

Hisense



# AIR CONDITIONING SOLUTION

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Reimagine your solution



**Hisense**  
*to Be with you*

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# RELIABILITY

*AIR  
CONDITIONING  
SOLUTION*

Refrigerant Circuit

Weather & Corrosion-proof

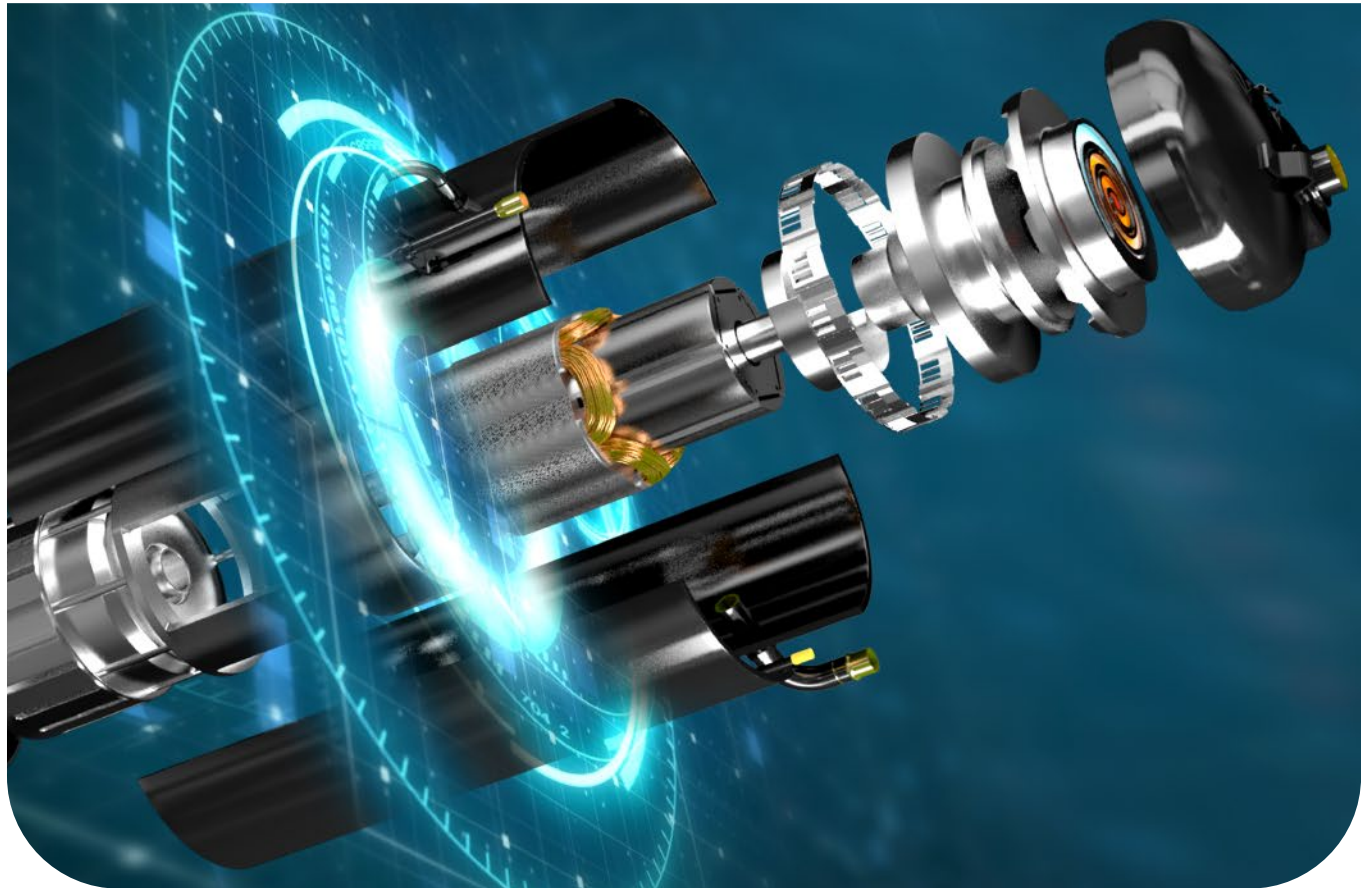
Electrical & Electronics

System & Operation

Reliability



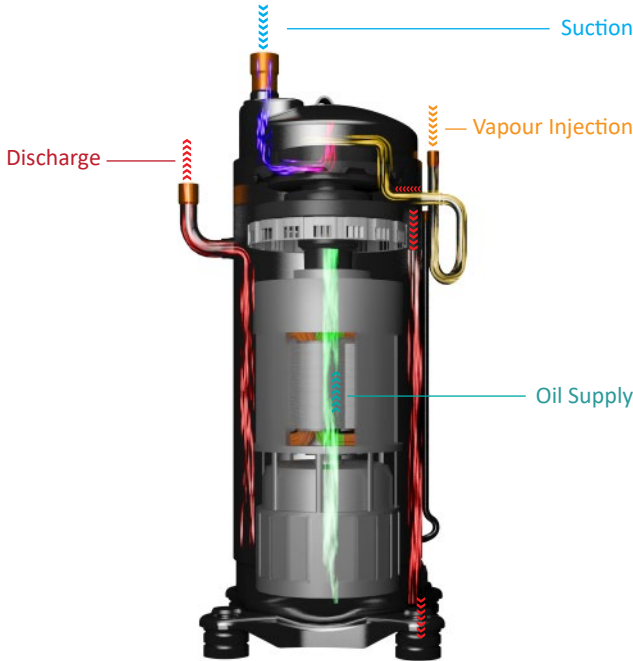
# Refrigerant Circuit



## Revolutionary HVAC compressor

### Vapour injection technology

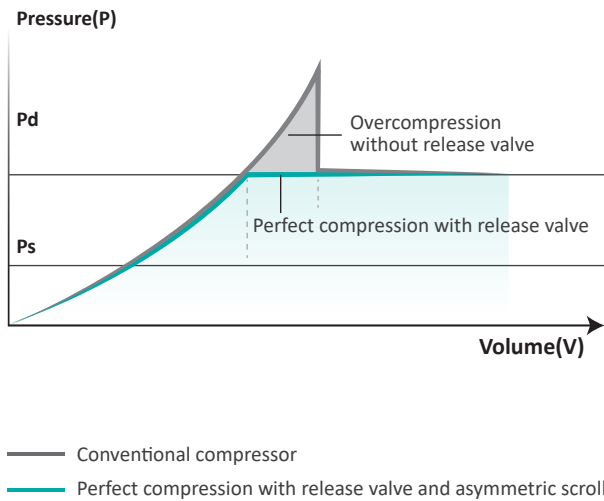
New generation scroll compressor is now patented with higher performance capability vapour injection technology, increasing capacity upto 25% compared to conventional scroll compressor with same amount of power consumed.



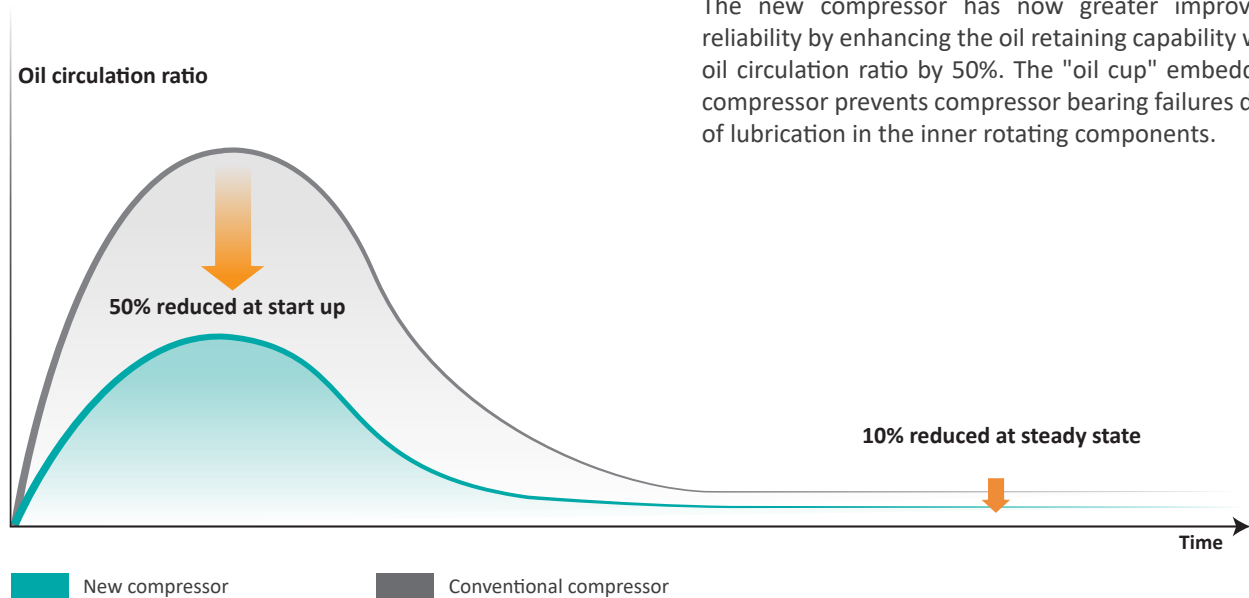
# Refrigerant Circuit

## Efficient energy usage

Wasted power is reduced by minimizing leakage and anti-overcompression while compressing refrigerant gas with asymmetric scroll and patented release valves.



