurate control of the system pressure enabling efficient and reliable operation.

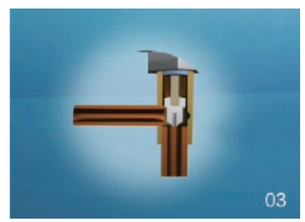
Combined with compressor frequency control, fan operating speed and electronic expansion valve opening degree, the pressure sensing technology adjusts the condensing pressure and evaporation pressure of the system to an optimal condition, therefore, ensuring stable operation, timely protection and a longer life for the unit.

Pressure Sensor

Compressor Frequency Control



Fan Operation Control



Electronic Expansion Valve Opening Degree Control

– 32-bit MCU and High-speed Transfer Bus

32-bit MCU data processing combining with the high-speed transmission bus can do multitasking of signal processing including outdoor unit control, indoor unit control, temperature control, compressor frequency and fan speed enabling the system to maintain the stability while ensuring efficient operation and realizing non-polarized communications of high speed and high efficiency.

32-bit MCU Data Processing

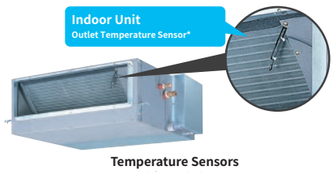
– Flow Control

Utilizing the microcomputer electronic expansion valve, the indoor unit incorporates automatic regulation function of 2000-level which can carry out precise automatic flow regulation with a more accurate temperature regulation and better energy-saving according to the actual indoor load.

Electronic Expansion Valve of 2000-level

– Temperature Sensing

The multi-point temperature sensors can carry out real-time detection and feedback about the outside temperature, indoor temperature and outlet air temperature therefore analyzing and regulating the system output through the main controller of the system.



Temperature Sensors

Note: Only for partial indoor units

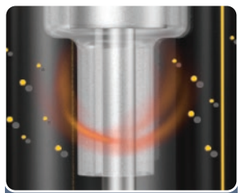
Multiple Oil Separation Circuits Ensuring High Efficiency and Reliability

Utilizing multiple oil separation technology, oil return and advanced system control the oil balance between outdoor units can be maintained ensuring the stable and reliable system operation with oil return of up to 99%.

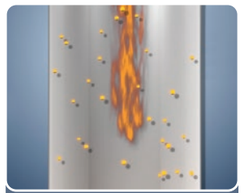
– Multistage Oil Separation Technology

With multiple oil separation technology, through components such as barrier oil separation, centrifugal oil separation and gravity oil separation in the high-pressure chamber, industry leading internal multistage oil separation is carried out. Utilizing technology of oil supply through pressure differences and intelligent oil level control maintains a stable internal oil level with only a small amount of oil loss from the compressor. After the compressor, the small amount of oil discharged is re-separated by a high-efficiency centrifugal oil separator of large capacity and a gas-liquid separator. The overall separation efficiency is up to 99.9% or more.

Barrier Oil Separation



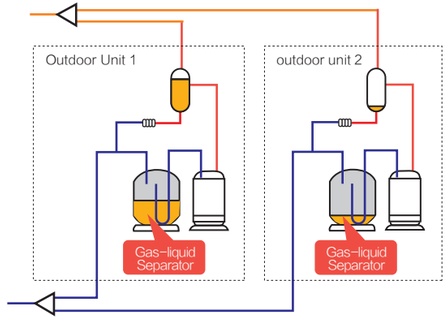
Gravity Oil Separation



Centrifugal Oil Separation

– The First Stage Oil Return Control

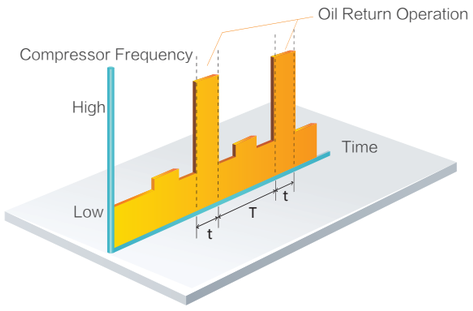
Using porous oil return technology, the gas-liquid separator with a built-in high-efficiency fine mesh keeps the oil balance between modules.



– The Second Stage Oil Return Operation

The system carries out oil return operation according to the compressor operating frequency and corresponding operating time, thus avoiding oil remaining in the indoor or outdoor heat exchanger when system runs with low load for a long time causing compressor failure by the lack of refrigeration oil. The oil return operation lasts only 60 seconds, after which, it will automatically return to the former status.

When heating in winter, there is no need to change the mode to carry out oil return operation, achieving oil return without stopping operation and a better heating effect.

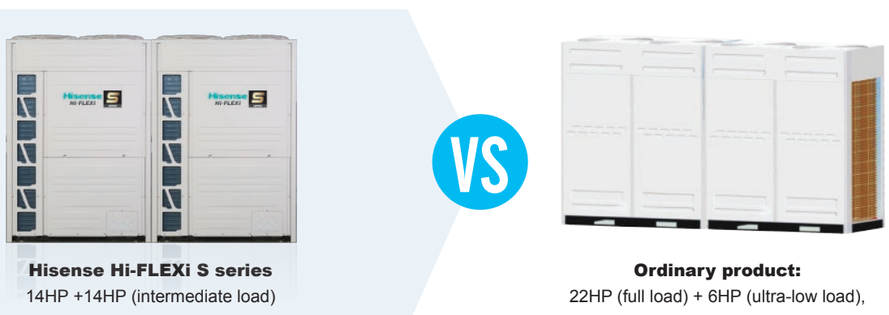


Two-pipe Even Oil Control

By coordinating the oil discharge and oil return in the compressor, gas-liquid separator and oil separator, the automatic balance of the lubricant between each outdoor unit can be adjusted without using oil balance pipes, which eliminates the fluctuations like system pressure, temperature etc. By eliminating oil balance pipes this simplifies, simplifying the installation and improves the operation stability and comfortability.

Intelligent & Accurate Unit Capacity Allocation

Tests show that multi-coupled air conditioning unit reaches its highest efficiency and the lowest power consumption at 40% to 75% of its full load.
Eg: Each module load distribution of 44HP unit (double module full load) at 28HP load



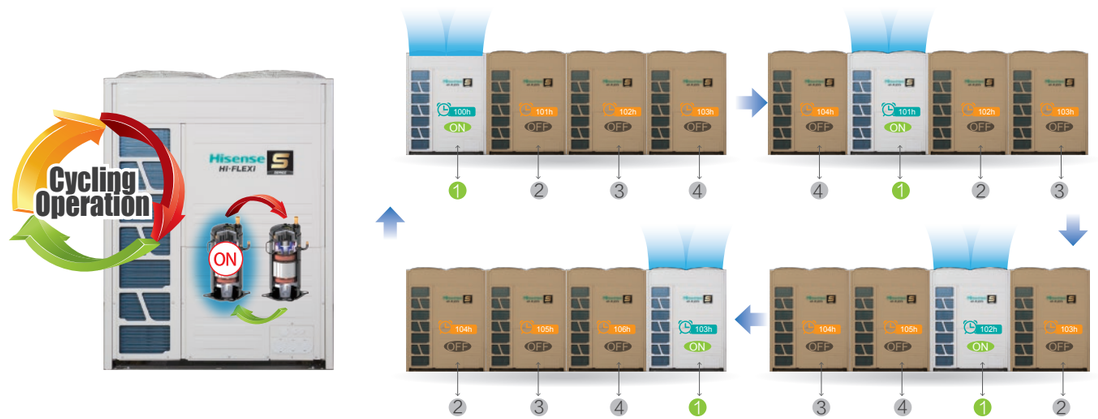
Hisense Hi-FLEXi S series
14HP +14HP (intermediate load)

Ordinary product:
22HP (full load) + 6HP (ultra-low load),

Load Sharing Operation Ensuring Long-life and Reliability

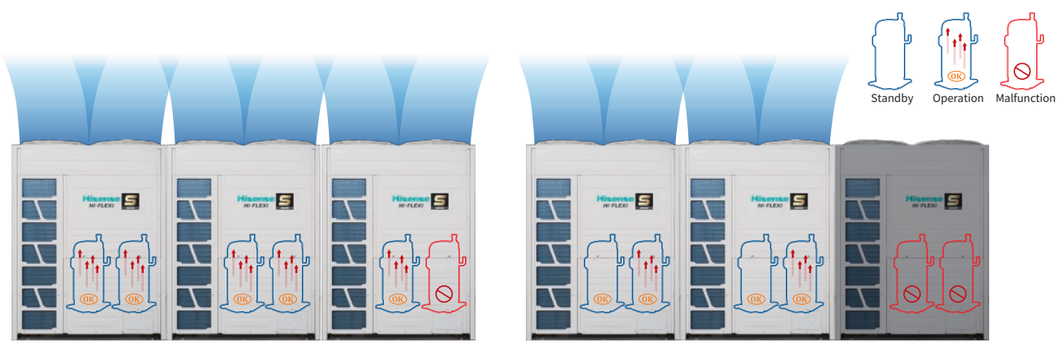
– Rotation Technology

Through the rotation technology, the running time of each outdoor unit is shared ensuring longer service life and durability for each system.



– Dual Backup Operation

The outdoor unit has dual emergency functions. As for the first backup, if one of the two compressors in the outdoor unit fails (12HP or more), the other compressor can run in emergency. As for the second backup, if one outdoor unit in a system of more than 16HP fails then the alternative outdoor unit can operate in emergency mode.



First Backup

Second Backup

Multiple Protections Ensuring Safer and More Stable Operation

Compressor Protection
- Compressor suction
- Exhaustion pressure protection
- Compression ratio protection
- Exhausting temperature protection
- Oil return protection

Inverter Protection
- Inverter temperature protection
- Voltage protection

System Protection
- Ventilator pressure protection
- Four-way valve protection
- Indoor and outdoor temperature protection
- Subcooling protection

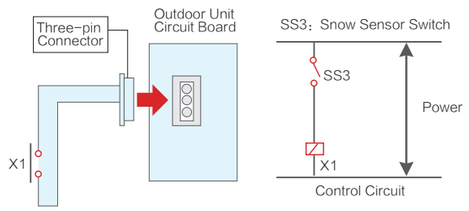
Electric Protection
- Voltage phase-failure
- Current protection
- Motor protection
- protecting from Lightning

Automatic Repair of Electronic Control Circuit

Under adverse malfunction conditions that can cause damage to the multi-split air conditioner like extreme high temperature, excessive current, high or low refrigerant pressure, the electrical control circuit will start its automatic repair function and repair the refrigerant circuit to ensure the unit runs at an appropriate temperature, current, refrigerant pressure, thereby increasing the reliability and extending the service life of the unit.

Automaticly Protecting From Snow Accumulation

Under extreme weather of snowstorms, even if the outdoor unit is covered by snow and no signal received, the outdoor fan motor will start to run at full speed, preventing the outdoor unit from being covered by snow. When users begin to use air conditioners, the fan will turn back to the normal operation mode.

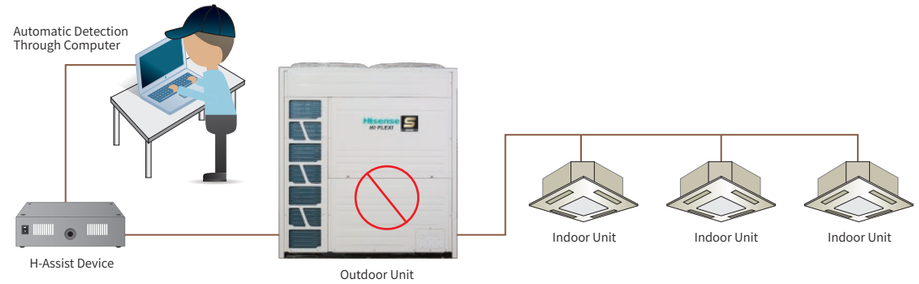


Work Diagram of Resisting Wind and Snow

* This function requires an optional function accessory.

Intelligent Detection

The specially designed H-Assist device (intelligent detection assistant) can automatically detect the systems running condition. With real time monitoring, system parameters, trouble shooting and preventative maintenance can be managed.

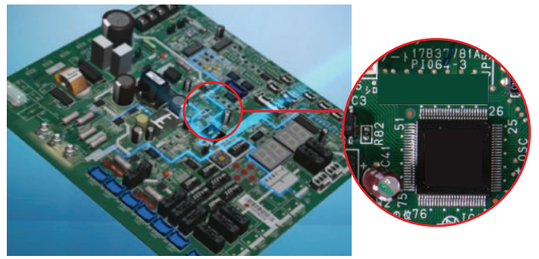


Intelligent Judgment for Pipeline Malfunction

Based on the high pressure sensor and the low pressure sensor and combining with the compressor discharged air temperature sensor, the system can carry out real time monitor on refrigerant operation, detect and judge the pipeline problems (such as pipeline connection error, leakage, etc.) in time, avoiding further malfunction or damage.

Error Information Storage "Black Box"

Both the main computer board and the wired controller of the outdoor unit can store error information so that the maintenance personnel can detect the operation information before the malfunction and determine the cause.

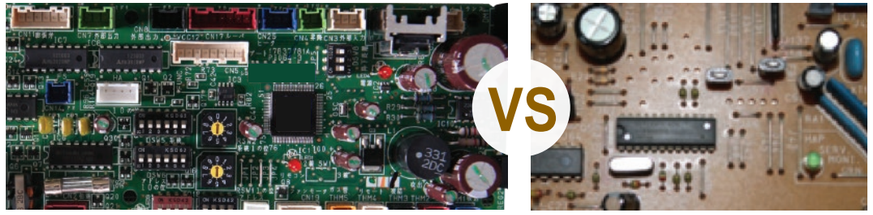


Lightning Protection

The outdoor unit has advanced lightning protection module which has functions of anti-interference and lightning protection, to prevent system failure and reliable performance.

PCB Substrate

Indoor and outdoor substrates are made of double sided resin PCB board with high integration level, which make maintenance and repair simpler.



Hisense PCB board:

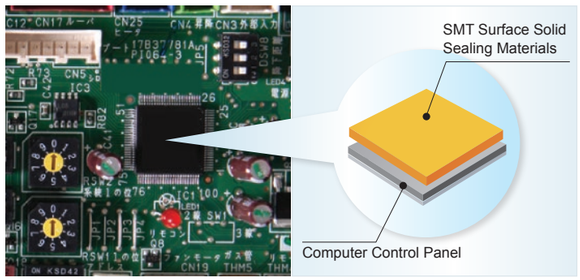
Epoxy resin composite substrate: double-sided printing, SMD welding, high strength, good weather resistance, great flame retardancy, high reliability, compact structure, small size.

Ordinary PCB board:

Paper-made phenolic substrate: single-sided printing, inserting welding, bad weather resistance, less flame retardancy, big size.

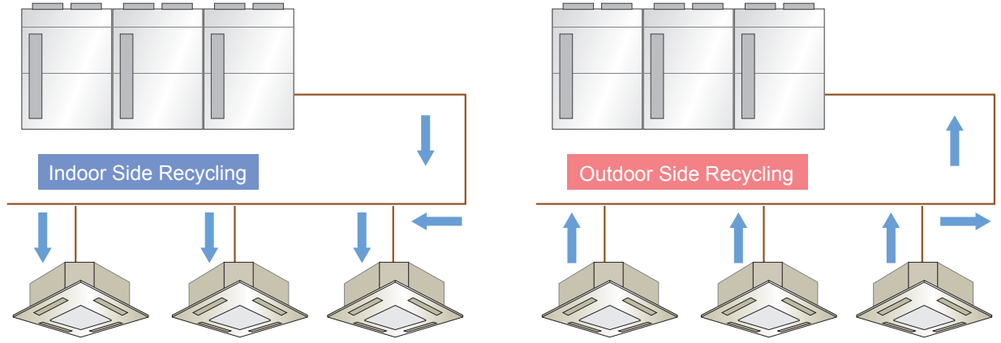
– Control Panel of High Reliability

The SMT sealing technology, through strict optical inspection, low temperature environment test, high temperature environment test, on-line inspection, functional inspection, and vibration and stress test, can effectively improve the anti-interference ability of the control panel without being affected by smog, sand storm, high temperature and humidity, and significantly improve the anti-corrosion performance.



Refrigerant Automatic Recycling Technology

When the system needs maintenance, the refrigerant can be automatically recycled into the storage tank, outdoor unit heat exchanger, or the side of the indoor unit.