## Enhanced oil level retaining capability



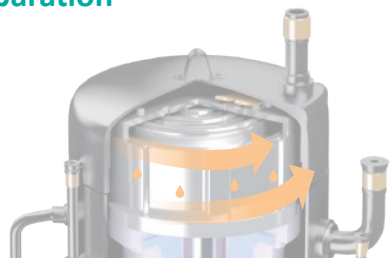
The new compressor has now greater improvement in reliability by enhancing the oil retaining capability with lower oil circulation ratio by 50%. The "oil cup" embedded in the compressor prevents compressor bearing failures due to lack of lubrication in the inner rotating components.



# Refrigerant Circuit

## Oil separation and oil return

### Oil separation



First-stage Oil Separation

First-stage oil separation is realized through efficient oil separation structure inside the high-pressure-chamber compressor. Only a small amount of oil is brought out of the compressor.

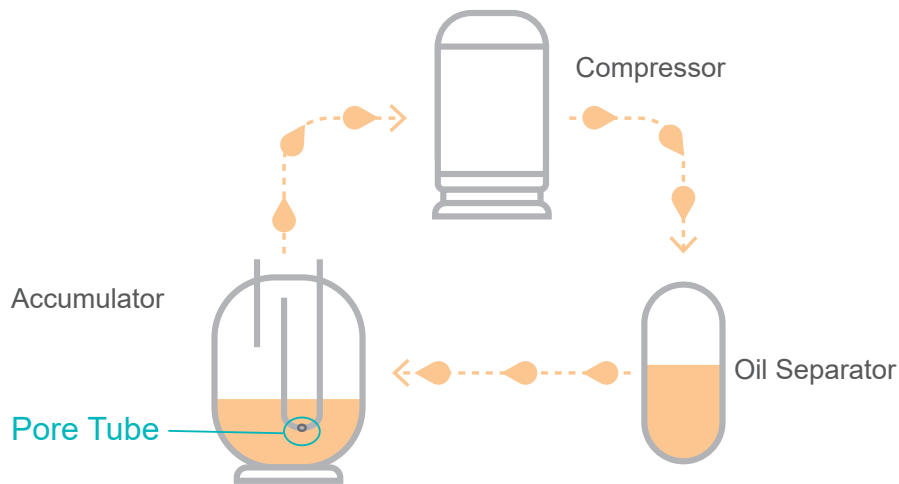


Second-stage Oil Separation

During second-stage oil separation, the small amount of oil discharged from compressor is separated by a large-capacity, high-efficiency centrifugal oil separator, with efficiency over 99%.

### Oil return

The accumulator adopts pore tube oil return technology with a built-in fine strainer, which not only ensures oil balance between compressors within one module, but also plays an important role in the oil balance between modules. Besides this, the system implements oil-return function based on compressor frequency and corresponding operation time. The oil-return takes 60 seconds and can return to previous condition when it is finished. In winter under heating mode, this operation is implemented without switching to cooling mode, which guarantees the heating performance.



# Anti-corrosion Solution

Hisense's complete corrosion-proof is a perfect solution in seaside and chemical factory applications, providing ultimate comfort without sacrificing life span and reducing maintenance cost simultaneously. Besides the heat exchanger, component from top to toe are treated with effective treatments and tested according to ISO, ASTM and GB standards.

- 1 Front Panel**  
Galvanized steel treated with zirconium & 100μm~180μm epoxy zinc rich primer + pure polyester paint coating.
- 2 Heat Exchanger**  
Black fin with epoxy resin & hydrophilic film .
- 3 Electrical Box**  
Galvanized steel treated with zirconium & 50μm~120μm pure polyester.
- 4 Fan Motor**  
Coated with 10μm ~30μm Acrylic Resin coating Thickness: 10μm ~30μm
- 5 Top Grill**    **6 Motor Bracket**    **7 Protection Net**



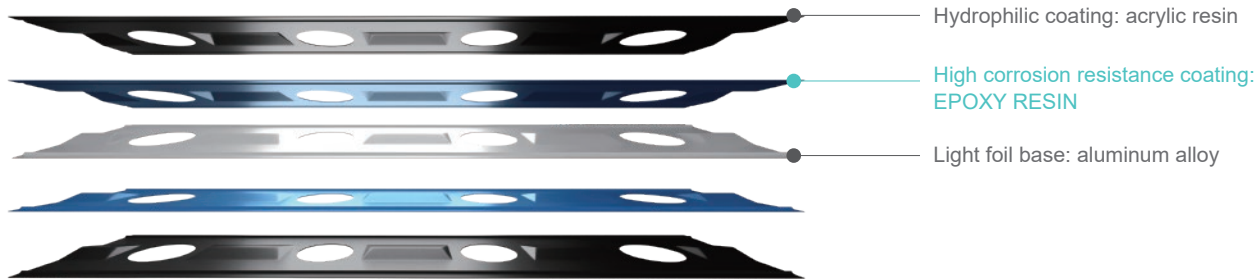
## Hisense anti-corrosion black fin (optional)

Hisense and-corrosive fins are coated with epoxy resin using film-forming techniques compared with traditional acrylic resins. The epoxy resin is 1.5 times thicker than

acrylic resin, and its acid-resistant, alkali-resistant and salt-fog resistant properties is 3 times better than acrylic resin.

### Hi black fin

The moisture facilitates ionization of Zinc. It will protect fins from corrosion.



# System & Operation



## Severe reliability quality tests

### Non-affecting reliability transportation

As common as items being transported by logistic transportations on roads and sea, the constant vibration during shipment would accelerate wear and tear rates, which eventually pull down the reliability of the unit. To cope to and overcome such conditions, strict laboratory assessments are required using simulators mimicking the real shipping conditions of upto 6000 km and 500 minutes road distance and 240 minutes sea distance.



### Extreme weather withstand ability

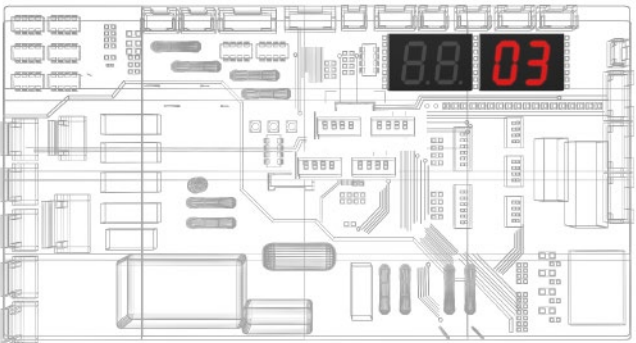
Hisense VRF air-conditioning units are tested many times under extreme conditions, such as intense low outdoor temperature, extreme high indoor temperature, rain or sun shine, etc. to ensure the best performance in the laboratory.



## Self-diagnosis, protect & regulate

### Self-diagnosis

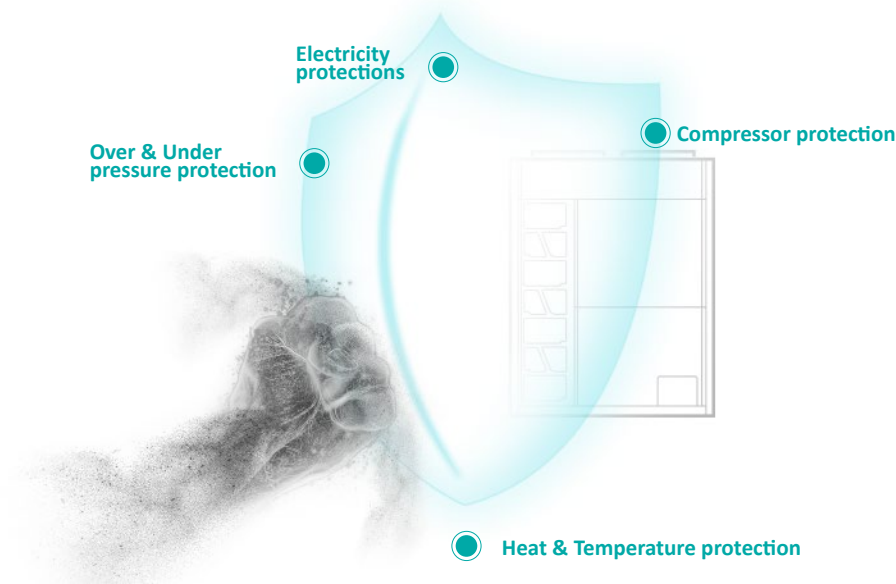
Alarm codes will flash when an error or breakdown occurs, which is helpful for installers and end-users to understand what's going on during test run. Besides alarm codes, operating status and parameters such as history temperature, pressure, compressor frequency and etc. are traceable on controllers and the outdoor unit, making service maintenance and troubleshooting much easier.



### Self-protection measures

Hisense VRF can protect itself with algorithms embedded to make necessary protective decisions and measures by different sensor readings and parameters, including

compressor protections, temperature protections, system pressure protections and electricity protections.



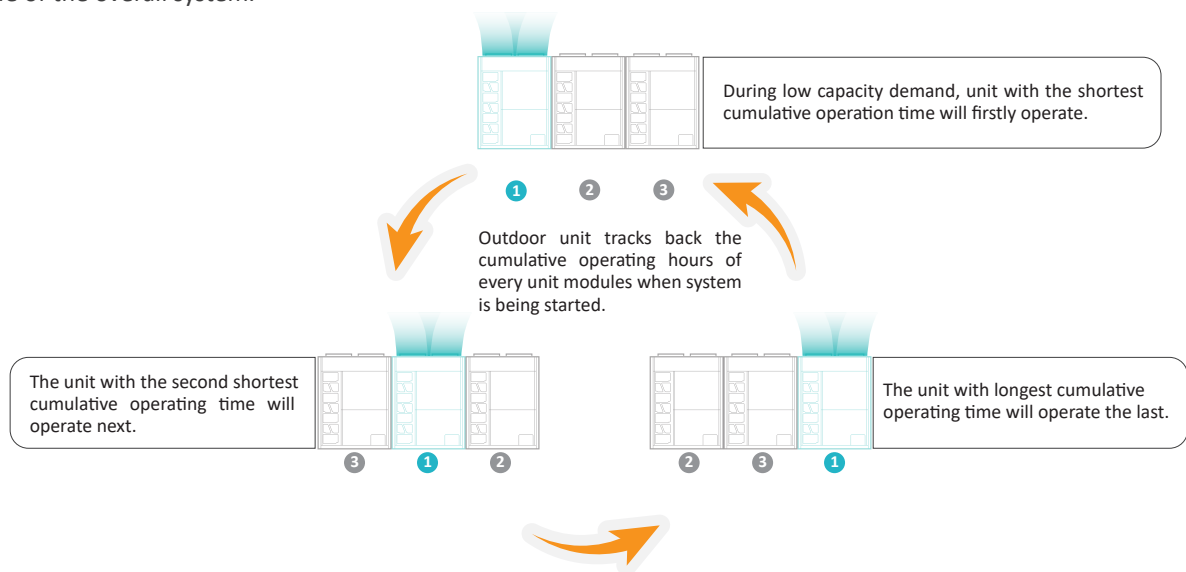


# System & Operation

## Smart rotative operation & double back-up protection

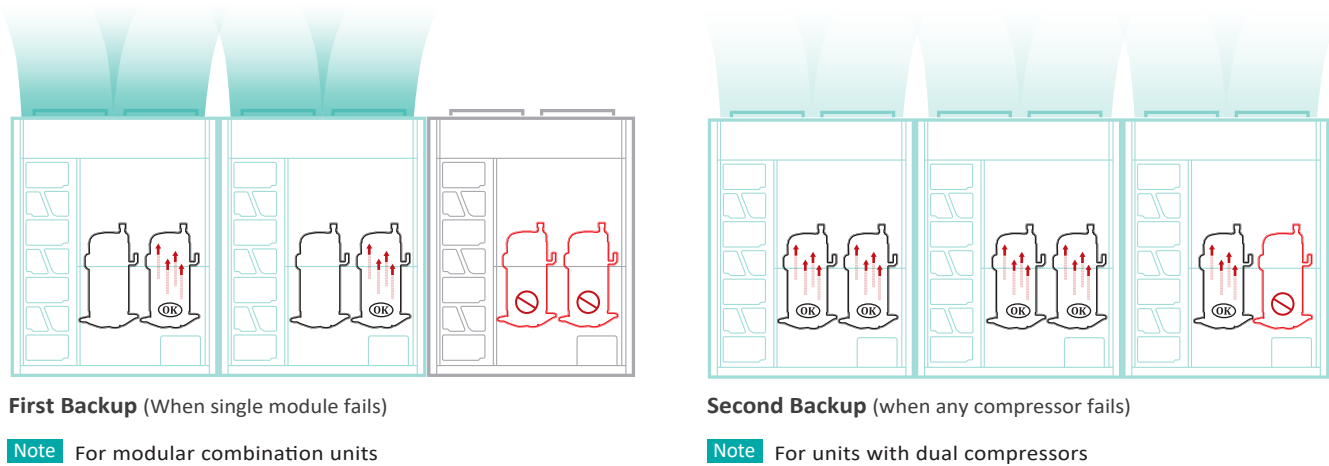
### Smart rotational operation

Operation duties are smartly balanced in higher capacity module combinations to prevent occurrence of individual unit overworked and hence extending the overall operating life of the overall system.



### Double back-up protection

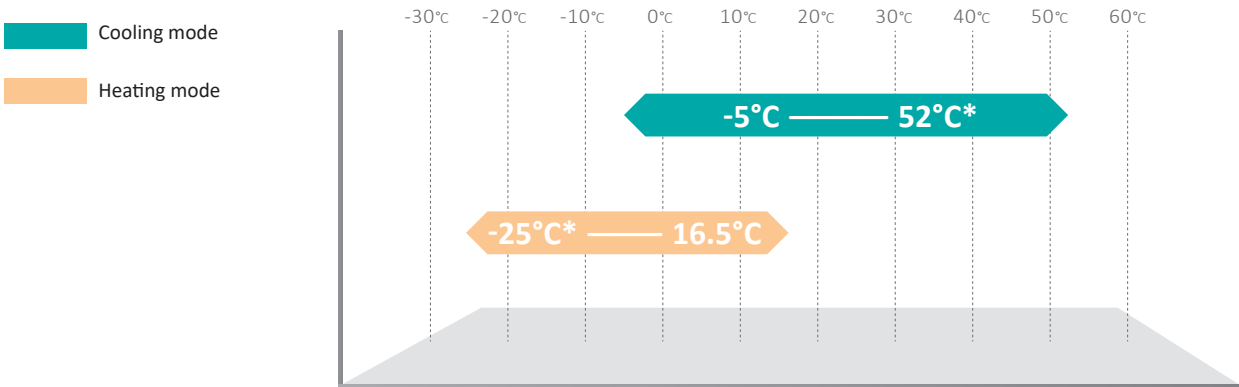
Hisense VRF has a standard double back-ups to keep you staying comfy indoors despite having a compressor or any one unit of a modular combination fails as other compressors and units will proceed and step up its operation to ensure user's continuous comfort.



## Wider operation range

Extended operation range creates wider application potential, in cooling mode the operation range is from

-5°C to 52°C and in heating mode the operation range is from -25°C to 16.5°C, which adapts to extreme conditions.



#### Note

When the temperature is in 48°C~52°C and -20°C~-25°C, the module is in intermittent operation.

## Auto snow accumulation prevention

To maintain the reliability of the outdoor unit despite with harsh environmental conditions, Hisense VRF is made compatible to snow sensors to naturally cast out snow, preventing snow being piled up.

#### Note

Sensor connection ports are available for connection but snow sensors are not supplied.