Indoor Unit Power-down Emergency Maintenance

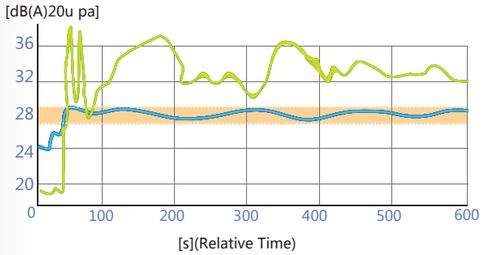
When a faulty indoor unit needs repairing, it can be powered off alone without affecting the entire system.

USER-FRIENDLY
EXPERIENCE

In order to enhance user experience and pursue harmonious coexistence between human and ambient environment, Hisense Hi-FLEXi S series focuses on improving the quality of the environment by handling and controlling air temperature, humidity, speed and air cleanliness, This will create a healthy and comfortable environment for all users.

WHAT IS HIGH QUALITY MUTE?

Low decibel does not mean the true tranquility. More importantly, the control of sound quality matters. Hisense joins hand with Danish B & K and Belgium LMS Vibration Testing System to create a high standard anechoic lab(that is, echo-free anechoic chamber), strictly controlling and processing the sound, reducing various irritable high-frequency, broadband and abnormal sound to creat a more quiet environment.



Ordinary Product Upgraded Hisense Product

Note: This picture shows the laboratory measurement of operating noise of Hisense indoor unit products and ordinary indoor unit products when the indoor unit air-feeding stall is set to highwind gear under standard cooling conditions, of which the Hisense product models are Type 22 thin duct indoor unit.

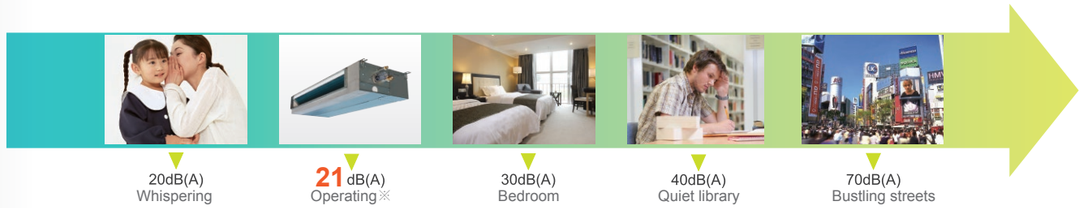
15 Mute Technologies Offer You A Quiet and Comfortable Environment

– Advanced Mute Design, Ideal Mute Environment

At present, more and more people are beginning to pay attention to the quality of their living environment, which forms part of their high quality of life. Hisense central air conditioning systems are concerned about peoples physical and mental well being and therefore focus on creating the most comfortable environment by attentively creating a harmonious and healthy atmosphere.

– Noise Control of Indoor Unit

Based on the application occasions of the indoor unit and its structural characteristics, R&D Personnel of Hisense do research on technical aspects and installation methods to reduce the noise levels in several aspects, such as electric fan motor, fan blades and duct layout, ensuring that users enjoy a quiet and comfortable air-conditioned environment



Note: The number is measured at low-speed operation in the non-echo muffler room.

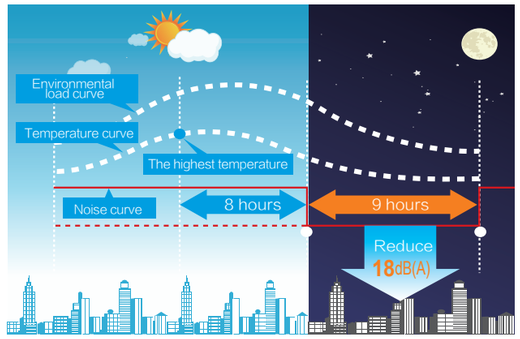
− 15 Mute Technologies Offer You Quiet and Comfort

The Hisense R&D personnel research is ongoing and due to continuous feedback of indoor and structural characteristics, the search for ease of installation, reduced noise levels of all components is explored. Hisense strive for excellence continues so that end users can enjoy a quiet, healthy and comfortable environment.

- New energy efficient & low noise DC inverter compressor
- DC inverter electric fan motor
- Motor supporting frame shock absorption design
- Exhaust pipe mute design
- New compressor sound insulation processing
- New air guide structure
- New high efficiency axial fan
- Refrigerant flow mute technology
- Capacity priority mode
- Night mute function
- Compressor injection circuit mute design
- Integrated CIB module, low electromagnetic noise design
- 3D simulation of pipeline shock absorption design
- Outer shell shock absorption design
- New air grille

− Automatic Mute Mode

The outdoor unit, with automatic night mute setting function and mandatory mute function, has 9 mute modes that can be selected. When the outdoor unit is set to night mute mode, the unit will operate silently according to the outdoor ambient temperature so that the minimum noise of the operation of the outdoor unit at night is only 42 dB(A), reduced by 18 dB(A) compared with daytime. (Taking product model 10HP as an example)



− Electronic Fan Motor Mute Processing

The flexible damping enclosed motor ensures more effective noise insulation. Cast aluminum is adopted as manufacturing material for the electronic fan motor so that lower noise will be obtained. The motor bracket adopts non-resonant hanger structure to ensure the stable performance of the motor and reduces the vibration noise.

− The New High Efficiency Axial Fan

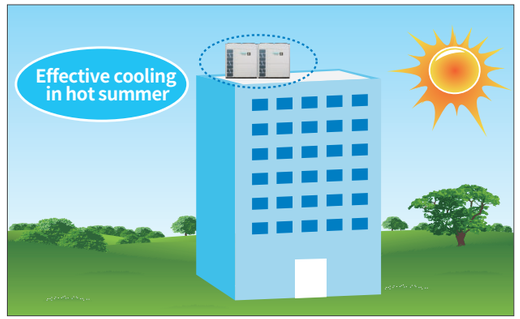
The new high efficiency axial fan can reduce turbulence around the fan by up to 60% with even lower running sound. The use of noise reduction mica composite materials with good sound-absorbing effect can significantly reduce the "buzzing".

Optimize the axial air outlet angle and radial air outlet angle

Intelligent Unit Operation and Control

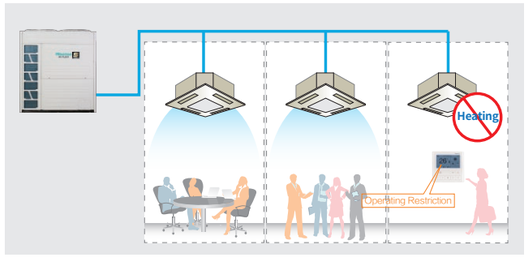
– Operating Mode Control

The cooling and heating control mode of the controller can be preset to avoid user's complaints because the conditioner is set differently in various rooms during transitional seasons. Once set, the unit will operate only when the preset mode is selected.



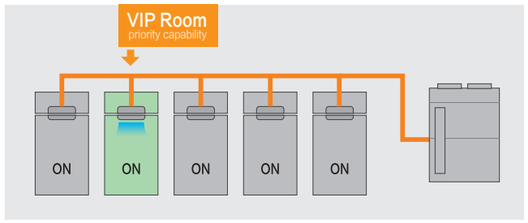
– "Preconceived" Control

When the system is in operation, if mode conflict happens on one indoor unit, "Operation Restriction" will be displayed on that indoor unit to remind the user while the rest of the units will operate without stopping or alarm indication.



– Special Vip Mode Comfortable Private Custom

In the system, the "VIP priority mode" can be set for important air-conditioned rooms. When the system output is limited, the VIP rooms will take the priority to be served.



– Intelligent Self-cleaning Function of Outdoor Unit, Automatic Dust Removal

When the outdoor unit is in initial operation, the fan motor runs in the reverse direction and automatically removes the dust on the heat exchanger achieving intelligent self-cleaning.

– Automatic Addressing

The system automatically allocates the address to the indoor units, which is suitable for the large system with multiple indoor units, without manual dialing.

– Access Control

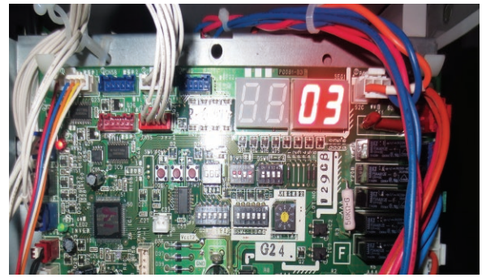
The function setting of room card and access control can achieve the linked control for hotel room management or smart home system. When the key card inserted the air conditioner starts to work and executes the memorized mode which can avoid waste of operation.

– Fire Control Function

The Indoor unit function interface can be linked with the building's fire protection system. When a fire alarm beeps, the system will automatically shut down to ensure safety.

– Fault Parameters Display

The system automatically stores and displays the parameters of different diagnostics. By adjusting the main control panel keys of the outdoor unit's, four 7-segment high-brightness digital display tubes can show the real-time fault parameters, which is convenient for after sales service troubleshooting and maintenance.



– Automatic Restart After Power Failure

The system will automatically save the setting memory when the power off occurs for a long time. The system will restart automatically when the power is restored (or set to manual start). The set points before the power failure will not be erased but will be stored allowing the setting to take affect eliminating the need to re-set all the procedures which is more intelligent and cost effective.

Normal operation before power off

1

System (with memory storage) stoping running after power off,

2

Back to the original state when power reset

3

New Energy-saving Operation Mode, Intelligent Power-saving Control

Due to the imbalanced demand for power supply, there will be power shortage in summer, and some cities will introduce the corresponding power rationing measures. Hisense Hi-FLEXi S series unit can automatically identify the running mode of the whole unit to provide three kinds of energy-saving modes in response to the electricity restriction because of the power shortage. Meanwhile, the new designed standby power-saving mode can automatically cut off the power supply of the inverter board, entering the power-saving mode with zero power consumption when the inverter stands by, therefore, reduce unit power consumption effectively.

The unit can be set to automatic energy-saving operation mode to reduce the power consumption, through which the maximum of 15% energy can be saved.

The unit has self-controlled power-saving mode. By limiting the operating frequency and operating current, the unit can save power respectively by 20%, 30%, 40%, and 60%.

The unit has the wave band energy-saving mode. The design of limiting power output during certain time phases can reasonablly balance comfort and energy saving and save energy up to 20%.

Environmental Protection Concerns, Creating A Low-carbon Living Space

Environment-friendly Refrigerant

Hi-FLEXi S series products use the efficient and reliable R410A green refrigerant which is non-toxic to humans and will not damage the Earth's ozone layer to create a comfortable and clean living environment for you.

– Actively Responding to The Rohs Directive

RoHS is short for Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment. The directive bans the use of the following six hazardous substances in electrical and electronic equipment including lead, mercury, cadmium, hexavalent chromium, polybrominated diphenyl ethers (PBDE), and PBB. Actively responding to the European RoHS Directive, Hisense has implemented a series of procedures and measures to control hazardous substances. The directive is intended to protect human health and ensure the recycling and the processing of waste electrical and electronic equipment to meet environmental requirements.

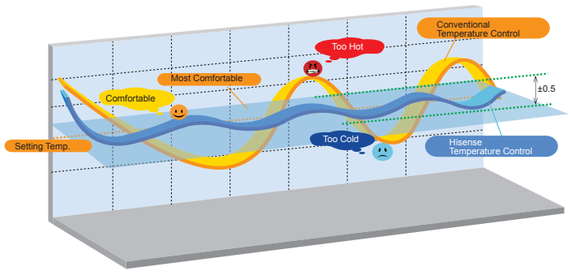
Substances	RoHS limits	Typical Testing Meethods
Lead	1000ppm	Wet chemical treatment or X-ray fluorescence
Cadmium	100ppm	Wet chemical treatment or X-ray fluorescence
hexavalent Chromium	1000ppm	Wet chemical treatment or X-ray fluorescence
Mercury	1000ppm	Wet chemical treatment or X-ray fluorescence
PBB/PBDE	1000ppm	GCMS,FTTR, or X-ray fluorescence

Smart Controller, Simple Human-computer Interaction

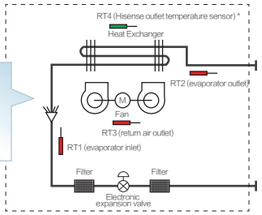
Hisense's diversified controllers are smart and exquisite with convenient and flexible practices. It allows users to choose according to their needs and brings a new feeling of comfort and intelligence.

– Outlet Temperature Sensor, Three-dimensional Temperature Sensing Design, Precise Temperature Control

Traditional multi-split air-conditioners control the room temperature according to the indoor return air temperature sensor. Hi-FLEXi S series adds a wired remote control temperature sensor and air temperature sensor *. The air temperature sensor, return air temperature sensor and room temperature sensor will successfully calculate the indoor temperature precisely adjusting the room supply air temperature.



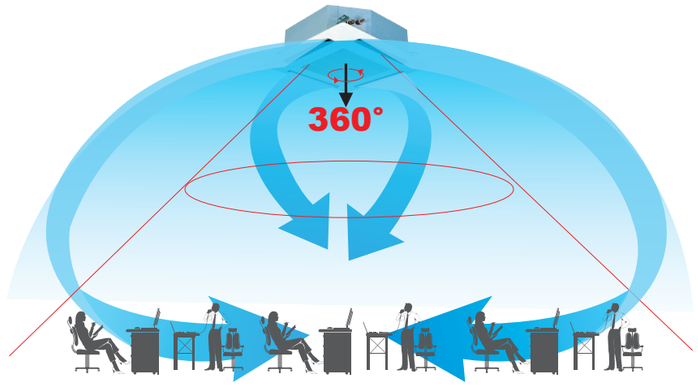
Four indoor temperature sensors on the indoor unit repectively at the trachea, liquid pipe, return air outlet and air outlet; only three temperature sensors on the multi-split air conditioner.



* Note: Suitable for partial indoor models

– 360° Air Supply, Uniform Temperature

Hisense offers 360 degree all directional air flow functionality controlling the vane positions at allow air supply to all corners of the air-conditioned space.



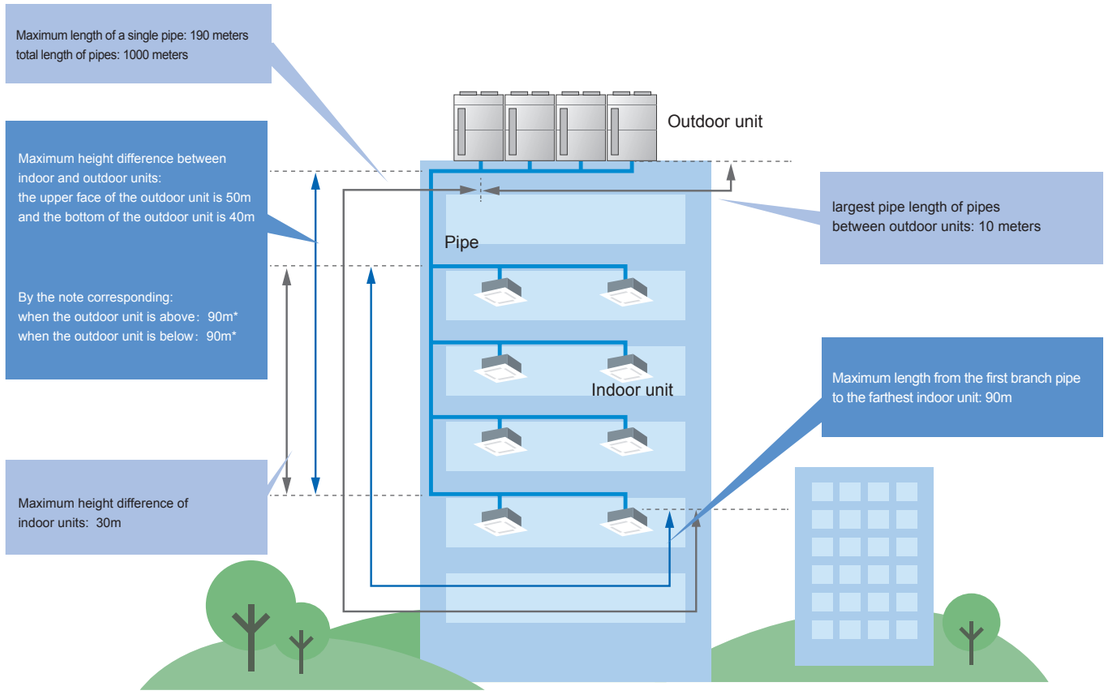
PRODUCT DESIGN

AND INSATALLATION WITH HIGH FLEXIBILITY

Fully considering the real environment in engineering applications, Hisense are fully aware of the real environment in engineering applications and Hisense Hi-FLEXi S series focuses on every detail of this need. Through continuous innovation and technological upgrades the products installation flexibility has been greatly enhanced. The product is safe and convenient and meets users all-round needs with innovative flexibility.