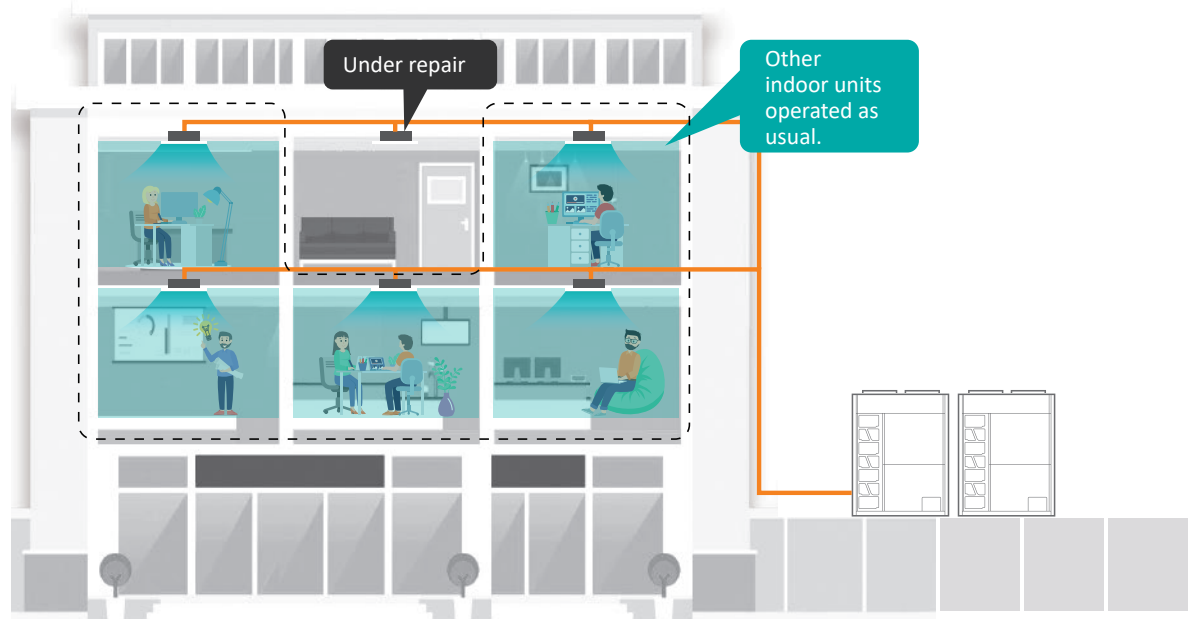
# Reliability



## Urgent power-off

To maintain the whole system's continual operation when there is a breakdown in the system , Hisense VRF is capable to isolate the malfunction unit from the others while conducting restoration and maintaining continuous operation of other units simultaneously. Especially

practical for retail shops or offices where multiple indoor units share the same system, there is a breakdown or powered cut-off during renovation of a shop does not affect shops of the same system from routine business operation.

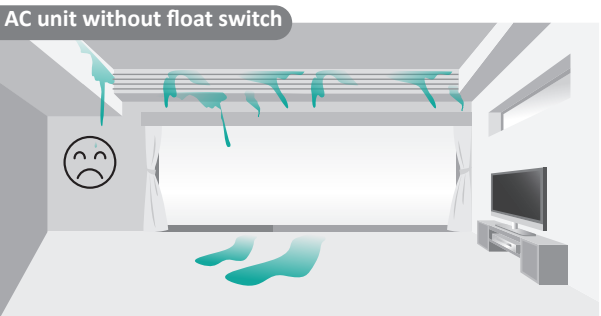


\*Preliminary setting is unnecessary

# Reliability

## Condensate leakage protection

Besides providing reliable air-conditioning units, we also want to keep your possessions lasting. Hence, our indoor units have build-in water-leakage float switches. Alarming warnings will be displayed on controllers when condensate reaches a certain level, and will automatically turn-off itself when it reaches a threatening level, to save your ceilings and carpets from being soaked in times when drain pipes are clogged or drain pump breakdowns.



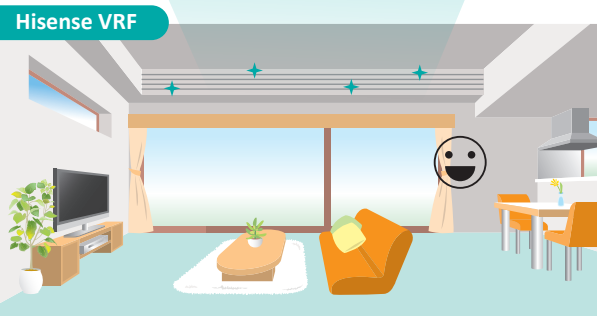
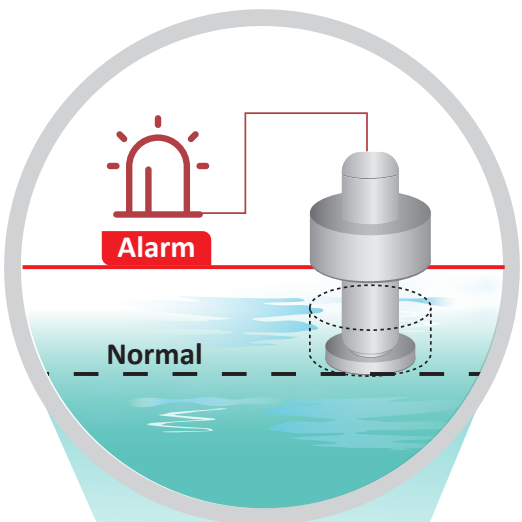
## Effective drainage solution

### High quality seals

Water could seep through anywhere as long as there is a void. Thus, Hisense utilizes the best quality sealing material to seal up gaps between the heat exchanger and drain pan, which effectively prevents condensate leakage.

### Transparent drain pipe

To ease drainage inspection, Hisense indoor units adopt transparent drain hose connection. It enhances installation and maintenance, making sure drain hoses are connected securely and make blockage inspections much easier.



### Anti-corrosion drain pan

Conventional drain pans made of metal are prone to corrosion after continual exposure in moisture and air, as well as mold and algae reproduction. Hisense indoor unit built-in drain pans made out of ABS coated foam keep them from corrosion and smooth condensate discharge, effectively prevents mold and algae growth. Not to mention, it will greatly improve thermal insulation and anti-aging properties.





# EFFICIENCY

## AIR CONDITIONING SOLUTION

Efficient Heat Exchanger

Intelligent Defrosting

90s Rapid Start-up

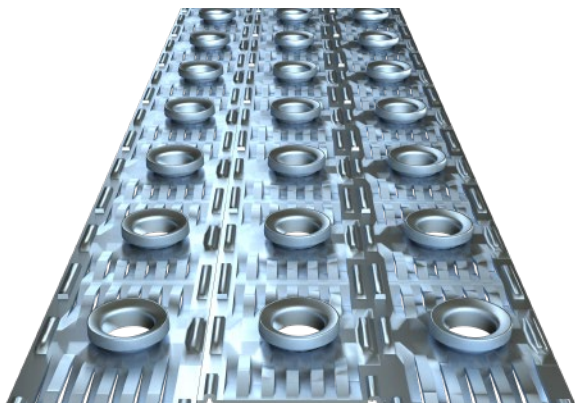
Steady Air Discharge

High Precision Automatic  
Capacity Output

# Efficient Heat Exchanger

## New advanced corrugated fin design

A new commitment is made on new fin design to create better efficiency and more durable heat exchanger. With this new design, larger amount of fins can be allocated into the heat exchanger, increasing 22% heat exchange surface area.

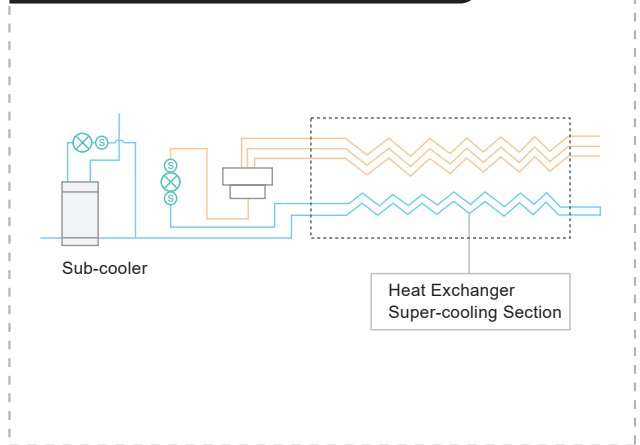


Stepped fins

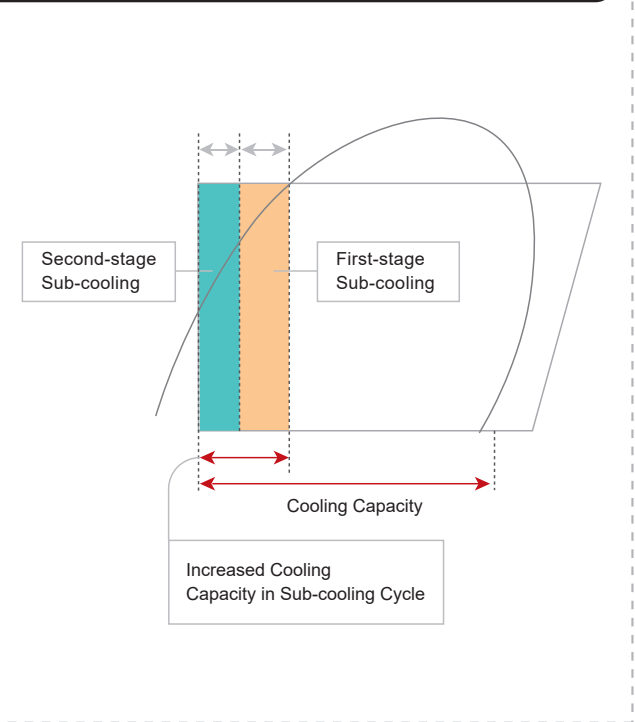
## Two-stage subcooling

Comparing with the conventional VRF systems without subcoolers, the subcooling temperature is about 12.5°C in systems with one stage subcoolers. However, Hisense VRF's 2-stage subcooling technology can realize the subcooling temperature upto 27°C, distinctly improved cooling capacity of the system by pushing refrigerant further beyond its condensing temperature.

### Second-stage Sub-cooling Cycle Diagram



### Second-stage Sub-cooling Pressure Enthalpy Diagram

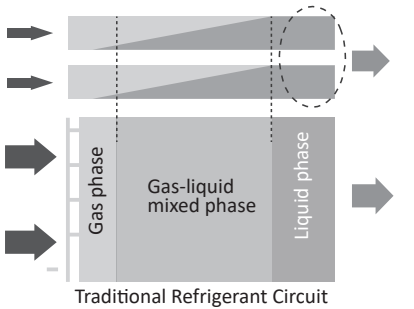
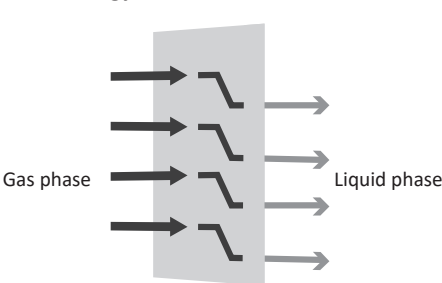


# Efficient Heat Exchanger

## Optimized refrigerant circuit

As refrigerant flows in the system, energy will lost due to friction and other factors naturally, especially with refrigerant change phase, latent heat are lost when gas turns to liquid. In order to make full use of heat dissipation, refrigerant flow layout is maneuvered into 2 to 1. Refrigerant Flow Path extends liquid refrigerant's occupancy and eventually improve the efficiency too.

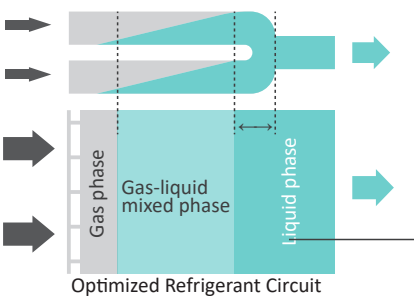
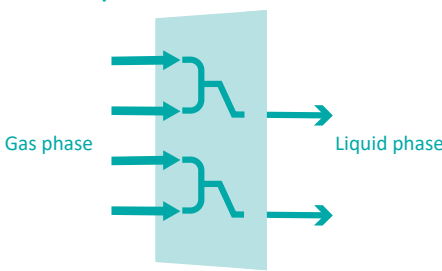
### Conventional technology



Traditional Refrigerant Circuit

Gas Refrigerant    Liquid Refrigerant

### 2-to-1 Refrigerant flow path



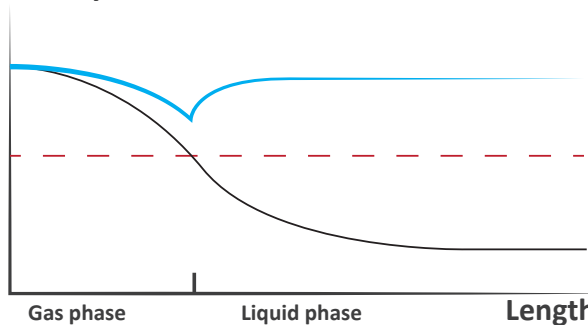
Optimized Refrigerant Circuit

Increase the proportion of liquid refrigerant in the heat exchanger to improve heat transfer efficiency

Gas Refrigerant    Liquid Refrigerant

### Why does 2 to 1 refrigerant circuit is higher in efficiency?

#### Velocity



2 to 1 circuit: velocity is maintained same goes to the efficiency of refrigerant heat exchange.  
Conventional refrigerant circuit: Heat exchange slows down with decreased velocity. Efficiency is greatly reduced.

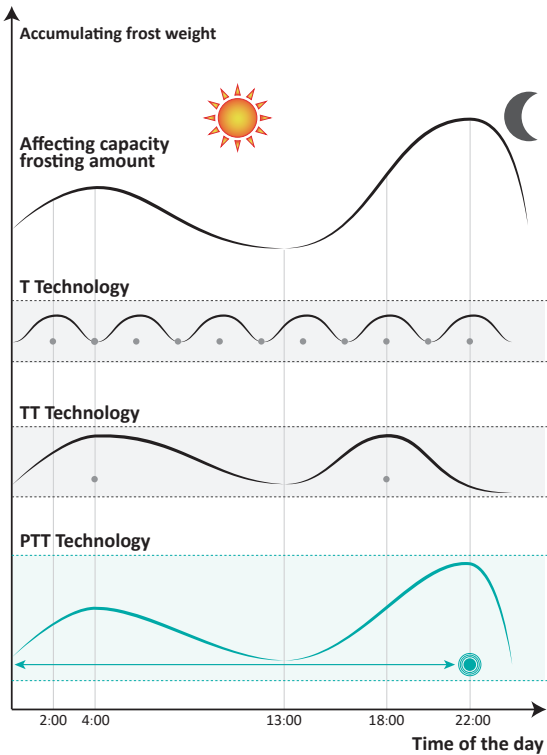




# Intelligent Defrosting

PTT

PTT defrosting mode



During freezing days with low temperature and high humidity, water vapour in the air would solidifies into frost and objects under such environment would accumulate frost. As frosts pile up on the heat exchanger of an outdoor unit, it needs to be liquified and removed. The PTT Intelligent Defrosting Logic could determine the perfect timing to defrost, saving unnecessary energy usage comparing to conventional defrost measures, maximizing users' comfort indoors.

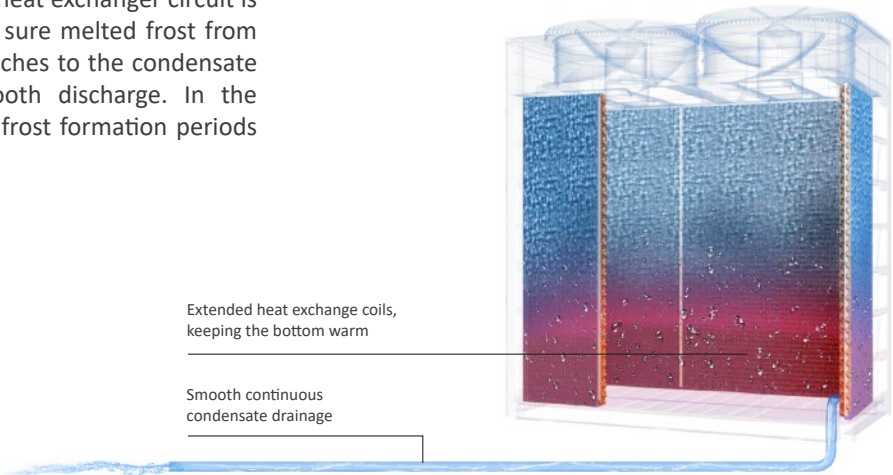
**Defrosting timer**  
High energy wastage and causing low indoor comfort

**Time & temperature**  
Energy wastage and might not defrosting at accurate time

**Defrosting only when necessary**  
High energy saving and efficient use of energy

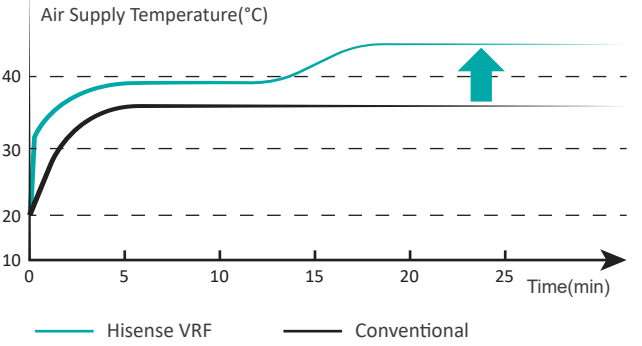
Bottom anti-frosting structure

To ensure effective frost removal, heat exchanger circuit is extended to the bottom to make sure melted frost from the top does not solidify, as it reaches to the condensate drain and hence enhances smooth discharge. In the meantime, the heat also extends frost formation periods whereby prolongs defrost interval.



# 90s Rapid Start-up

To keep comfort as fast as possible in the freezing frosty days, Hisense VRF starts supplying warm air so rapidly with only just 90s reaching a 100% capacity output. Besides, even in the extreme weather condition of -15°C outdoor temperature, Hisense VRF performance is tested with persisting capability to supply 40°C or higher warm air within 7 minutes.