Extra Long Pipe Enabling The Height Difference Between Indoor and Outdoor Units up to 90 Meters *

With extra long pipe, the height difference between the indoor unit and outdorr unit is up to 90 meters *, which makes installation more flexible.



*NOTE: For detailed information, please consult the technical staff.

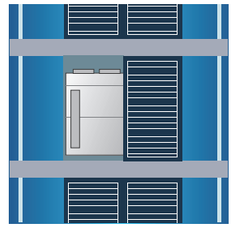
Light Weight Making Transportation and Installation Easier

The largest size of module 28HP is only 1780mm × 1600mm × 750mm (height × width × depth), which can be delivered through freight elevator, making transportation and installation easier.

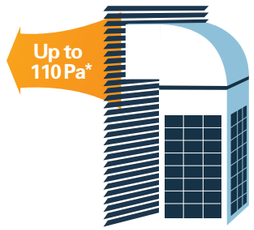
Volume suitable to be delivered by elevators

Fan Static Pressure Adaptive Technology Making Installation Space More Flexible

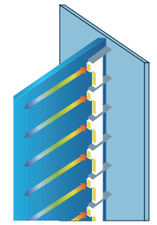
With static pressure adaptive technology, the fan of the outdoor unit can be adjusted in free static pressure based on system requirements to meet a variety of needs in different environments. The maximam external static pressure of the outdoor unit can be up to 110Pa *, which provides better conditions for the layered installation and centralized installation. Higher static pressure and further distance of air supply of the outdoor unit ensure the smooth flow of air and solve condensing problems of the outdoor unit effectively.



Layered installing outdoor units easily dealing with heat dissipation problem.



Easy to conceal outdoor unit, good looking of facades



Air flow diagram

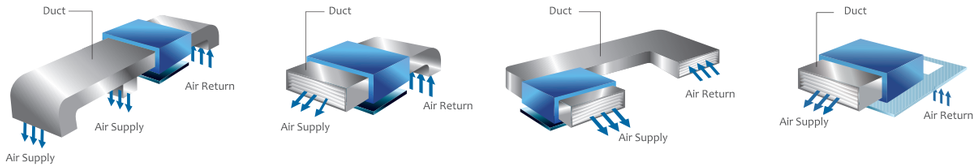
*Note: By the note corresponding, eternal static pressure of the outdoor unit can be up to 110Pa.
For detailed information, please contact Hisense's technical staff.

Diverse Models and Super Multi-link to Cope With The Space Layout Easily

The outdoor unit is rich in capacity which can be chosen based on the actual situation of the building. The indoor unit currently has 12 models with more than 100 specifications to be chosen from and the largest model is type 280. On basis of the floor location of owners, interior decoration and use of the room, the outdoor unit can match freely with different indoor unit. An outdoor unit of 48HP can connect up to 64 indoor units to meet the needs of different house types.

A Variety of Air Return Modes to Fit Different Decoration Designs of the Room

According to different construction structures and interior decoration of buildings, users can now select different duct layouts to suite recommended designer requests. The flexibility of return air applications allow Hisense to fit most interior decoration demands and meet all layout requirements.

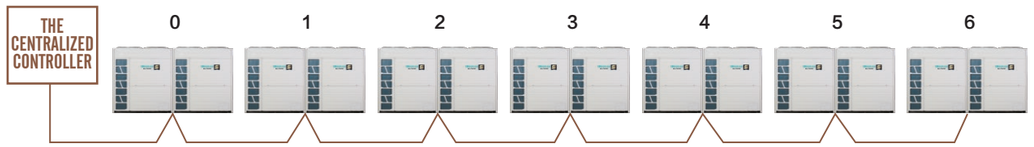


Ceiling Supply Ceiling Return | Side Supply Ceiling Return | Side Supply Side Return | Side Supply Ceiling Return without Air Return Duct

Note:Side Supply Bottom Return will increase the noise level by 5-10 dB. It is not recommend to use in the environment which has high level requirement of noise.

Simple and Convenient Wiring System

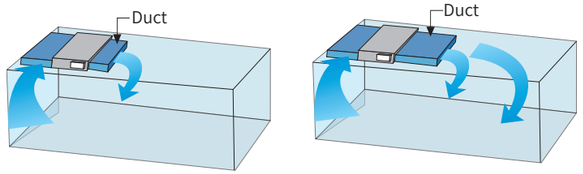
When using a variety of centralized controllers, only one communication line can connect all the air conditioners. This “one-line” connection is convenient for construction and material-saving.The non-polar twisted pair lines are used in non-polar twisted pair communication lines to avoid the wiring error of positive and negative.



The outdoor unit

Multi-state Static Pressure Adjustable for Indoor Unit

The indoor unit can be automatically adjusted to suite the static pressure for the house structure and the installation condition to ensure that it works in the most suitable exhaust state.



When the required duct is shorter, the static pressure is lower.

When the required duct is longer, the static pressure is higher.

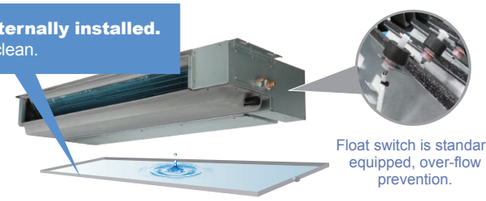
Refrigerant Automatic Judging and Automatic Refrigerant Charging

By judging the temperature of the outdoor environment where system is in operation, the air supply temperature and air return temperature of the indoor unit, the undercooling degree of the system, the high pressure and the low pressure of the refrigerant filling state of the outdoor unit can accurately and effectively be determined, so that the repair and maintenance become more convenient.

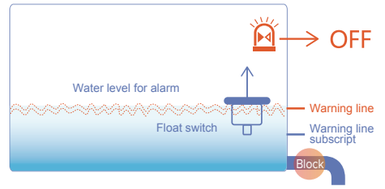
Float Switch Design, Ensure Decoration Safety

The new float switch can monitor the water level of the water pan in the indoor unit at any time. When the problems like blocked drainage, pump failure, insufficient slope and air block occur, the new float switch can quickly and automatically issue warning sign and stop the machine. As a result, the home life is more secure and the system is more reliable.

The drain tray is internally installed.
No duct, beautiful and clean.



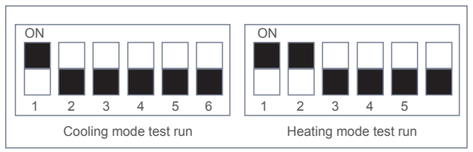
Float switch is standard equipped, over-flow prevention.



Advanced Commissioning Technology

There is a one-key commissioning on either side of the outdoor unit or the indoor unit to facilitate on-site commissioning adjustment and enhance the installation quality of the project site.

Realizing test run through the controller at the indoor unit side



Realizing test run through the DIP-switch at the outdoor unit side.

- Automatically detect whether the main powers of the indoor and outdoor units in reverse phase or phase loss.
- Automatically detect the abnormal communication between the outdoor unit board and the inverter motherboard.
- Automatically detect and confirm the wrong wiring of the indoor and outdoor units.
- Automatically identify the length of pipes, correct and optimize the operation based on the length of pipes.
- Automatically detect and confirm the operation status of the parts inside the air conditioning units such as compressors, fan motors, electronic expansion valves, four-way valves, solenoid valves, etc. to ensure that they are all in normal operation.

Outdoor Unit Specifications

HP			8HP	10HP	12HP	14HP	16HP	18HP
Model			AVWT-76HKSS	AVWT-96HKSS	AVWT-114HKSS	AVWT-136HKSS	AVWT-154HKSS	AVWT-170HKSS
Combination			—	—	—	—	—	—
Power Supply			380-415V 3N~ 50Hz / 60Hz					
Cooling Operation*1	Rated Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Power Consumption	kW	5.21	7.00	8.65	10.53	12.50	15.63
	EER	W/W	4.30	4.00	3.87	3.80	3.60	3.20
Heating Operation*1	Rated Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0
	Power Consumption	kW	5.77	7.59	9.21	11.72	13.70	16.97
	COP	W/W	4.33	4.15	4.07	3.84	3.65	3.30
Air Flow Rate		m^3/min	183	183	183	200	200	200
Noise level*2		dB(A)	59	60	62	62	62	62
Cabinet Color*3			Grayish White					
Compressor Type			Enhanced Vapor Injection Compressor					
Refrigerant Type			R410A					
Gas Line		mm	Φ19.05	Φ22.20	Φ25.40	Φ25.40	Φ28.60	Φ28.60
Liquid Line		mm	Φ9.53	Φ9.53	Φ12.70	Φ12.70	Φ12.70	Φ15.88
Out Dimension	H	mm	1730	1730	1730	1730	1730	1730
	W	mm	950	950	950	1210	1210	1210
	D	mm	750	750	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930	1930	1930
	W	mm	1015	1015	1015	1275	1275	1275
	D	mm	790	790	790	790	790	790
Max.number of connectable IDU			13	16	19	23	26	29
Max. Fuse Current		A	25	32	32	40	40	50
Max. Running Current		A	17.2	22.5	23.5	28.6	33	38.6
Net Weight		kg	224	244	245	297	298	347
Gross Weight		kg	243	263	265	321	322	371
Connection Ratio			50% - 150%					
Compressor Quantity		PC	1	1	1	1	1	2
Condenser Fan Quantity		PC	1	1	1	2	2	2
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)					
	ODUs is Lower Than IDUs	m	40 (90*4)					
Height Difference Between IDUs		m	30					
Operation Range	Cooling	DB	-5℃~ 52℃*5					
	Heating	WB	-25℃*5~ 16.5℃					
Max. Total Piping Length		m	1000					

HP			20HP	22HP	24HP	26HP	28HP
Model			AVWT-190HKSS	AVWT-212HKSS	AVWT-232HKSS	AVWT-250HKSS	AVWT-272HKSS
Combination			—	—	—	—	—
Power Supply			380-415V 3N~ 50Hz / 60Hz				
Cooling Operation*1	Rated Capacity	kW	56.0	61.5	68.0	72.5	80.0
	Power Consumption	kW	17.90	20.50	22.82	24.58	27.59
	EER	W/W	3.13	3.00	2.98	2.95	2.90
Heating Operation*1	Rated Capacity	kW	63.0	69.0	75.0	80.0	90.0
	Power Consumption	kW	19.87	22.48	24.59	26.67	30.41
	COP	W/W	3.17	3.07	3.05	3.00	2.96
Air Flow Rate		m^3/min	267	296	296	350	350
Noise level*2		dB(A)	63	64	66	67	67
Cabinet Color*3			Grayish White				
Compressor Type			Enhanced Vapor Injection Compressor				
Refrigerant Type			R410A				
Gas Line		mm	Φ28.60	Φ28.60	Φ28.60	Φ31.75	Φ31.75
Liquid Line		mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ19.05
Out Dimension	H	mm	1730	1730	1730	1730	1730
	W	mm	1350	1350	1350	1600	1600
	D	mm	750	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930	1930
	W	mm	1420	1420	1420	1665	1665
	D	mm	790	790	790	790	790
Max.number of connectable IDU			33	36	40	43	47
Max. Fuse Current		A	63	63	63	80	80
Max. Running Current		A	44.5	49.8	52.4	56.9	58.2
Net Weight		kg	361	369	370	414	415
Gross Weight		kg	395	396	397	446	447
Connection Ratio			50% - 150%				
Compressor Quantity		PC	2	2	2	2	2
Condenser Fan Quantity		PC	2	2	2	2	2
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)				
	ODUs is Lower Than IDUs	m	40 (90*4)				
Height Difference Between IDUs		m	30				
Operation Range	Cooling	DB	-5℃~ 52℃*5				
	Heating	WB	-25℃*5~ 16.5℃				
Max. Total Piping Length		m	1000				

Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
   Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet 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. For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
5. When the operation temperature is under 48℃~52℃ or -25℃~-20℃, please contact our professional engineer.

Outdoor Unit Specifications

HP			30HP	32HP	34HP	36HP	38HP
Model			AVWT-290HKSS	AVWT-308HKSS	AVWT-324HKSS	AVWT-344HKSS	AVWT-360HKSS
Combination			AVWT-154HKSS AVWT-136HKSS	AVWT-154HKSS AVWT-154HKSS	AVWT-170HKSS AVWT-154HKSS	AVWT-190HKSS AVWT-154HKSS	AVWT-190HKSS AVWT-170HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz				
Cooling Operation*1	Rated Capacity	kW	85.0	90.0	95.0	101.0	106.0
	Power Consumption	kW	23.03	25.00	28.13	30.40	33.53
	EER	W/W	3.69	3.60	3.38	3.32	3.16
Heating Operation*1	Rated Capacity	kW	95.0	100.0	106.0	113.0	119.0
	Power Consumption	kW	25.42	27.40	30.67	33.57	36.84
	COP	W/W	3.74	3.65	3.46	3.37	3.23
Air Flow Rate		m^3/min	400	400	400	467	467
Noise level*2		dB(A)	67	67	67	67	67
Cabinet Color*3			Grayish White				
Compressor Type			Enhanced Vapor Injection Compressor				
Refrigerant Type			R410A				
Gas Line		mm	Φ31.75	Φ31.75	Φ38.1	Φ38.1	Φ38.1
Liquid Line		mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Out Dimension	H	mm	1730	1730	1730	1730	1730
	W	mm	1210+1210	1210+1210	1210+1210	1210+1350	1210+1350
	D	mm	750	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930	1930
	W	mm	1275+1275	1275+1275	1275+1275	1275+1420	1275+1420
	D	mm	790	790	790	790	790
Max.number of connectable IDU			49	52	55	59	62
Max. Fuse Current		A	80	80	100	100	100
Max. Running Current		A	61.6	66	71.6	77.5	83.1
Net Weight		kg	595	596	645	659	708
Gross Weight		kg	643	644	693	717	766
Connection Ratio			50% - 150%				
Compressor Quantity		PC	2	2	3	3	4
Condenser Fan Quantity		PC	4	4	4	4	4
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)				
	ODUs is Lower Than IDUs	m	40 (90*4)				
Height Difference Between IDUs		m	30				
Operation Range	Cooling	DB	-5℃ ~ 52℃*5				
	Heating	WB	-25℃*5~ 16.5℃				
Max. Total Piping Length		m	1000				

HP			40HP	42HP	44HP	46HP	48HP
Model			AVWT-380HKSS	AVWT-402HKSS	AVWT-422HKSS	AVWT-444HKSS	AVWT-464HKSS
Combination			AVWT-190HKSS AVWT-190HKSS	AVWT-232HKSS AVWT-170HKSS	AVWT-232HKSS AVWT-190HKSS	AVWT-232HKSS AVWT-212HKSS	AVWT-232HKSS AVWT-232HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz				
Cooling Operation*1	Rated Capacity	kW	112.0	118.0	124.0	129.5	136.0
	Power Consumption	kW	35.80	38.45	40.72	43.32	45.64
	EER	W/W	3.13	3.07	3.05	2.99	2.98
Heating Operation*1	Rated Capacity	kW	126.0	131.0	138.0	144.0	150.0
	Power Consumption	kW	39.74	41.56	44.46	47.07	49.18
	COP	W/W	3.17	3.15	3.10	3.06	3.05
Air Flow Rate		m^3/min	534	496	563	592	592
Noise level*2		dB(A)	67	67	68	68	69
Cabinet Color*3			Grayish White				
Compressor Type			Enhanced Vapor Injection Compressor				
Refrigerant Type			R410A				
Gas Line		mm	Φ38.1	Φ38.1	Φ38.1	Φ41.3	Φ41.3
Liquid Line		mm	Φ19.05	Φ19.05	Φ19.05	Φ22.2	Φ22.2
Out Dimension	H	mm	1730	1730	1730	1730	1730
	W	mm	1350+1350	1210+1350	1350+1350	1350+1350	1350+1350
	D	mm	750	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930	1930
	W	mm	1420+1420	1275+1420	1420+1420	1420+1420	1420+1420
	D	mm	790	790	790	790	790
Max.number of connectable IDU			64	64	64	64	64
Max. Fuse Current		A	125	125	125	125	125
Max. Running Current		A	89	91	96.9	102.2	104.8
Net Weight		kg	722	717	731	739	740
Gross Weight		kg	790	768	792	793	794
Connection Ratio			50% - 150%				
Compressor Quantity		PC	4	4	4	4	4
Condenser Fan Quantity		PC	4	4	4	4	4
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)				
	ODUs is Lower Than IDUs	m	40 (90*4)				
Height Difference Between IDUs		m	30				
Operation Range	Cooling	DB	-5℃ ~ 52℃*5				
	Heating	WB	-25℃*5~ 16.5℃				
Max. Total Piping Length		m	1000				

Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
   Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet 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. For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
5. When the operation temperature is under 48℃~52℃ or -25℃~-20℃, please contact our professional engineer.