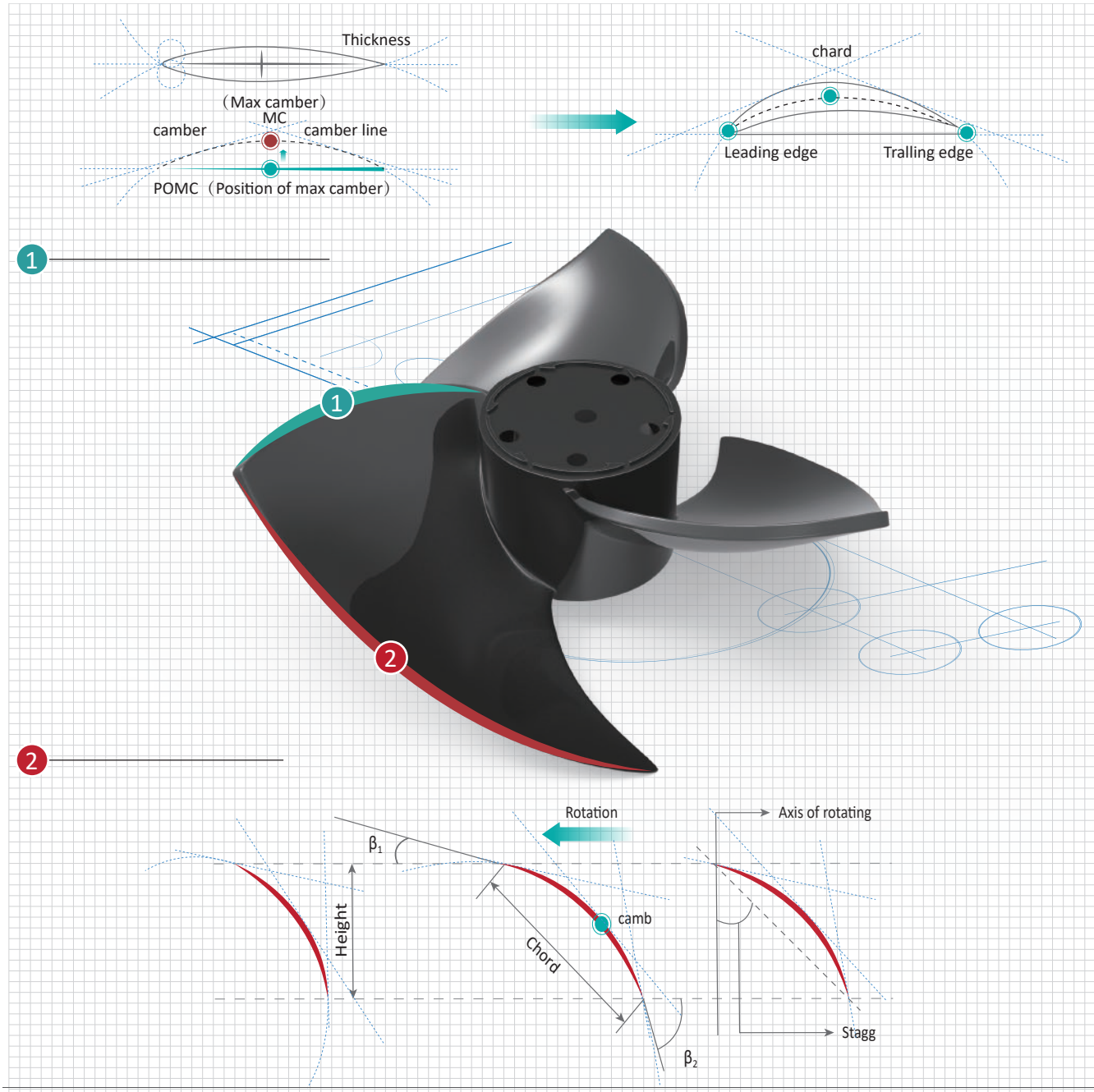


# Steady Air Discharge

## High efficiency aerodynamic axial fan

The propeller bearing which acts as the joint connecting the propeller and motor are specially treated with anti-rain corrosion treatment. The propeller is now made of fiber glass composite to resist corrosion better, and have better durability and approximately 60% lighter in weight than to conventional metal propellers. Fan blades are aerodynamically designed to reduce

energy wastage in converting power consumed to unnecessary noise energy, reserving the energy to improve on flowrate performance and static pressure. Integration with brushless DC fan motor further improves the efficiency and noise of the propeller structure.



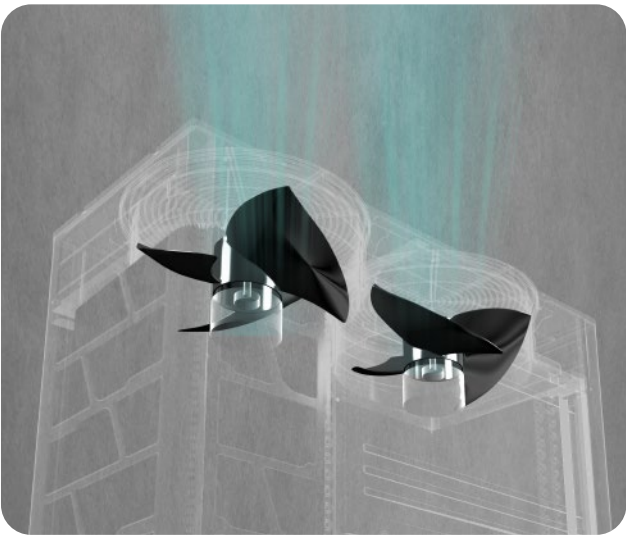
# Steady Air Discharge

## Stepless-smooth fan speed control

Inverter fan motors are now commonly used, where efficiency increase by 40%. Whereas in Hisense VRF, brushless DC fan motors are used, as it could further reduces power consumption and noise production than normal inverter motors.

### Bell shroud

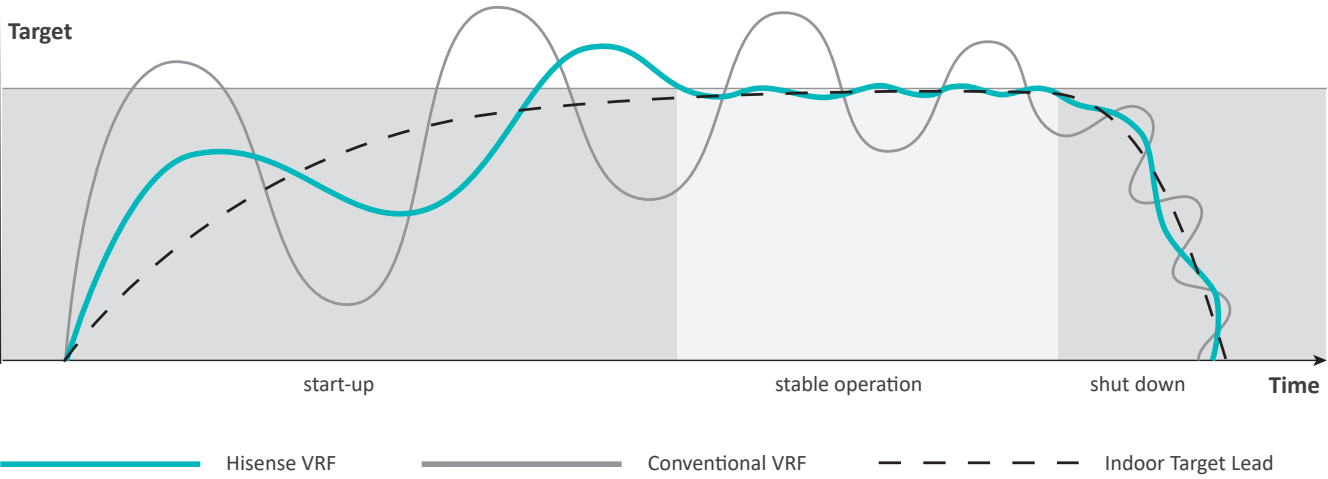
As a smooth tunnel, the bell mouth of the propeller discharge out a more stable air current, creating further and quieter air discharge.



## High Precision Automatic Capacity Output

Besides having a high quality powerful compressor, a precise compressor control is extremely crucial in keeping system operating in optimum efficiency. The 180° Sine Wave DC Variable Speed Drive is now a common way to control HVAC compressors, but what makes Hisense VRF stands out is the calculation algorithm we adopt in all our

inverters, called Hybrid sensorless are now having 50% faster feedback and response time than our previous models. This new algorithm also improved compressor's stability and control precision by 52%, improving capacity output precision, closer to actual load requirement automatically and reduce unnecessary energy wastage.