Outdoor Unit Specifications

HP			50HP	52HP	54HP	56HP
Model			AVWT-482HKSS	AVWT-504HKSS	AVWT-522HKSS	AVWT-544HKSS
Combination			AVWT-250HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-250HKSS	AVWT-272HKSS AVWT-272HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz			
Cooling Operation*1	Rated Capacity	kW	140.5	148.0	152.5	160.0
	Power Consumption	kW	47.40	50.41	52.17	55.18
	EER	W/W	2.96	2.94	2.92	2.90
Heating Operation*1	Rated Capacity	kW	155.0	165.0	170.0	180.0
	Power Consumption	kW	51.26	55.00	57.08	60.82
	COP	W/W	3.02	3.00	2.98	2.96
Air Flow Rate		m^3/min	646	646	700	700
Noise level*2		dB(A)	70	70	70	70
Cabinet Color*3			Grayish White			
Compressor Type			Enhanced Vapor Injection Compressor			
Refrigerant Type			R410A			
Gas Line		mm	Φ41.3	Φ41.3	Φ41.3	Φ41.3
Liquid Line		mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
Out Dimension	H	mm	1730	1730	1730	1730
	W	mm	1350+1600	1350+1600	1600+1600	1600+1600
	D	mm	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930
	W	mm	1420+1665	1420+1665	1665+1665	1665+1665
	D	mm	790	790	790	790
Max.number of connectable IDU			64	64	64	64
Max. Fuse Current		A	160	160	160	160
Max. Running Current		A	109.3	110.6	115.1	116.4
Net Weight		kg	784	785	829	830
Gross Weight		kg	843	844	893	894
Connection Ratio			50% - 150%			
Compressor Quantity		PC	4	4	4	4
Condenser Fan Quantity		PC	4	4	4	4
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)			
	ODUs is Lower Than IDUs	m	40 (90*4)			
Height Difference Between IDUs		m	30			
Operation Range	Cooling	DB	-5℃~ 52℃*5			
	Heating	WB	-25℃*5~ 16.5℃			
Max. Total Piping Length		m	1000			

HP			58HP	60HP	62HP	64HP
Model			AVWT-552HKSS	AVWT-570HKSS	AVWT-592HKSS	AVWT-612HKSS
Combination			AVWT-212HKSS AVWT-170HKSS AVWT-170HKSS	AVWT-190HKSS AVWT-190HKSS AVWT-190HKSS	AVWT-232HKSS AVWT-190HKSS AVWT-170HKSS	AVWT-232HKSS AVWT-190HKSS AVWT-190HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz			
Cooling Operation*1	Rated Capacity	kW	161.5	168.0	174.0	180.0
	Power Consumption	kW	51.76	53.70	56.35	58.62
	EER	W/W	3.12	3.13	3.09	3.07
Heating Operation*1	Rated Capacity	kW	181.0	189.0	194.0	201.0
	Power Consumption	kW	56.42	59.61	61.43	64.33
	COP	W/W	3.21	3.17	3.16	3.12
Air Flow Rate		m^3/min	696	801	763	830
Noise level*2		dB(A)	70	70	70	70
Cabinet Color*3			Grayish White			
Compressor Type			Enhanced Vapor Injection Compressor			
Refrigerant Type			R410A			
Gas Line		mm	Φ44.5	Φ44.5	Φ44.5	Φ44.5
Liquid Line		mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
Out Dimension	H	mm	1730	1730	1730	1730
	W	mm	1210+1210+1350	1350+1350+1350	1210+1350+1350	1350+1350+1350
	D	mm	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930
	W	mm	1275+1275+1420	1420+1420+1420	1275+1420+1420	1420+1420+1420
	D	mm	790	790	790	790
Max.number of connectable IDU			64	64	64	64
Max. Fuse Current		A	160	160	160	200
Max. Running Current		A	127	133.5	135.5	141.4
Net Weight		kg	1063	1083	1078	1092
Gross Weight		kg	1138	1185	1163	1187
Connection Ratio			50% - 150%			
Compressor Quantity		PC	6	6	6	6
Condenser Fan Quantity		PC	6	6	6	6
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)			
	ODUs is Lower Than IDUs	m	40 (90*4)			
Height Difference Between IDUs		m	30			
Operation Range	Cooling	DB	-5℃~ 52℃*5			
	Heating	WB	-25℃*5~ 16.5℃			
Max. Total Piping Length		m	1000			

Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
   Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet 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. For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
5. When the operation temperature is under 48℃~52℃ or -25℃~-20℃, please contact our professional engineer.

Outdoor Unit Specifications

HP			66HP	68HP	70HP	72HP
Model			AVWT-634HKSS	AVWT-654HKSS	AVWT-676HKSS	AVWT-696HKSS
Combination			AVWT-232HKSS AVWT-212HKSS AVWT-190HKSS	AVWT-232HKSS AVWT-232HKSS AVWT-190HKSS	AVWT-232HKSS AVWT-232HKSS AVWT-212HKSS	AVWT-232HKSS AVWT-232HKSS AVWT-232HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz			
Cooling Operation*1	Rated Capacity	kW	185.5	192.0	197.5	204.0
	Power Consumption	kW	61.22	63.54	66.14	68.46
	EER	W/W	3.03	3.02	2.99	2.98
Heating Operation*1	Rated Capacity	kW	207.0	213.0	219.0	225.0
	Power Consumption	kW	66.94	69.05	71.66	73.77
	COP	W/W	3.09	3.08	3.06	3.05
Air Flow Rate		m^3/min	859	859	888	888
Noise level*2		dB(A)	70	70	70	71
Cabinet Color*3			Grayish White			
Compressor Type			Enhanced Vapor Injection Compressor			
Refrigerant Type			R410A			
Gas Line		mm	Φ44.5	Φ50.8	Φ50.8	Φ50.8
Liquid Line		mm	Φ22.2	Φ25.4	Φ25.4	Φ25.4
Out Dimension	H	mm	1730	1730	1730	1730
	W	mm	1350+1350+1350	1350+1350+1350	1350+1350+1350	1350+1350+1350
	D	mm	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930
	W	mm	1420+1420+1420	1420+1420+1420	1420+1420+1420	1420+1420+1420
	D	mm	790	790	790	790
Max.number of connectable IDU			64	64	64	64
Max. Fuse Current		A	200	200	200	200
Max. Running Current		A	146.7	149.3	154.6	157.2
Net Weight		kg	1100	1101	1109	1110
Gross Weight		kg	1188	1189	1190	1191
Connection Ratio			50% - 150%			
Compressor Quantity		PC	6	6	6	6
Condenser Fan Quantity		PC	6	6	6	6
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)			
	ODUs is Lower Than IDUs	m	40 (90*4)			
Height Difference Between IDUs		m	30			
Operation Range	Cooling	DB	-5℃ ~ 52℃*5			
	Heating	WB	-25℃*5~ 16.5℃			
Max. Total Piping Length		m	1000			

HP			74HP	76HP	78HP	80HP
Model			AVWT-714HKSS	AVWT-732HKSS	AVWT-754HKSS	AVWT-776HKSS
Combination			AVWT-250HKSS AVWT-232HKSS AVWT-232HKSS	AVWT-250HKSS AVWT-250HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-250HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-272HKSS AVWT-232HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz			
Cooling Operation*1	Rated Capacity	kW	208.5	213.0	220.5	228.0
	Power Consumption	kW	70.22	71.98	74.99	78.00
	EER	W/W	2.97	2.96	2.95	2.92
Heating Operation*1	Rated Capacity	kW	230.0	235.0	245.0	255.0
	Power Consumption	kW	75.85	77.93	81.67	85.41
	COP	W/W	3.03	3.02	3.00	2.98
Air Flow Rate		m^3/min	942	996	996	996
Noise level*2		dB(A)	71	71	71	71
Cabinet Color*3			Grayish White			
Compressor Type			Enhanced Vapor Injection Compressor			
Refrigerant Type			R410A			
Gas Line		mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
Liquid Line		mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Out Dimension	H	mm	1730	1730	1730	1730
	W	mm	1350+1350+1600	1350+1600+1600	1350+1600+1600	1350+1600+1600
	D	mm	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930
	W	mm	1420+1420+1665	1420+1665+1665	1420+1665+1665	1420+1665+1665
	D	mm	790	790	790	790
Max.number of connectable IDU			64	64	64	64
Max. Fuse Current		A	200	200	200	200
Max. Running Current		A	161.7	166.2	167.5	168.8
Net Weight		kg	1154	1198	1199	1200
Gross Weight		kg	1240	1289	1290	1291
Connection Ratio			50% - 150%			
Compressor Quantity		PC	6	6	6	6
Condenser Fan Quantity		PC	6	6	6	6
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)			
	ODUs is Lower Than IDUs	m	40 (90*4)			
Height Difference Between IDUs		m	30			
Operation Range	Cooling	DB	-5℃ ~ 52℃*5			
	Heating	WB	-25℃*5~ 16.5℃			
Max. Total Piping Length		m	1000			

Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
   Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet 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. For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
5. When the operation temperature is under 48℃~52℃ or -25℃~-20℃, please contact our professional engineer.

Outdoor Unit Specifications

HP			82HP	84HP	86HP	88HP
Model			AVWT-794HKSS	AVWT-816HKSS	AVWT-824HKSS	AVWT-844HKSS
Combination			AVWT-272HKSS AVWT-272HKSS AVWT-250HKSS	AVWT-272HKSS AVWT-272HKSS AVWT-272HKSS	AVWT-232HKSS AVWT-212HKSS AVWT-190HKSS AVWT-190HKSS	AVWT-232HKSS AVWT-232HKSS AVWT-190HKSS AVWT-190HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz			
Cooling Operation*1	Rated Capacity	kW	232.5	240.0	241.5	248.0
	Power Consumption	kW	79.76	82.77	79.12	81.44
	EER	W/W	2.91	2.90	3.05	3.05
Heating Operation*1	Rated Capacity	kW	260.0	270.0	270.0	276.0
	Power Consumption	kW	87.49	91.23	86.81	88.92
	COP	W/W	2.97	2.96	3.11	3.10
Air Flow Rate		m^3/min	1050	1050	1126	1126
Noise level*2		dB(A)	72	72	72	72
Cabinet Color*3			Grayish White			
Compressor Type			Enhanced Vapor Injection Compressor			
Refrigerant Type			R410A			
Gas Line		mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
Liquid Line		mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Out Dimension	H	mm	1730	1730	1730	1730
	W	mm	1600+1600+1600	1600+1600+1600	1350+1350+1350+1350	1350+1350+1350+1350
	D	mm	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930
	W	mm	1665+1665+1665	1665+1665+1665	1420+1420+1420+1420	1420+1420+1420+1420
	D	mm	790	790	790	790
Max.number of connectable IDU			64	64	64	64
Max. Fuse Current		A	250	250	250	250
Max. Running Current		A	173.3	174.6	191.2	193.8
Net Weight		kg	1244	1245	1461	1462
Gross Weight		kg	1340	1341	1583	1584
Connection Ratio			50% - 150%			
Compressor Quantity		PC	6	6	8	8
Condenser Fan Quantity		PC	6	6	8	8
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)			
	ODUs is Lower Than IDUs	m	40 (90*4)			
Height Difference Between IDUs		m	30			
Operation Range	Cooling	DB	-5℃~ 52℃*5			
	Heating	WB	-25℃*5~ 16.5℃			
Max. Total Piping Length		m	1000			

HP			90HP	92HP	94HP	96HP
Model			AVWT-866HKSS	AVWT-886HKSS	AVWT-908HKSS	AVWT-928HKSS
Combination			AVWT-232HKSS AVWT-232HKSS AVWT-212HKSS AVWT-190HKSS	AVWT-232HKSS AVWT-232HKSS AVWT-232HKSS AVWT-190HKSS	AVWT-232HKSS AVWT-232HKSS AVWT-232HKSS AVWT-212HKSS	AVWT-232HKSS AVWT-232HKSS AVWT-232HKSS AVWT-232HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz			
Cooling Operation*1	Rated Capacity	kW	253.5	260.0	265.5	272.0
	Power Consumption	kW	84.04	86.36	88.96	91.28
	EER	W/W	3.02	3.01	2.98	2.98
Heating Operation*1	Rated Capacity	kW	282.0	288.0	294.0	300.0
	Power Consumption	kW	91.53	93.64	96.25	98.36
	COP	W/W	3.08	3.08	3.05	3.05
Air Flow Rate		m^3/min	1155	1155	1184	1184
Noise level*2		dB(A)	72	72	72	72
Cabinet Color*3			Grayish White			
Compressor Type			Enhanced Vapor Injection Compressor			
Refrigerant Type			R410A			
Gas Line		mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
Liquid Line		mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Out Dimension	H	mm	1730	1730	1730	1730
	W	mm	1350+1350+1350+1350	1350+1350+1350+1350	1350+1350+1350+1350	1350+1350+1350+1350
	D	mm	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930
	W	mm	1420+1420+1420+1420	1420+1420+1420+1420	1420+1420+1420+1420	1420+1420+1420+1420
	D	mm	790	790	790	790
Max.number of connectable IDU			64	64	64	64
Max. Fuse Current		A	250	250	250	320
Max. Running Current		A	199.1	201.7	207	209.6
Net Weight		kg	1470	1471	1479	1480
Gross Weight		kg	1585	1586	1587	1588
Connection Ratio			50% - 150%			
Compressor Quantity		PC	8	8	8	8
Condenser Fan Quantity		PC	8	8	8	8
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)			
	ODUs is Lower Than IDUs	m	40 (90*4)			
Height Difference Between IDUs		m	30			
Operation Range	Cooling	DB	-5℃~ 52℃*5			
	Heating	WB	-25℃*5~ 16.5℃			
Max. Total Piping Length		m	1000			

Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
   Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet 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. For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
5. When the operation temperature is under 48℃~52℃ or -25℃~-20℃, please contact our professional engineer.