# COMFORT

*AIR  
CONDITIONING  
SOLUTION*

Auto Refrigerant  
Temperature Control

Smart Air Supply

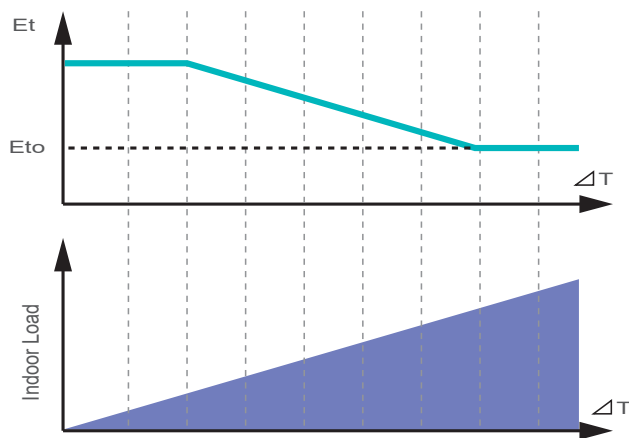
Lower Noise

Clean Fresh Air

# Temperature Control

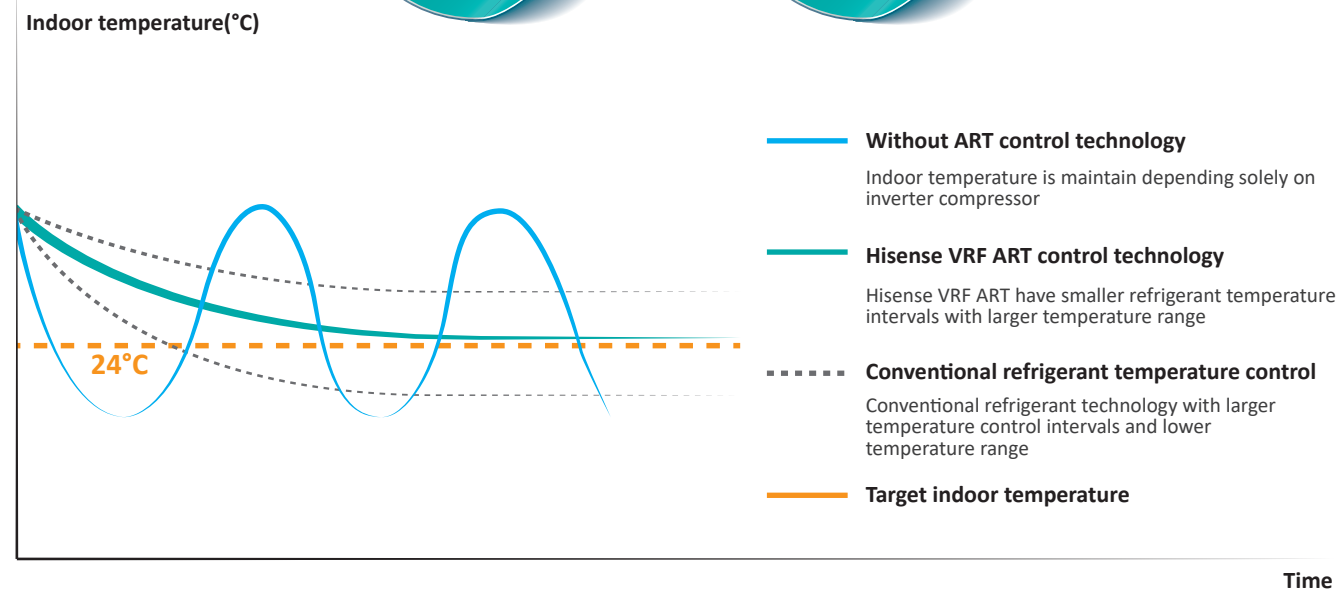
## Auto refrigerant temperature control

Energy-efficient operation and comfortable environment can be provided to users simultaneously by adopting the variable refrigerant temperature technology. The evaporating temperature value can be adjusted automatically according to indoor load in a certain range. Hisense VRF has developed a breakthrough with wide refrigerant temperature control range from 2°C~16°C.



40% more energy saving

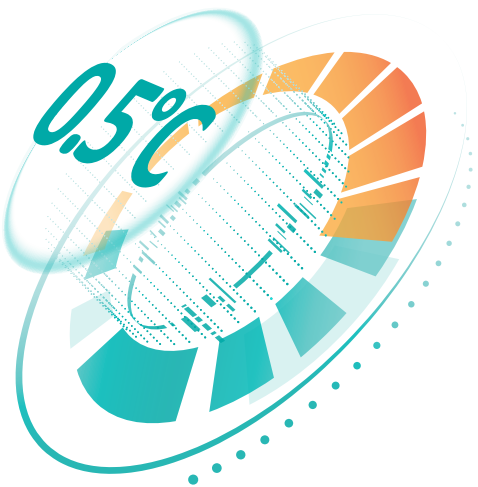
Improving 28% seasonal efficiency



# Temperature Control

## Precise temperature control

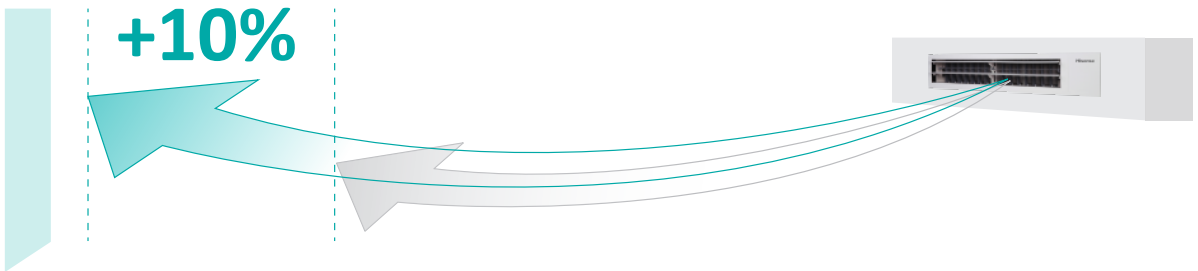
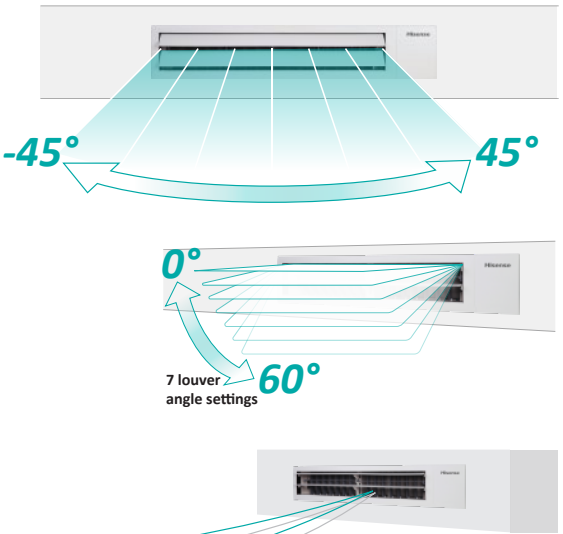
To more precisely supplying air temperature as close to user's desired setting temperature, conventional inverter air conditioning units fluctuates between  $\pm 2^{\circ}\text{C}$  whereby enables effective rapid cooling but also reduces it's temperature maintaining ability. User's optimum desired temperature might be 24°C but constantly fluctuates between 25°C and 26°C. Hence, Hisense VRF provides very close tolerance of temperature in the range of  $\pm 0.5^{\circ}\text{C}$ , reduces temperature fluctuation and effectively maintains the desired temperature.  $\pm 0.5^{\circ}\text{C}$  tolerance is made true by high quality and high precision 2000 steps electronic expansion valve (EEV) used to control refrigerant flow more precisely depending on the real-time room temperature feedbacks from temperature sensors on controllers and indoor units.



## Smart Air Supply

### 3D air-flow panel

The panel is an optional accessories for AC and DC low height ducted unit. By using Hisense's luxurious looking, smooth, easy and clean 3D air-flow panel, it saves the hassle in buying normal louvers . It has LED temperature and humidity level display which is perfect for hotel applications. It also has selectable wind setings from normal, 3D and super long distance modes, cool or warm air flows out from the panel according to the wide horizontal and vertical louvers with 7 options.