Outdoor Unit Specifications

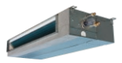
HP			98HP	100HP	102HP	104HP
Model			AVWT-946HKSS	AVWT-968HKSS	AVWT-988HKSS	AVWT-1008HKSS
Combination			AVWT-250HKSS AVWT-232HKSS AVWT-232HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-232HKSS AVWT-232HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-272HKSS AVWT-232HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-272HKSS AVWT-232HKSS AVWT-232HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz			
Cooling Operation*1	Rated Capacity	kW	276.5	284.0	289.5	296.0
	Power Consumption	kW	93.04	96.05	98.50	100.82
	EER	W/W	2.97	2.96	2.94	2.94
Heating Operation*1	Rated Capacity	kW	305.0	315.0	324.0	330.0
	Power Consumption	kW	100.44	104.18	107.89	110.00
	COP	W/W	3.04	3.02	3.00	3.00
Air Flow Rate		m^3/min	1238	1238	1292	1292
Noise level*2		dB(A)	72	72	72	73
Cabinet Color*3			Grayish White			
Compressor Type			Enhanced Vapor Injection Compressor			
Refrigerant Type			R410A			
Gas Line		mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
Liquid Line		mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Out Dimension	H	mm	1730	1730	1730	1730
	W	mm	1350+1350+1350+1600	1350+1350+1350+1600	1350+1350+1600+1600	1350+1350+1600+1600
	D	mm	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930
	W	mm	1420+1420+1420+1665	1420+1420+1420+1665	1420+1420+1665+1665	1420+1420+1665+1665
	D	mm	790	790	790	790
Max.number of connectable IDU			64	64	64	64
Max. Fuse Current		A	320	320	320	320
Max. Running Current		A	214.1	215.4	218.6	221.2
Net Weight		kg	1524	1525	1569	1570
Gross Weight		kg	1637	1638	1687	1688
Connection Ratio			50% - 150%			
Compressor Quantity		PC	8	8	8	8
Condenser Fan Quantity		PC	8	8	8	8
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)			
	ODUs is Lower Than IDUs	m	40 (90*4)			
Height Difference Between IDUs		m	30			
Operation Range	Cooling	DB	-5℃ ~ 52℃*5			
	Heating	WB	-25℃*5~ 16.5℃			
Max. Total Piping Length		m	1000			

HP			106HP	108HP	110HP	112HP
Model			AVWT-1026HKSS	AVWT-1048HKSS	AVWT-1066HKSS	AVWT-1088HKSS
Combination			AVWT-272HKSS AVWT-272HKSS AVWT-250HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-272HKSS AVWT-272HKSS AVWT-232HKSS	AVWT-272HKSS AVWT-272HKSS AVWT-272HKSS AVWT-250HKSS	AVWT-272HKSS AVWT-272HKSS AVWT-272HKSS AVWT-272HKSS
Power Supply			380-415V 3N~ 50Hz / 60Hz			
Cooling Operation*1	Rated Capacity	kW	300.5	308.0	312.5	320.0
	Power Consumption	kW	102.58	105.59	107.35	110.36
	EER	W/W	2.93	2.92	2.91	2.90
Heating Operation*1	Rated Capacity	kW	335.0	345.0	350.0	360.0
	Power Consumption	kW	112.08	115.82	117.9	121.64
	COP	W/W	2.99	2.98	2.97	2.96
Air Flow Rate		m^3/min	1346	1346	1400	1400
Noise level*2		dB(A)	73	73	73	73
Cabinet Color*3			Grayish White			
Compressor Type			Enhanced Vapor Injection Compressor			
Refrigerant Type			R410A			
Gas Line		mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
Liquid Line		mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Out Dimension	H	mm	1730	1730	1730	1730
	W	mm	1350+1600+1600+1600	1350+1600+1600+1600	1600+1600+1600+1600	1600+1600+1600+1600
	D	mm	750	750	750	750
Packing Dimension	H	mm	1930	1930	1930	1930
	W	mm	1420+1665+1665+1665	1420+1665+1665+1665	1665+1665+1665+1665	1665+1665+1665+1665
	D	mm	790	790	790	790
Max.number of connectable IDU			64	64	64	64
Max. Fuse Current		A	320	320	320	320
Max. Running Current		A	225.7	227	231.5	232.8
Net Weight		kg	1614	1615	1659	1660
Gross Weight		kg	1737	1738	1787	1788
Connection Ratio			50% - 150%			
Compressor Quantity		PC	8	8	8	8
Condenser Fan Quantity		PC	8	8	8	8
Height Difference Between ODUs and IDUs	ODUs is Higher Than IDUs	m	50 (90*4)			
	ODUs is Lower Than IDUs	m	40 (90*4)			
Height Difference Between IDUs		m	30			
Operation Range	Cooling	DB	-5℃ ~ 52℃*5			
	Heating	WB	-25℃*5~ 16.5℃			
Max. Total Piping Length		m	1000			

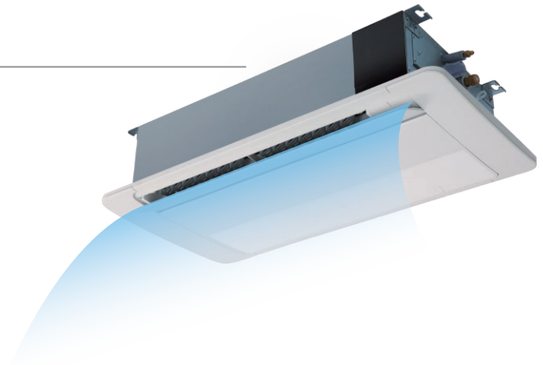
Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
   Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet 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. For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
5. When the operation temperature is under 48℃~52℃ or -25℃~-20℃, please contact our professional engineer.

Hisense Hi-FLEXi S series provide a wide selection of indoor units for indoor decoration and create a personalized living space.

HP		0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	3.0	3.3	4.0	5.0	6.0	8.0	10
kBtu/h		5	7	9	12	14	17	18	22	24	27	30	38	48	54	76	96
1-Way Cassette Type			●	●	●	●		●		●							
2-Way Cassette Type			●	●	●	●		●		●	●	●	●	●	●		
4-Way Cassette Type				●	●	●	●	●	●	●	●	●	●	●	●		
Compact 4-way Cassette Type		●	●	●	●	●	●										
Ceiling Ducted Type (High Static Pressure)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Ducted Type (Low Static Pressure)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Ducted Type (Low-height)		●	●	●	●	●	●	●	●	●							
Ceiling Ducted Type (Slim Low-height)			●	●	●	●											
Ceiling Ducted Type (DC Low-height)			●	●	●	●	●	●	●	●							
Ceiling & Floor Type							●	●	●	●	●	●	●	●			
Wall Mounted Type			●	●	●	●	●	●	●	●							
Floor Concealed Type				●		●		●		●							

1-Way Cassette Type



Fashionable Appearance, Convenient Installation

Customers can choose the installation method according to different situation. The concise fashion elements style is suitable for renewal projects and un-decorated shopping malls or classrooms.

Efficiency DC Motor, Adjustable Air Speed

Adoption of the efficient DC motor and the optimized duct design assure the smooth air flow.

Wider 3D-air Flow Range

Broad air deflector design realized broad air supply range. The wind direction can be adjusted accordingto the need thus makes the customers feel more comfortable.

Standard Equipped Drain Pump

Standard equipped drain pump with the maximum drainage height up to 1200mm.

Intelligent Sensor (Optional)

People detecting, moving or not moving. Air blow to the people or avoid people.

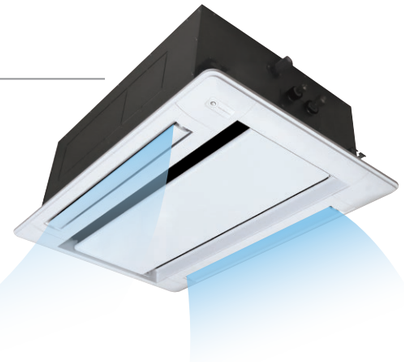
Fresh Air Introducing

The unit can introduce fresh air from the external environment. With the filter facility, the air quality is garunteed.

Indoor unit		1-Way Cassette Type					
Model Power Supply	AC1Φ 220V~240V /50Hz/60Hz	AVY-07UXJSJA	AVY-09UXJSJA	AVY-12UXJSJA	AVY-14UXJSJA	AVY-18UXJSKA	AVY-24UXJSKA
Cooling Operation	kW	2.2	2.8	3.6	4.0	5.6	7.1
	kcal/h	1,900	2,400	3,100	3,400	4,800	6,100
	Btu/h	7,500	9,600	12,300	13,600	19,100	24,200
Heating Opeartion	kW	2.5	3.2	4.0	4.5	6.3	8
	kcal/h	2,100	2,700	3,400	3,800	5,400	6,800
	Btu/h	85,00	10,900	13,600	15,400	21,500	27,300
Sound Pressure Level	dB(A)	33/32/31/30/29/28	35/34/32/31/29/28	40/36/35/33/30/29	40/36/35/33/30/29	41/39/36/35/33/31	48/46/43/40/37/33
Outer Dimensions (H×W×D)	mm	192×910×470				192×1,180×470	
Net Weight	kg	19	19	20	20	24	24
Refrigerant		R410A (Nitrogen-charged for corrosion-resistance)					
Indoor Fan Air Flow Rate	m^3/h	372/354/336/306/288/276	396/372/336/306/288/276	498/438/408/372/336/306	498/438/408/372/336/306	726/594/528/492/468/396	936/756/672/594/504/426
Motor Power	kW	0.04	0.04	0.04	0.04	0.06	0.06
Refrigerant Piping Connection		Flare-nut Connection (with Flare Nuts)					
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate Drain		VP25 (Outer Diameter 32)					
Panel Model		HP-D-NA	HP-D-NA	HP-D-NA	HP-D-NA	HP-E-NA	HP-E-NA
Cabinet Color		Neutral White					
Outer Dimensions (H×W×D)	mm	55×1,100×550	55×1,100×550	55×1,100×550	55×1,100×550	55×1,370×550	55×1,370×550
Net Weight	kg	5	5	5	5	6	6

NOTES:
1. The nominal cooling capacity is based on the following conditions:
   Indoor Air Inlet Temperature: 27°C DB (80°F DB), 19.0°C WB(66.2°F WB) Outdoor Air Inlet Temperature: 35°C DB(95°F DB) Piping Length: 7.5 Meters Piping Lift: 0 Meter
2. The sound pressure level is based on the following conditions:
   1.0m beneath the unit,1.0m from Discharge Grille. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

2-Way Cassette Type



2-way Individual Louver

The newly equipped individual louver setting function allows the angles of the 2 louvers to be adjusted individually.

Efficiency DC Motor, Adjustable Air Speed

The adoption of the efficient DC motor and the optimized duct design assure the smooth air flow.

Super Compact Structure Design, Easy for Installation

Standard Equipped Drain Pump

The maximum drainage height up to 1200mm.

The Design of Low Noise

The high efficiency turbofan form the wind pressure by rotating. Larger fan blades and slower fan speed realize the low operating noise.

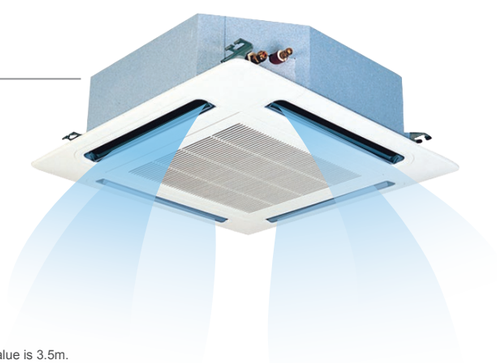
Fresh Air Introducing

The unit can introduce fresh air from the external environment. With the filter facility, the air quality is ensured.

Indoor unit		2-Way Cassette Type										
Model Power Supply	AC1Φ 220V~240V /50Hz/60Hz	AVL-07 UXJSGA	AVL-09 UXJSGA	AVL-12 UXJSGA	AVL-14 UXJSGA	AVL-18 UXJSGA	AVL-24 UXJSGA	AVL-27 UXJSGA	AVL-30 UXJSGA	AVL-38 UXJSHA	AVL-48 UXJSHA	AVL-54 UXJSHA
Cooling Operation	kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0
	kcal/h	1,900	2,400	3,100	3,700	4,800	6,100	6,900	7,700	9,600	12,000	13,800
	Btu/h	7,500	9,600	12,300	14,700	19,100	24,200	28,700	30,700	38,200	47,800	54,600
Heating Opeartion	kW	2.8	3.3	4.0	4.9	6.5	8.0	9.0	10.0	13.0	16.0	18.0
	kcal/h	2,400	2,800	3,400	4,200	5,600	6,800	7,800	8,600	11,200	13,800	15,500
	Btu/h	9,600	11,300	13,600	16,700	22,200	27,300	30,700	34,100	44,400	54,600	61,400
Sound Pressure Level	dB(A)	32/30/29/27	33/30/29/28	34/31/30/28	40/37/34/32	42/39/36/33	45/42/40/36	47/44/40/36	49/46/42/37	46/44/40/38	48/45/42/38	49/46/43/40
Outer Dimensions (H×W×D)	mm	298×860×630								298×1,420×630		
Net Weight	kg	22	22	22	24	24	24	24	24	39	39	39
Refrigerant		R410A(Nitrogen-charged for corrosion-resistance)										
Indoor Fan Air Flow Rate	m^3/h	600/510 /432/360	660/564 /492/396	720/630 /534/450	900/792 /690/594	1,020/894 /780/672	1,140/984 /858/738	1,260/1,104 /936/756	1,320/1,158 /978/786	1,800/1,584 /1,386/1,188	2,100/1,848 /1,614/1,266	2,220/1,950 /1,704/1,446
Motor Power	kW	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057x2	0.057x2	0.057x2
Refrigerant Piping Connection		Flare-nut Connection(with Flare Nuts)										
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain		VP25(Outer Diameter Φ32)										
Panel Model		HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-F-NA	HP-F-NA	HP-F-NA
Cabinet Color		Neutral White										
Outer Dimensions (H×W×D)	mm	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,660×710	30×1,660×710	30×1,660×710
Net Weight	kg	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.5	10.5	10.5

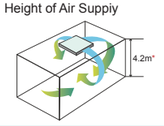
NOTES: 1. The nominal cooling capacity is based on the following conditions:
Indoor Air Inlet Temperature: 27°C DB (80°F DB), 19.0°C WB(66.2°F WB) Outdoor Air Inlet Temperature: 35°C DB(95°F DB) Piping Length: 7.5 Meters Piping Lift: 0 Meter.
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

4-Way Cassette Type

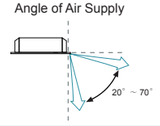


Broad Range of Air Supply-suitable to be Used in Rooms of High Ceilings and Large Spaces

Height of Air Suppiy



Angle of Air Supply



when indoor unit model is AVC 27~54* when indoor unit model is AVC 09*~24*,the Value is 3.5m.

Compact and Thin

The height of the unit is only 248mm (Less than 24.2KBtu/h), so it can be installed in a small space inside a ceiling.

Installation Direction Can be Changed Easily for Convenient Pipe Connection

The design of the squared unit body and squared installation bracket makes the unit body installed in any direction horizontally possible, therefore there can be a convenient position to connect pipe .

Body Height Easily Adjustable in the Corner Pockets

A pocket is provided for each of the four panel corners, so that the body height can be adjusted easily without removing the panel.

Power Input Reduced by Applying the New Developed DC Fan Motor

With several new technologies such as the ferritic magnetic surface-mounted rotor, the centralized winding system and split core system, the motor efficiency is improved in all aspects.

Drain Pump as a Standard Part

Indoor unit			4-Way Cassette Type											
Model Power Supply	AC1Φ, 220~240V/50Hz		AVC-09 UXCSEB	AVC-12 UXCSEB	AVC-14 UXCSEB	AVC-17 UXCSEB	AVC-18 UXCSEB	AVC-22 UXCSEB	AVC-24 UXCSEB	AVC-27 UXCSFB	AVC-30 UXCSFB	AVC-38 UXCSFB	AVC-48 UXCSFB	AVC-54 UXCSFB
	AC1Φ, 220V/60Hz		AVC-09 UX2SEB	AVC-12 UX2SEB	AVC-14 UX2SEB	AVC-17 UX2SEB	AVC-18 UX2SEB	AVC-22 UX2SEB	AVC-24 UX2SEB	AVC-27 UX2SFB	AVC-30 UX2SFB	AVC-38 UX2SFB	AVC-48 UX2SFB	AVC-54 UX2SFB
Nominal Cooling Capacity		kW	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0
		kcal/h	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800
		Btu/h	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600
Nominal Heating Capacity		kW	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0
		kcal/h	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500
		Btu/h	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400
Noise Level (H/M/L)		dB(A)	30-29-27	31-29-27	31-29-27	32-30-27	32-30-27	33-31-29	33-31-29	36-34-32	36-34-32	41-38-35	44-39-36	44-42-38
Outer Dimensions	H	mm	248	248	248	248	248	248	248	298	298	298	298	298
	W	mm	840	840	840	840	840	840	840	840	840	840	840	840
	D	mm	840	840	840	840	840	840	840	840	840	840	840	840
Net Weight		kg	22	22	22	23	23	23	23	24	24	27	27	27
Air Flow Rate (H/M/L)		m^3/h	780/720/660	900/810/720	900/810/720	960/840/720	960/840/720	1,140/1,020/840	1,200/1,020/900	1,560/1,380/1,200	1,560/1,380/1,200	1,920/1,680/1,440	2,040/1,740/1,500	2,220/1,920/1,620
Motor Power		W	40	50	50	50	50	60	60	90	90	120	150	160
Piping Connections			VP25(OuterDiameterΦ32)											
Liquid Line		mm	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 Line		mm	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 Drain			Flare-nut Connection(with Flare Nuts)											
Approximate Packing Measurement		m^3	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.26	0.26	0.26	0.26	0.26
Standard Accessories			Suspension Drackets											
Panel Model			HPE-A-NA											
Cabinet Color			Neutral White											
Outer Dimensions	H	mm	37	37	37	37	37	37	37	37	37	37	37	37
	W	mm	950	950	950	950	950	950	950	950	950	950	950	950
	D	mm	950	950	950	950	950	950	950	950	950	950	950	950
Net Weight		kg	6	6	6	6	6	6	6	6	6	6	6	6
Packing 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

NOTES: 1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°CWB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

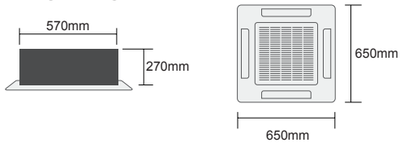
Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB).
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2.The sound pressure level is based on the following conditions: 1.5m beneath the unit.
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

4-Way Cassette Type (Compact)

Compact Design

The panel is unified to a 650mm square which is neat and elegant, fitting small ceiling panel and making installation easier in grid ceilings.



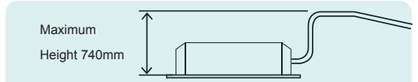
Broad Range of Air Supply

The recommended installation height is 2.5 meter, and it's also available for high ceiling installation by using the fan motor speed-up setting. To shift to SHi setting , connect cable terminal of SHi to the power line of the fan motor.

Convenience for Washing Filter

"FILTER" will be shown on the display of the remote control switch after approximately 1200 hours operation. And the filter can be taken out easily.

Drain Pump as a Standard Part



* The wireless remote controller HYE-W01 is standard for 4-Way Cassette Type (Compact)

Indoor unit			Compact 4-Way Cassette Type					
Model Power Supply	AC1Φ, 220~240V/50Hz		AVC-05URCSAB	AVC-07URCSAB	AVC-09URCSAB	AVC-12URCSAB	AVC-14URCSAB	AVC-17URCSAB
	AC1Φ, 220V/60Hz		——	AVC-07UR2SAB	AVC-09UR2SAB	AVC-12UR2SAB	AVC-14UR2SAB	AVC-17UR2SAB
Nominal Cooling Capacity		kW	1.7	2.2	2.8	3.6	4.3	5.0
		kcal/h	1,500	1,900	2,400	3,100	3,700	4,300
		Btu/h	5,800	7,500	9,600	12,300	14,700	17,100
Nominal Heating Capacity		kW	1.9	2.8	3.3	4.2	4.9	5.6
		kcal/h	1,700	2,400	2,800	3,600	4,200	4,800
		Btu/h	6,500	9,600	11,300	14,300	16,700	19,100
Noise Level (H/M/L)		dB(A)	39-34-30	39-34-30	39-34-30	39-34-30	41-38-33	44-41-37
Outer Dimensions	H	mm	270	270	270	270	270	270
	W	mm	570	570	570	570	570	570
	D	mm	570	570	570	570	570	570
Net Weight		kg	20	20	20	20	20	20
Air Flow Rate (H/M/L)		m^3/h	570/480/384	570/480/384	570/480/384	570/480/384	654/564/456	792/690/588
Motor Power		W	63	63	63	63	71	89
Piping Connections			Flare-nut Connection(with Flare Nuts)					
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Condensate Drain			VP25(Outer Diameter Φ32)					
Approximate Packing Measurement		m^3	0.18	0.18	0.18	0.18	0.18	0.18
Standard Accessories			Suspension Drackets					
Panel Model			HPE-CR-NA					
Cabinet Color			Neutral White					
Outer Dimensions	H	mm	30	30	30	30	30	30
	W	mm	650	650	650	650	650	650
	D	mm	650	650	650	650	650	650
Net Weight		kg	2.4	2.4	2.4	2.4	2.4	2.4
Packing Volume		m^3	0.07	0.07	0.07	0.07	0.07	0.07

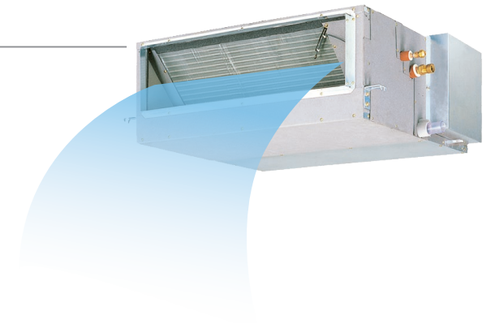
NOTES:

1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB).
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

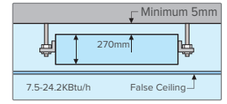
2.The sound pressure level is based on the following conditions:
1.5m beneath the unit.
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

Ceiling Ducted Type (High Static Pressure)

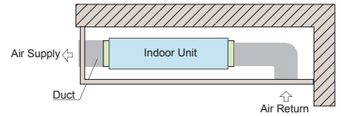


Installation Space-saving

The height less than 270mm can be easily fit into the limited space in the false ceiling (7.5-24.2KBtu/h).



Satisfying Varied Requests on Installation



Fresh Indoor Air

By introducing fresh outdoor air and being equipped with the air filter to keep indoor air clean.

Excellent Air Flow

The cooling and heating air distributed from the unit to the indoor space through ducts, which creates a comfortable environment.

Optional Parts

The drain pump can be supplied as optional part.

NOTE:
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Indoor unit			Ceiling Ducted type (High Static Pressure)														
Model Power Supply	AC1Φ, 220 ~240V/50Hz		AVD-07 UXCSAH	AVD-09 UXCSAH	AVD-12 UXCSAH	AVD-14 UXCSAH	AVD-17 UXCSBH	AVD-18 UXCSBH	AVD-22 UXCSBH	AVD-24 UXCSBH	AVD-27 UXCSCH	AVD-30 UXCSCH	AVD-38 UXCSCH	AVD-48 UXCSDH	AVD-54 UXCSDH	AVD-76 UX6SEH*1	AVD-96 UX6SFH*1
	AC1Φ, 220V/60Hz		AVD-07 UX2SAH	AVD-09 UX2SAH	AVD-12 UX2SAH	AVD-14 UX2SAH	AVD-17 UX2SBH	AVD-18 UX2SBH	AVD-22 UX2SBH	AVD-24 UX2SBH	AVD-27 UX2SCH	AVD-30 UX2SCH	AVD-38 UX2SCH	AVD-48 UX2SDH	AVD-54 UX2SDH	AVD-76 UX2SFH*2	AVD-96 UX2SFH*2
Nominal Cooling Capacity		kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0
		kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100
		Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600
Nominal Heating Capacity		kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0	25.0	31.5
		kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500	21,500	27,100
		Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400	85,300	107,500
Noise Level (H/M/L)		dB(A)	33-31-29	33-31-29	33-31-29	33-31-29	34-32-30	34-32-30	36-34-32	36-34-32	41-39-34	41-39-34	43-40-36	44-41-36	43-40-37	52	54
Outer Dimensions	H	mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470
	W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250
	D	mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Net Weight		kg	25	25	25	25	34	34	34	34	44	44	44	56	56	94	106
Air Flow Rate (H/M/L)		m^3/h	480/420 /360	480/420 /360	780/660 /540	780/660 /540	900/780 /660	900/780 /660	960/840 /720	960/840 /720	1600/1400 /1150	1600/1400 /1150	1600/1400 /1150	2100/1750 /1450	2150/1800 /1550	3480	4650
Motor Power		W	110	110	150	150	150	150	150	190	300	300	300	430	430	1030	1280
Piping Connections			Flare-nut Connection(with Flare Nuts)													Brazing	
Liquid Line		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 Line		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	Φ19.05	Φ22.2
Condensate Drain			VP25(Outer Diameter Φ32)														
External Static Pressure		Pa	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)	220	220
Packing Volume		m^3	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06

NOTES:

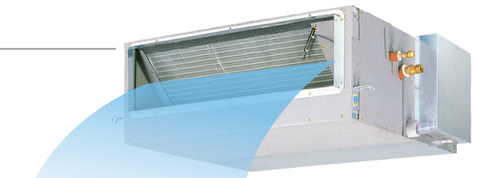
1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB).
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions: 1.5m beneath the unit. With discharge duct (2.0m) and return duct(1.0m)
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

3. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.
*1: AC3Φ, 380V/60Hz: AVD- 76UX7SEH; AVD-96UX7SFH

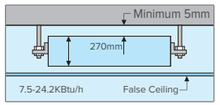
Ceiling Ducted Type (Low Static Pressure)



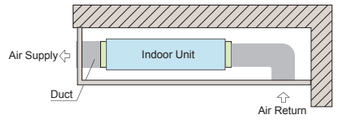
Installation Space-saving

270mm

The height less than 270mm can be easily fit into the limited space in the false ceiling (7.5-24.2KBtu/h).



Satisfying Varied Requests on Installation



NOTE:
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Fresh Indoor Air

By introducing fresh outdoor air and being equipped with air filter to keep indoor air clean.

Excellent Air Flow

The cooling and heating air distributed from the unit to the indoor space through ducts which creates a comfortable environment.

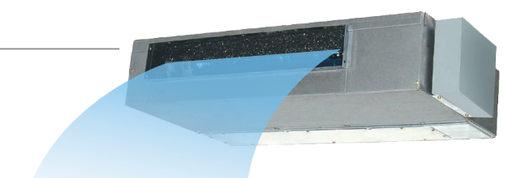
Optional Parts

Drain pump can be supplied as optional part.

Indoor unit			Ceiling Ducted type (Low Static Pressure)															
Model Power Supply	AC1Φ 220 ~240V/50Hz		AVD-07 UXCSAL	AVD-09 UXCSAL	AVD-12 UXCSAL	AVD-14 UXCSAL	AVD-17 UXCSBL	AVD-18 UXCSBL	AVD-22 UXCSBL	AVD-24 UXCSBL	AVD-27 UXCSCL	AVD-30 UXCSCL	AVD-38 UXCSCL	AVD-48 UXCSDL	AVD-54 UXCSDL	AVD-76 UX6SEL*1	AVD-96 UX6SFL*1
	AC1Φ 220V/60Hz		AVD-07 UX2SAL	AVD-09 UX2SAL	AVD-12 UX2SAL	AVD-14 UX2SAL	AVD-17 UX2SBL	AVD-18 UX2SBL	AVD-22 UX2SBL	AVD-24 UX2SBL	AVD-27 UX2SCL	AVD-30 UX2SCL	AVD-38 UX2SCL	AVD-48 UX2SDL	AVD-54 UX2SDL	AVD-76 UX7SEL*2	AVD-96 UX7SFL*2
Nominal Cooling Capacity		kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0
		kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100
		Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600
Nominal Heating Capacity		kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0	25.0	31.5
		kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500	21,500	27,100
		Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400	85,300	107,500
Noise Level (H/M/L)		dB(A)	30-26-24	30-26-24	32-30-28	32-30-28	33-31-29	33-31-29	34-32-30	34-32-30	38-34-30	38-34-30	39-35-31	41-38-33	43-39-34	50	52
Outer Dimensions	H	mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470
	W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250
	D	mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Net Weight		kg	25	25	25	25	34	34	34	34	44	44	44	56	56	94	106
Air Flow Rate (H/M/L)		m^3/h	480/420 /360	480/420 /360	780/660 /540	780/660 /540	900/780 /660	900/780 /660	960/840 /720	960/840 /720	1550/1350 /1150	1550/1350 /1150	1550/1350 /1150	2150/1800 /1500	2200/1900 /1500	3480	4320
Motor Power		W	110	110	150	150	150	150	150	190	300	300	300	430	430	950	1120
Piping Connections			Flare-nut Connection(with Flare Nuts)													Brazing	
Liquid Line		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 Line		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	Φ19.05	Φ22.2
Condensate Drain			VP25(Outer Diameter Φ32)														
External Static Pressure		Pa	30	30	30	30	30	30	30	30	60	60	60	60	60	100	100
Packing Volume		m^3	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06

NOTES:
1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20°C DB(68°F DB).
   Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
   With discharge duct (2.0m) and return duct(1.0m)
   The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.
3. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.
   *1: AC3Φ, 380V/60Hz: AVD- 76UX7SEH; AVD-96UX7SFH

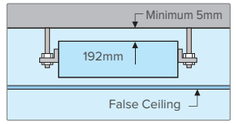
Ceiling Ducted Type (Low-Height)



Installation Space-saving

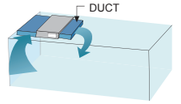
192mm

With the height of 192mm it can be easily installed inside a narrow residential ceiling.

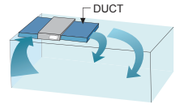


Adjustable Indoor Unit Static Pressure

The indoor unit can adjust the 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;

Excellent Air Flow

The cooling and heating air distributed from the unit to the indoor space through ducts which creates a comfortable environment.

Satisfy Varied Requests on Installation

Available air inlet as rear or bottom entry, consumers can choose relevant air inlet mode according to the practical installation space.

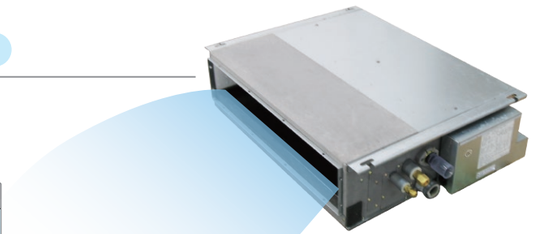
Drain Pump as a Standard Part

The drain-up length up to 900mm which enables the convenient drain piping and enlarges the flexibility of the installation.

Indoor unit			Ceiling Ducted Type (Low-height)								
Model Power Supply	AC1Φ 220 ~240V/50Hz		AVE-05UXCSAL	AVE-07UXCSAL	AVE-09UXCSAL	AVE-12UXCSAL	AVE-14UXCSAL	AVE-17UXCSBL	AVE-18UXCSBL	AVE-22UXCSBL	AVE-24UXCSBL
	AC1Φ 220V/60Hz			AVE-07UX2SAL	AVE-09UX2SAL	AVE-12UX2SAL	AVE-14UX2SAL	AVE-17UX2SBL	AVE-18UX2SBL	AVE-22UX2SBL	AVE-24UX2SBL
Nominal Cooling Capacity		kW	1.7	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1
		kcal/h	1,500	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100
		Btu/h	5,800	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200
Nominal Heating Capacity		kW	1.9	2.8	3.3	4.2	4.9	5.8	6.5	7.5	8.5
		kcal/h	1,700	2,400	2,800	3,600	4,200	5,000	5,600	6,500	7,300
		Btu/h	6,500	9,600	11,300	14,300	16,700	19,800	22,200	25,600	29,000
Noise Level (H/M/L)		dB(A)	29-28-25	27-24-21	27-24-21	32-30-27	32-30-27	34-30-28	34-30-28	36-32-29	36-32-29
Outer Dimensions	H	mm	192	192	192	192	192	192	192	192	192
	W	mm	697	900+73	900+73	900+73	900+73	1,170+73	1,170+73	1,170+73	1,170+73
	D	mm	447	447	447	447	447	447	447	447	447
Net Weight		kg	16	20	20	21	21	26	26	26	26
Air Flow Rate (H/M/L)		m^3/h	372/354/300	500/440/350	500/440/350	640/590/520	640/590/520	870/750/630	870/750/630	950/820/710	950/820/710
Motor Power		W	19	50	50	70	70	100	100	110	110
Piping Connections			Flare-nut Connection(with Flare Nuts)								
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25(Outer Diameter Φ32)								
External Static Pressure		Pa	10(0-10-30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Packing Volume		m^3	0.15	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18

NOTES:
1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20°C DB(68°F DB).
   Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
   The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.
   When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

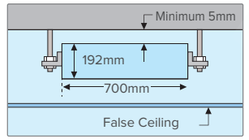
Ceiling Ducted Type (Slim Low-height)



Installation Space-saving

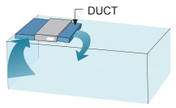
700mm

With the width of 700mm and the height of 192mm, it can be easily installed inside a narrow residential ceiling.

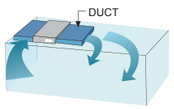


Adjustable Indoor Unit Static Pressure

The indoor unit can adjust the static pressure automatically according to the house structure and the installation condition, which ensures 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;

Excellent Air Flow

The cooling and heating air distributed from the unit to the indoor space through ducts creates a comfortable environment.

Satisfy Varied Requests on Installation

Available air inlet as rear or bottom entry, consumers can choose relevant air inlet mode according to the practical installation space.

Drain Pump as a Standard Part

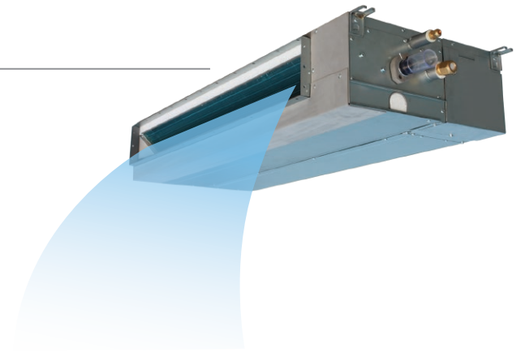
The drain-up length up to 900mm which enables the convenient drain piping and enlarges the flexibility of the installation.

Indoor unit			Ceiling Ducted Type (Slim)			
Model Power Supply	AC1Φ,220V/60Hz		AVE-07UXCSGL	AVE-09UXCSGL	AVE-12UXCSGL	AVE-14UXCSGL
	AC1Φ,220V/60Hz		AVE-07UX2SGL	AVE-09UX2SGL	AVE-12UX2SGL	AVE-14UX2SGL
Nominal Cooling Capacity		kW	2.2	2.8	3.6	4.3
		kcal/h	1,900	2,400	3,100	3,700
		Btu/h	7,500	9,600	12,300	14,700
Nominal Heating Capacity		kW	2.8	3.3	4.2	4.9
		kcal/h	2,400	2,800	3,600	4,200
		Btu/h	9,600	11,300	14,300	16,700
Noise Level (H/M/L)		dB(A)	27-23-21	27-23-21	31-29-27	31-29-27
Outer Dimensions	H	mm	192	192	192	192
	W	mm	700+70	700+70	700+70	700+70
	D	mm	602	602	602	602
Net Weight		kg	21	21	21	21
Air Flow Rate (H/M/L)		m^3/h	450/380/335	450/380/335	590/510/470	590/510/470
Motor Power		W	50	50	60	60
Piping Connections			Flare-nut Connection(with Flare Nuts)			
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Condensate Drain			VP25(Outer Diameter Φ32)			
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)
Packing Volume		m^3	0.15	0.15	0.15	0.15

NOTES: 1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB).
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

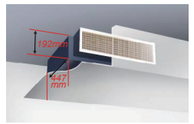
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
With discharge duct (2.0m) and return duct(1.0m)
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.
When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

Ceiling Ducted Type (DC Low-height)



Ultra-thin Body Design

192mm



With the height of 192mm and the depth of 447mm, it can make full use of the narrow space to realize various kinds of air flow.

DC Motor, Efficient and Energy-saving

DC

1.Equipped with the efficient and energy-saving DC motor, 6 adjustable fan speeds offered.
2.Extremly low operating noise;the lowest noise level is only 26dB(A) (suitable for both heating,cooling and air flow)

Adjustable Indoor Unit Static Pressure

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

Adjustable Humidity for Coziness

With the air inlet equipped with the humidity sensor, the humidity adjustment and control according to the indoor humidity condition can be realized.

Drain Pump as a Standard Part

The drain-up length up to 900mm which enables the convenient drain piping and enlarges the flexibility of the installation.

3D Air-flow Outlet

3D

Fashionable Appearance.
Smooth panel design.
Easy clean LED.
Backlight show.
Intelligent 3D air flow.
3 wind setting type (normal, 3D, super long distance).
Temperature and humidity display.
Wide louver working angle.

Indoor unit		Ceiling Ducted Type (DC Low-height)							
Model Power Supply	AC1Φ 220V~240V /50Hz/60Hz	AVE-07UXJSCL	AVE-09UXJSCL	AVE-12UXJSCL	AVE-14UXJSCL	AVE-17UXJSDL	AVE-18UXJSDL	AVE-22UXJSDL	AVE-24UXJSDL
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3	5	5.6	6.3	7.1
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5
	kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300
	Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000
Sound Pressure Level	dB(A)	29/27/26 /24/23/22	31/30/29 /27/25/24	33/32/30/29/26/25		36/34/33/32/30/27		37/36/34/32/31/29	
Outer Dimensions (H×W×D)	mm	192×910×447				192×1,180×447			
Net Weight	kg	20		21		26		26	
Refrigerant		R410A(Nitrogen-charged for corrosion-resistance)							
Indoor Fan Air Flow Rate	m^3/min	450/420/390 /360/330/312	540/492/444 /402/360/312	588/540/510/480/450/420		870/810/750/690/630/600		990/900/840/780/720/660	
Motor Power	W	33				57			
Refrigerant Piping Connection		Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm	Φ6.35				Φ6.35		Φ9.53	
Gas Line	mm	Φ12.7				Φ15.88		Φ15.88	
Condensate Drain		VP25(Outer Diameter Φ32)							
External Static Pressure	Pa	10(0-10-30)				10(0-10-50)			
Packing Volume	m^3	0.15				0.18			

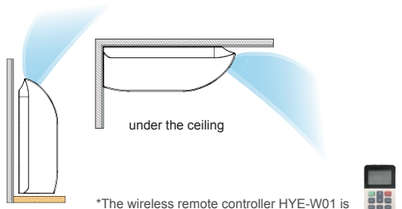
NOTES: 1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB).
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
With discharge duct (2.0m) and return duct(1.0m)
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.
When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

Ceiling & Floor Type

Flexible Installation

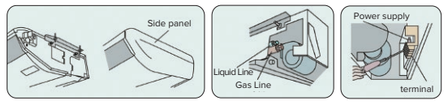
The unit can be installed either stand on the floor or hang under the ceiling.



*The wireless remote controller HYE-W01 is standard for Ceiling & Floor Type

Convenient Installation and Maintenance

Advanced structure design that makes the unit installatioin, pipe connection, even wiring work into simple.



1. Unit installation work can be done directly just open the side panel

2. After open side panel, big space for pipe connection provide convenience for pipe installation

3. Set DIP switch by opening electric box cover, simplification and convenience.

New Fashion Design Appearance and High Quality

The fashionable design and streamline appearance gives a perfect choice for users.The integrative side panel makes the whole unit more concordant.Huge air outlet with an integrative large louver realizes high air volume and low noise.

Intelligent 3D Air Flow

With horizontal and vertical air louver, the air flow can be adjusted freely. Fullfill the optimum air organization, and bring more comfortable.

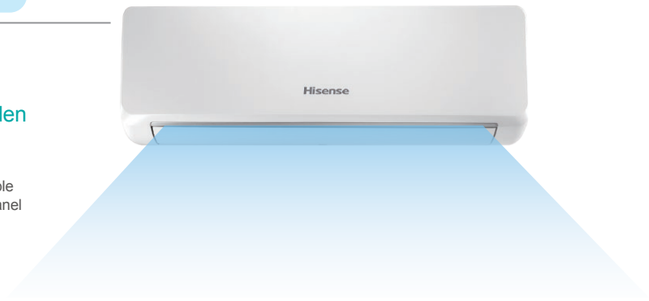
Indoor unit		Ceiling & Floor Type							
Model Power Supply	AC1Φ 220V~240V /50Hz	AVV-17URSCA	AVV-18URSCA	AVV-22URSCA	AVV-24URSCA	AVV-27URSCB	AVV-30URSCB	AVV-38URSCB	AVV-48URSCC
	AC1Φ 220V/60Hz	AVV-17UR2SA	AVV-18UR2SA	AVV-22UR2SA	AVV-24UR2SA	AVV-27UR2SB	AVV-30UR2SB	AVV-38UR2SB	AVV-48UR2SC
Nominal Cooling Capacity	kW	5	5.6	6.3	7.1	8.4	9	11.2	14.2
	kcal/h	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200
	Btu/h	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500
Nominal Heating Capacity	kW	5.6	6.5	7.5	8.5	9.6	10	13	16.3
	kcal/h	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000
	Btu/h	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600
Motor Power	W	40	40	70	70	70	80	130	160
Air Flow Rate (H/M/L)	m^3/h	780/660/540	780/660/540	966/840/678	966/840/678	1,092/912/732	1,164/978/798	1,488/1,230/978	1,980/1,680/1,380
Noise Level (Ceiling)	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
Noise Level (Floor)	dB(A)	43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Outer Dimensions	mm	990x680x230	990x680x230	990x680x230	990x680x230	1,285x680x230	1,285×680×230	1,285×680×230	1,580x680x230
Net Weight	kg	31	31	32	32	39	40	41	47
Gross Weight	kg	38	38	39	39	46	47	48	56
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)							
Piping Connections		Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain		VP25(Outer Diameter Φ32)							
Packing Dimensions	mm	1,110x830x340				1,400x830x340			1,690x830x340
Speed-up Setting HH1	m^3/h	852	852	1,068	1,068	1,188	1,272	1,620	2,160
Speed-up Setting HH2	m^3/h	960	960	1,200	1,200	1,338	1,410	1,752	2,244

NOTES: 1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB).
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following condations:
1.0m beneath the unit,1.0m from Discharge Grille.
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted,sound pressure will increase according to factors such as installation mode and the room structure.

Wall Mounted Type



The Design of Elegant Smooth Panel with Hidden LED Display

The quality of “Elegance” is to meet contemporary needs. The simple and smooth form harmonizes with any interior style. The smooth panel can be cleaned easily.

Anti-mold Filter

Anti-mold filter is equipped as standard accessory.

Free Installation

The water drain pipe can be set either on the left side or on the right side of the unit. The connection pipe can be set in left, right or back side of the unit.

Compact and Light Weight, Allowing Easy Installation

For easy installation, a slim design is adopted to this new model by using a high proportion of lightweight resin parts, which greatly reduced the weight of the unit.

Sleep Mode Bring You Comfortable Temperature for Good Sleep

Sleep mode can be kept for 8 hours. The setting temperature will be adjusted automatically for your comfortable.

Quiet Operation for Super Low Sound Level

The one-touch quiet operation can set the system work in a super low speed and make the noise level low to 28 dB(A).

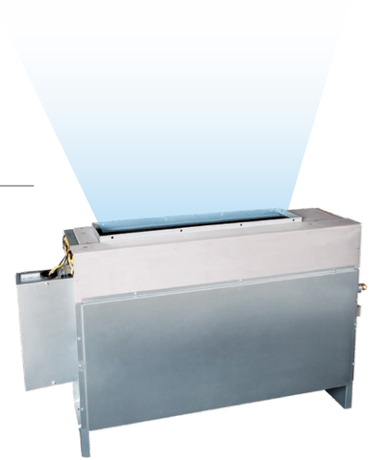
Indoor unit		Wall Mounted Type							
Model Power Supply	AC1Φ220V ~240V/50Hz	AVS-07URCSABA	AVS-09URCSABA	AVS-12URCSABA	AVS-14URCSABA	AVS-17URCSABA	AVS-18URCSBBA	AVS-22URCSBBA	AVS-24URCSBBA
	AC1Φ220V/ 60Hz	AVS-07UR2SABA	AVS-09UR2SABA	AVS-12UR2SABA	AVS-14UR2SABA	AVS-17UR2SABA	AVS-18UR2SBBA	AVS-22UR2SBBA	AVS-24UR2SBBA
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	kcalh	1,900	2,400	3,100	3,450	4,300	4,816	5,418	6,106
	Btu/h	7,500	9,500	12,300	13,600	17,000	19,100	21,500	24,200
Nominal Heating Capacity	kW	2.5	3.3	4.0	4.5	5.6	6.3	7.1	8
	kcalh	2,150	2,800	3,450	3,900	4,800	5,418	6,106	6,880
	Btu/h	8,500	11,100	13,600	15,300	19,100	21,500	24,200	27,300
Indoor Fan Air Flow Rate (High/Medium/Low/Mute)	m^3/h	660/590/520/460	660/590/520/460	830/660/520/460	830/660/520/460	900/750/590/460	893/782/671/582	1,006/893/716/621	1,122/984/804/649
Sound Pressure Level (High/Medium/Low/Mute)	dB(A)	39/34/32/28	39/34/32/28	43/39/32/28	43/39/32/28	45/40/34/29	41/37/34/30	44/41/36/31	46/43/38/33
Net Weight	kg	13.5	13.5	13.5	13.5	13.5	16.0	16.0	16.0
Gross Weight	kg	17.0	17.0	17.0	17.0	17.0	20.0	20.0	20.0
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)							
Motor Power	W	50	50	60	60	65	62	72	82
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain		VP16							
Outer Dimensions (H×W×D)	mm	315×960×230	315×960×230	315×960×230	315×960×230	315×960×230	315×1,120×230	315×1,120×230	315×1,120×230
Packing Outer Dimensions(H×W×D)	mm	445×1,080×355	445×1,080×355	445×1,080×355	445×1,080×355	445×1,080×355	438/1,238/349	438/1,238/349	438/1,238/349
Approximate Packing Measuremen	m^3	0.17	0.17	0.17	0.17	0.17	0.19	0.19	0.19
Wireless Remote Controller/Receiver		HYE-L01+Receiver							
Wired Remote Controller		Option	Option	Option	Option	Option	Option	Option	Option
Fan motor		PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor
Drain Pump		NO	NO	NO	NO	NO	NO	NO	NO

NOTES: 1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB).
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions:
1.1m beneath the unit and 1.0m from inlet grille.
Voltage of the power source for the indoor fan motor is 220V.
In case of the power source of 240V, the sound pressure level increases by about 1~2dB.
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

Floor Concealed Type



Compact Design Fitting Into a Tiny Space

The design places special emphasis on the compatibility with the interior design as well as space saving design, allowing it to fit perfectly into the space below a bay window. So compact that it fits into even a tiny space.

Perfectly fit the indoor decoration

No matter what kind of decoration style it is, Hisense floor concealed type can be able to match it.

Two-level static pressure available

High static pressure achieves long distance air exhaust. The air can be reach to every part of the room.

Hidden installation, space saving

Hisense floor concealed type can be installed in the decoration space, which is covered by the decoration.

Indoor unit		Floor Concealed Type			
Model Power Supply	AC1Φ, 220~240V/50Hz	AVH-09UXCSAA	AVH-14UXCSAA	AVH-18UXCSBA	AVH-24UXCSBA
	AC1Φ, 220V/60Hz	AVH-09UX2SAA	AVH-14UX2SAA	AVH-18UX2SBA	AVH-24UX2SBA
Nominal Cooling Capacity	kW	2.8	4.3	5.6	7.1
	kcal/h	2,400	3,700	4,800	6,100
	Btu/h	9,600	14,700	19,100	24,200
Nominal Heating Capacity	kW	3.3	4.9	6.5	8.5
	kcal/h	2,800	4,200	5,600	7,300
	Btu/h	11,300	16,700	22,200	29,000
Noise Level (H/M/L)	dB(A)	34-31-27	40-36-34	41-36-32	44-40-36
Cabinet Color		Silky White			
Outer Dimensions	H-mm	620	620	620	620
	W-mm	948+139	948+139	1,218+139	1,218+139
	D-mm	202	202	202	202
Net Weight	kg	18	22	26	27
Air Flow Rate (H/M/L)	m^3/h	510/450/380	620/540/480	890/740/630	980/830/710
Motor Power	W	50	80	90	120
Piping Connections		Flare-nut Connection(with Flare Nuts)			
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53
Gas Line	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate Drain		VP25	VP25	VP25	VP25
Packing Volume	m^3	0.19	0.19	0.23	0.23

NOTES:

1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB).
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2.The sound pressure level is based on the following conditions:
1.5m meters from the unit and 1.5m meters from floor level.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

CONTROL SYSTEM

WITH HIGH INTELLIGENCE

The intelligent control system of Hisense central air conditioning can realize automatic control through one computer, which makes it easy to learn the overall system operation and detect and solve problems promptly. Meanwhile this system can achieve electricity household metering with humanized intelligent control and efficient and convenient management to make users enjoy the modern intelligent life.

Wired Controller

Main Functions

- Cooling/Heating/Dry/Fan/Auto
- Holiday Setting
- Error Code Display
- Timer
- Fan speed/Swing Louver
- Weekly Timer
- Error History Display
- Air Filter Cleaning Reminding
- Temperature Setting
- Check
- Lock
- Address Setting

HYXE-J01H

Main Functions

- Cooling/Heating/Dry/Fan/Auto
- Multiple Speed
- Swing Louver
- 72-hour Timer
- Optional setting
- Max. 16 indoor units can be connected
- 0.5℃ temperature Setting
- One Touch Test Run
- 3D airflow Setting
- Backlight control
- Air Filter Cleaning Reminder
- Error Code Display
- Check

HYXE-VA01

Main Functions

- 86×86mm smart size
- Multiple speed/Swing louver
- Air filter cleaning reminding
- Backlight
- Inserting
- Temperature setting
- Check
- Control Max.6 indoor units
- Cooling/Heating/Dry/Fan/Auto
- 72-hour Timer
- Error Code Display
- Dehumidification

HYXE-M01H

Main Functions

- Cooling/Heating/Dry/Fan/Auto
- Icon function display
- Touch buttons
- Quiet
- Check
- Temperature Setting
- Air filter cleaning reminding
- Dehumidification
- Fan Speed/Swing Louver
- 3 or 6 Speed Control
- Timer
- Test Run
- Optional setting
- Touch Key

HYXE-S01H

Wireless Controller

Main Functions

- Cooling/Heating/Dry/Fan/Auto
- 24-hour Timer
- Dehumidification
- Temperature setting
- Quiet mode setting
- 6 Fan speed/Swing louver
- Sleep mode setting

HYE-W01

Receiver Kit for Wireless Control - Optional

Centralized Controller

Main Functions

- Group Control(ON/OFF)
- Indoor Units Auto Login in
- Indoor Unit Power OFF Reminder
- Error Reminder

HYJ-J01H

Main Functions

- Clock Setting
- Time display mode setting
- Energy saving control mode
- Backlight
- Holiday Setting
- Setting Temperature limitation
- Power Indicator
- Backlight Brightness Adjusting
- Backlight Auto-Off Time Adjusting
- Alarm history
- Service Hotline Setting
- Weekly Schedule

HYJM-S01H

Smooth Appearance

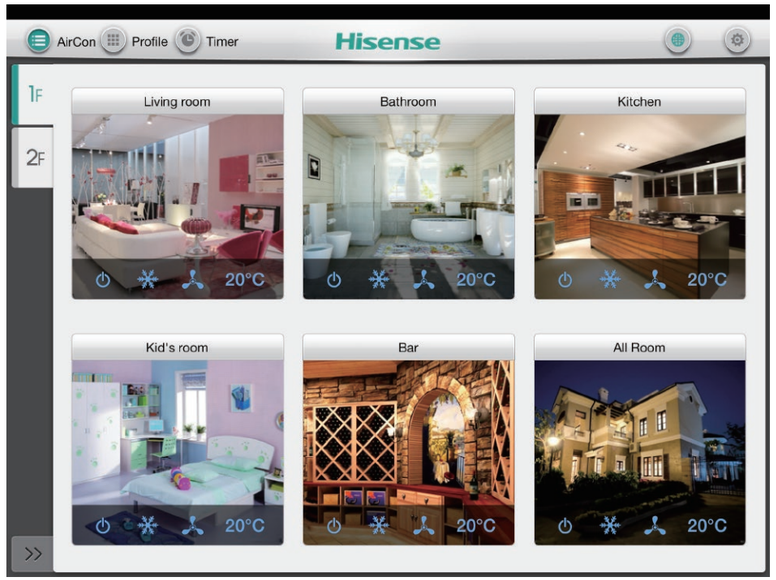
Easy Installation

Type		Wired Controller				Wireless Controller
Model		HYXE-VA01	HYXE-J01H	HYXE-M01H	HYXE-S01H	HYE-W01
Picture						
Suit for indoor unit	Duct Type	○	○	○	○	○
	4-Way Cassette	○	○	○	○	○
	4-Way Cassette（compact）	○	○	○	○	√
	1-Way Cassette	○	○	○	×	○
	2-Way Cassette	○	○	○	×	○
	Ceiling&Floor	○	○	○	○	√
	Wall Mounted	○	○	○	○	√
	Floor Conocealed	○	○	○	×	○
	DC Low Height	○	○	○	×	○
	All Fresh Air Indoor Unit	○	○	○	○	○
	Heat Recovery Ventilation	○	○	√	×	×
	3D Air-flow Panel	○	○	○	×	○
	AHU KIT	○	○	×	×	×

Type		Receiver Kit			Centralized Controller	ON/OFF
Model		HYRE-V02H	HYRE-T02H	HYRE-X01H	HYJM-S01H	HYJ-J01H
Picture						
Suit for indoor unit	Duct Type	○	×	×	○	○
	4-Way Cassette	×	○	×	○	○
	4-Way Cassette（compact）	×	×	×	○	○
	1-Way Cassette	×	×	○	○	○
	2-Way Cassette	○	×	×	○	○
	Ceiling&Floor	×	×	×	○	○
	Wall Mounted	×	×	×	○	○
	Floor Conocealed	○	×	×	○	○
	DC Low Height	○	×	×	○	○
	All Fresh Air Indoor Unit	○	×	×	○	○
	Heat Recovery Ventilation	×	×	×	○	○
	3D Air-flow Panel	○	×	×	×	×
	AHU KIT	×	×	×	○	×

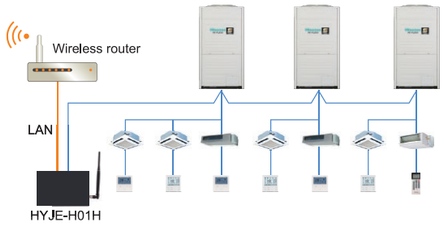
Remarks: ○ Optional × Incompatible √ Standard

Hi-Mit



Main Functions

- ON/OFF control, Operation mode, Temperature setting, Airflow Setting
- Operate according to a schedule
- Display the alarm code
- off home mode and energy-saving mode
- Max. 32 indoor units can be controlled
- Dimension: 215×137×38 mm



Adapter Specifications

Model name	HYJE-H01H	Operating temperature	0℃ ~40℃
Input voltage	AC 110~240V 60Hz	Maximum operating current	10mA (220 V)

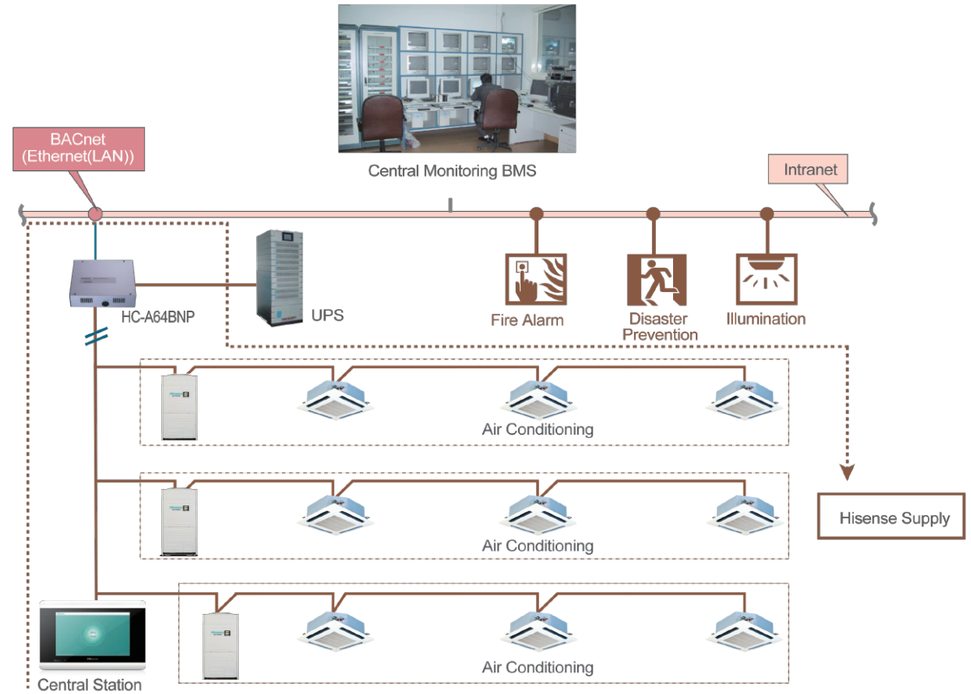
*The standard parts of this system includes the converter HYJE-H01H and the client control software HRM-G01 (it can be downloaded and installed in the APP STORE), The IPAD is the registered trademark of Apple Inc.

Building Management System

Compatible to multiple communication protocols of BACnet, MODBUS etc. Connectible to BMS or Smart Home System via HC-A64BNP or HCPC-H2M1C all of which can connect to Max. 64 indoor units.

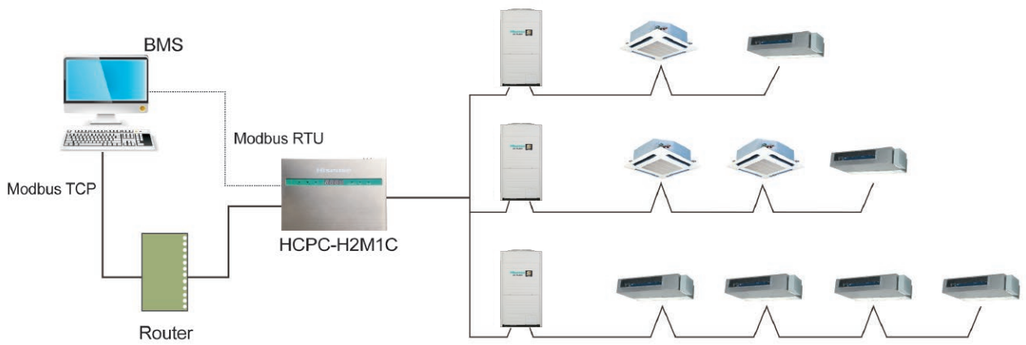
Real-time operation status monitoring on request.
Operation commands from monitoring center

HC-A64BNP BACnet



- Running-state Monitoring / On-off Setting
- Operating Mode Setting
- Temperature Setting and Monitoring
- Airflow Setting and Monitoring
- Alarm Monitoring and Code Display
- Communication Failure Display
- Wireless Controller Permission/Prohibition
- Indoor Temp. Monitoring
- Filter Cleaning Prompting

HCPC-H2M1C Modbus



- On-Off Setting
- Operating Mode Setting
- Airflow Setting and Monitoring
- Wind Setting and Monitoring
- Temperature Setting
- Inlet Air Temp. Monitoring
- All Units On/Off Control
- Alarm Monitoring and Code Display

Converter Specifications

Item \ Converter	HC-A64BNP	HCPC-H2M1C
		
BMS connection	BACnet	Modbus
Power supply	AC100~240V±10%(60Hz)	AC100~240V±10%(60Hz)
Connectable central controller	HYJM-S01H	HYJM-S01H, Hi-Dom, HYJ-J01H
MAX.number of connectable indoor units	64	64
Dimension （LxWxH）	240mm×204mm×70mm	220mm×140mm×50mm

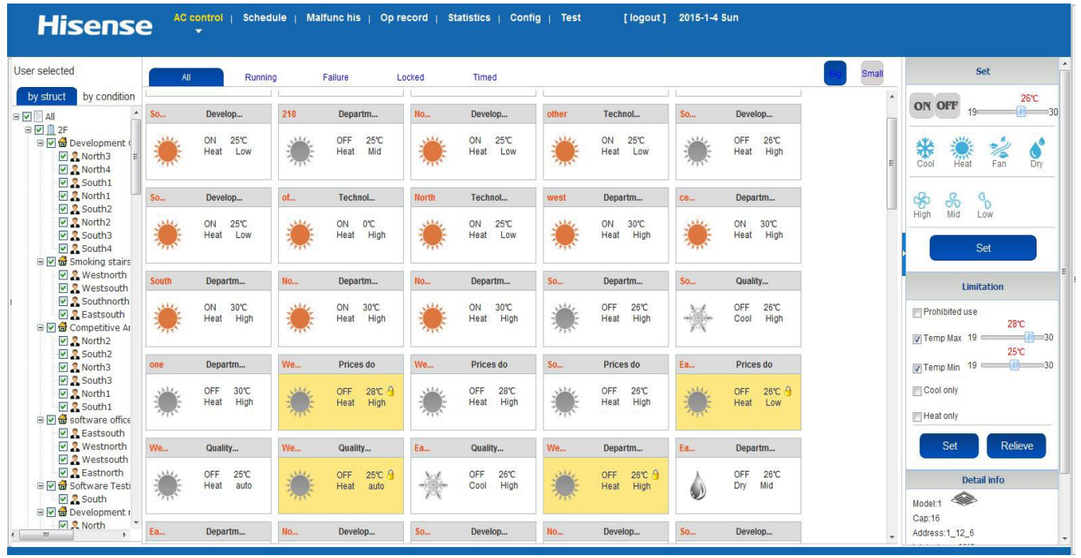
Hi-Dom Air Conditioning Management System

Centralized Control

Hi-Dom air conditioning management system adopts communication bus connection, air conditioning indoor units are connected to the computer through network converter; the system is controlled automatically by a computer with powerful functions. One single computer control system can manage 4,096 indoor units.

Main Functions

- Running-state Monitoring
- Determine the Temperature Limit
- Running Records Display
- Controller Prohibition Function
- Access Control
- Automatic Operation According to Settings
- Multifunction Alarm
- Service Monitoring

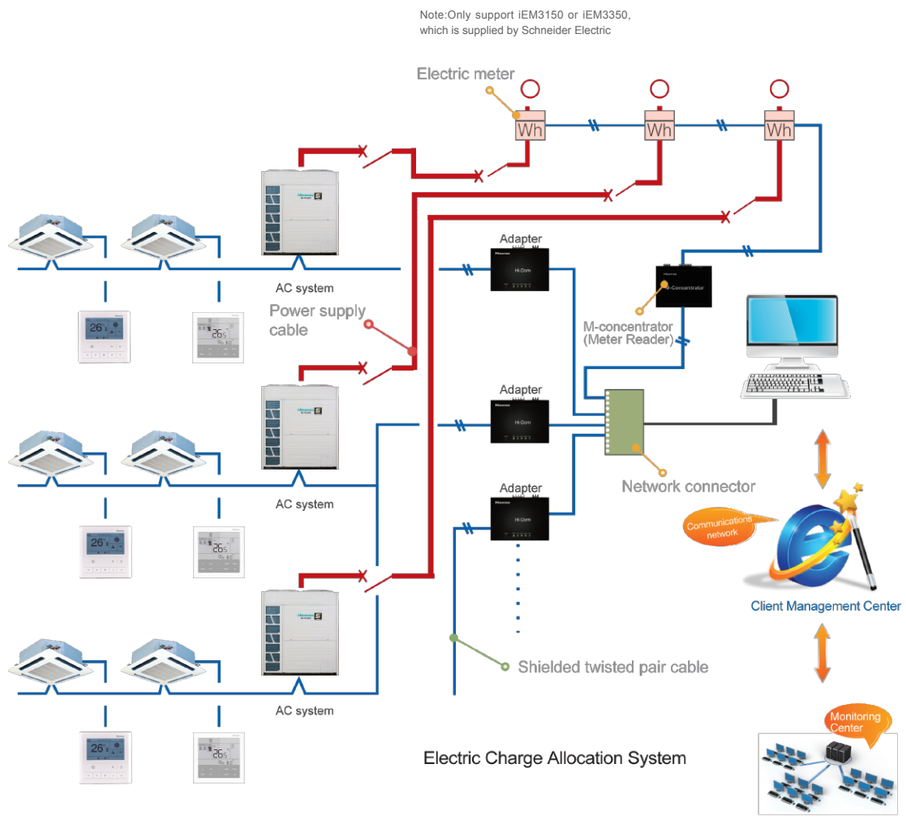


All the indoor units and outdoor units connected with one adapter comprise one communication BUS system .
Max.128 indoor units can be connected to an adapter
Max.32 adapters can be controlled by one computer.
Max.4096 indoor units are under control.

Electric Charge Allocation

Hi-Dom air conditioning management system consists of meter reading system and air conditioning management system. In accordance with the operation time and capacity output of indoor and outdoor units, the electric charge allocation software allocates the total power consumption to each indoor unit.

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.



Hi-Dom System Specifications

	Model Name	Power Supply	Dimension(mm)	Charging Function
Adapter (Hi-Dom)	HCCS-H128H2C1YM	DC 12V	180×110×40	With charging function
	HCCS-H128H2C1NM	DC 12V	180×110×40	Without charging function
	HCCS-H247R4C1E	DC 12V	180×110×40	——

Note:HCCS-H247R4C1E is an essential equipment for HCCS-H128H2C1YM to charging.

Filter

Ceiling Ducted Type(Slim)

Model	Applicable models	Picture
AVE-07~14*	HF-40L-ZFE	

Ceiling Ducted Type (Low&High Static Pressure)

Model	Applicable models	Picture
AVD-07~14*	KW-PP1Q	
AVD-17~24*	KW-PP2Q	
AVD-27~38*	KW-PP3Q	
AVD-48~54*	KW-PP4Q	
AVD-76*	HF-224L-FE	
AVD-96*	HF-280L-FE	

Ceiling Ducted Type (Low Height& DC Low Height)

Model	Applicable models	Picture
AVE-07~14*	KW-PP5Q	
AVE-17~24*	KW-PP6Q	

Drain Pump—Optional

Model	Power supply	Consumption	MAX. Lift (mm)	Applicable models	HPS-132/HPS-162	HPS-151
HPS-132	AC 220~240V(60Hz)	9±1.5 W	900	For Ceiling ducted type(0.8~2.5HP)		
HPS-162	AC 220~240V(60Hz)	9±1.5 W	900	For Ceiling ducted type(3.0~6.0HP)		
HPS-151	AC 220~240V(60Hz)	9±1.5 W	600	External type,for general purpose(0.8~10HP)		

3D Air-Flow Panel

Panel Model	Applicable Models	Outer Dimensions (H×W×D)	Interface Dimension (H×W×D)
HP-DB-NA	0.8~1.5HP	180×950×70	750×130
HP-EB-NA	1.8~2.5HP	180×1220×70	1020×130

Note:For Ceiling Ducted Type (DC Low-height)