# Agile Air Supply

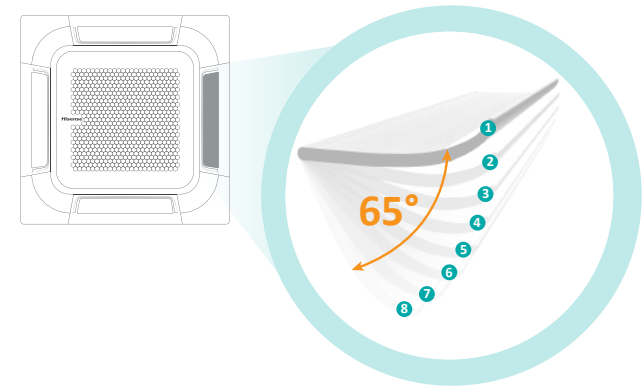
## Micro-holes and breeze mode

Different regions and country have different preference and personal viewpoint of comfort. Some may prefer cool chilly air from AC unit to cool down the room without wind gushes directly towards their faces or bodies. Hisense VRF's new 4-way Cassettes are now designed with micro-holes on every corners on the panels making full use of the whole panel to cool down spaces evenly.



## Individual louver control

4-way cassettes louvers are now capable of individual control to freely choose how you want your AC unit supplies air according to different needs, applications and installation layout. Each louvers have 8 angle settings and maximum angle reach at 65°.

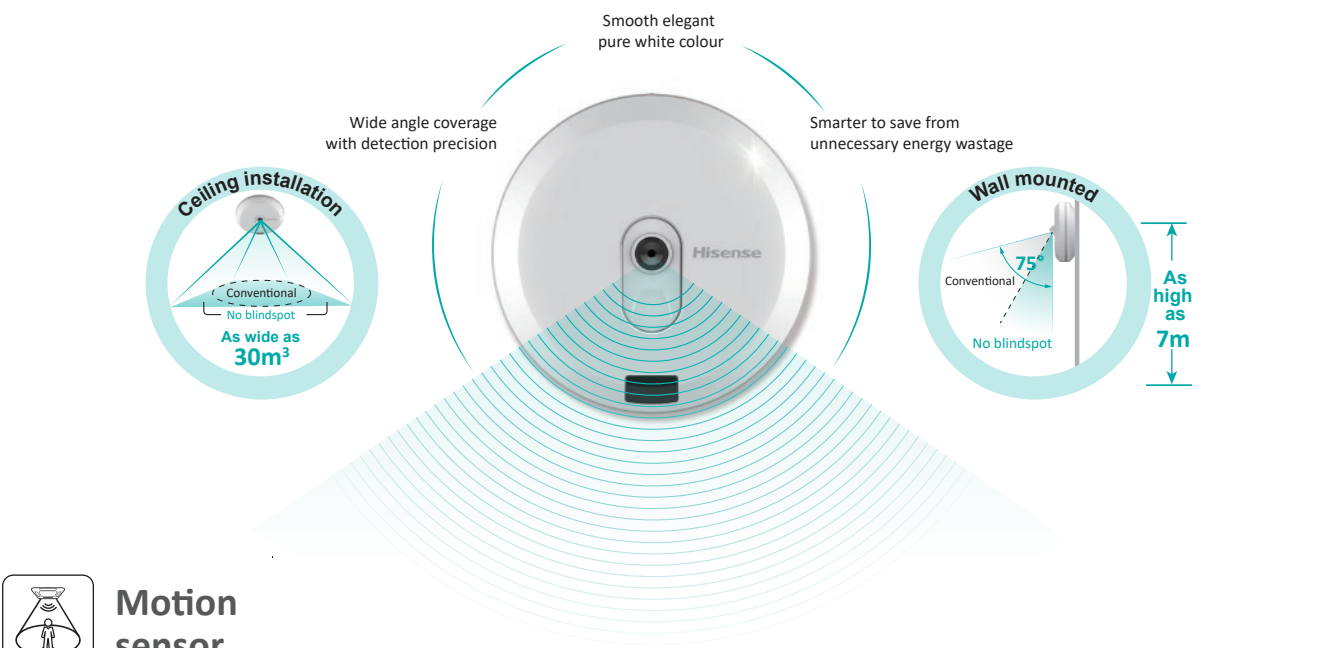


# Agile Air Supply

## Hi-Motion

With fashion appearance, Hi-Motion can provide not only comfortable environment but also energy-efficient operation.  
1)Automatically stops the unit when no one is in the room in order to realize energy saving.

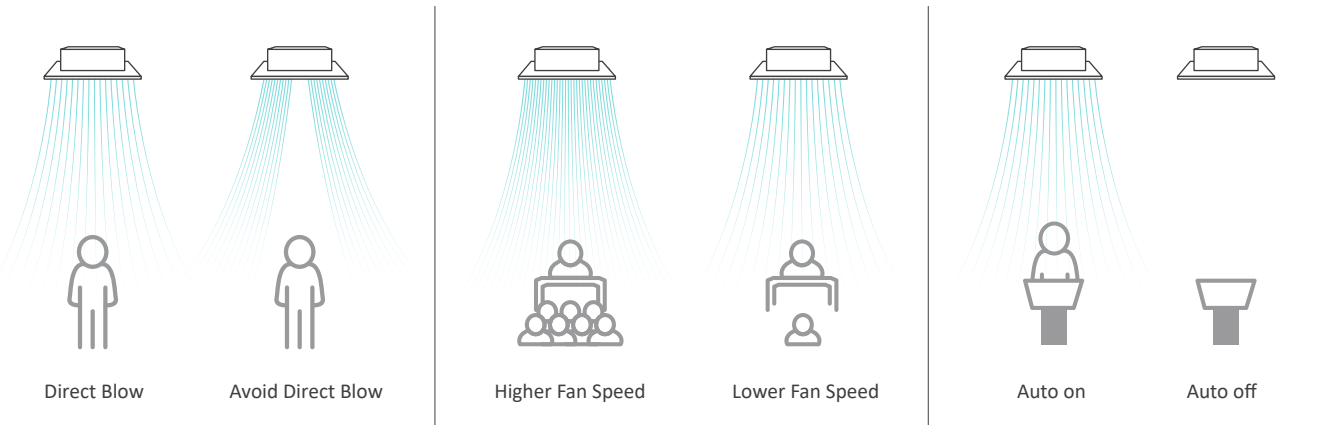
2)Adjusting the setting temperature and air flow according to the actual human activity. Since both wall mounted and ceiling mounted installations are suitable for Hi-motion, which is more convenient for different installation requirement.



## Motion sensor

Motion Sensor can provide a more comfortable environment, and achieve efficient and energy-saving operation of the unit at the same time.  
1) With the sensor, indoor unit can ON or OFF automatically when people enter or leave the room.

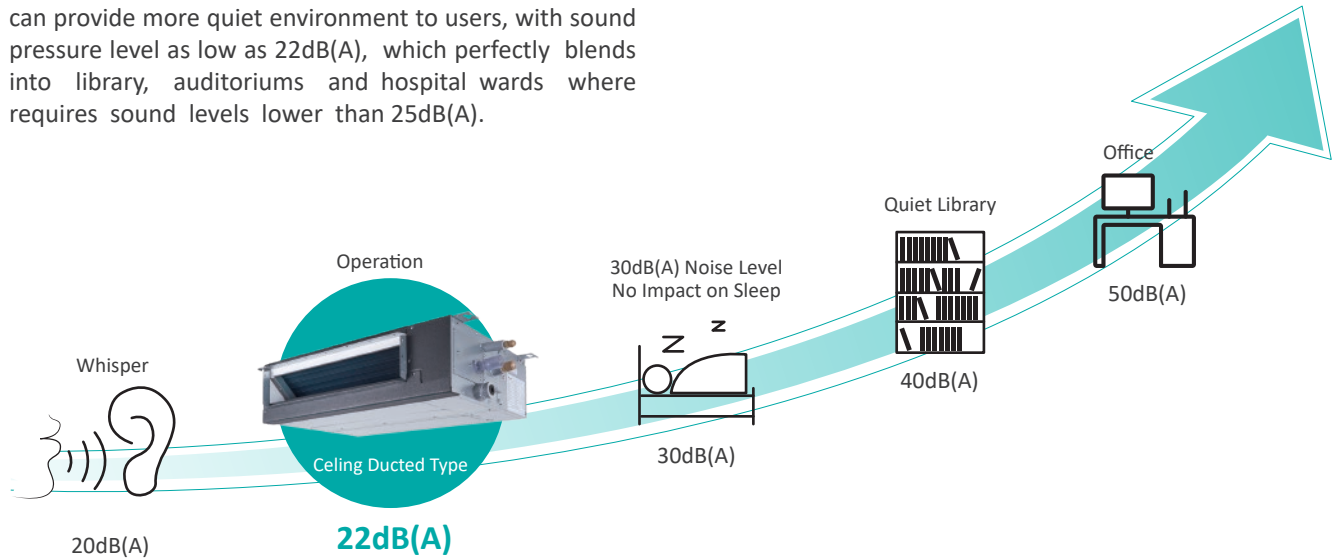
2) The location of people can be detected by sensor. Then the direction of the airflow can be set, to avoid people or blow directly at people.  
3)With detect the number of people changes, the setting temperature is automatically changed .



# Lower Noise

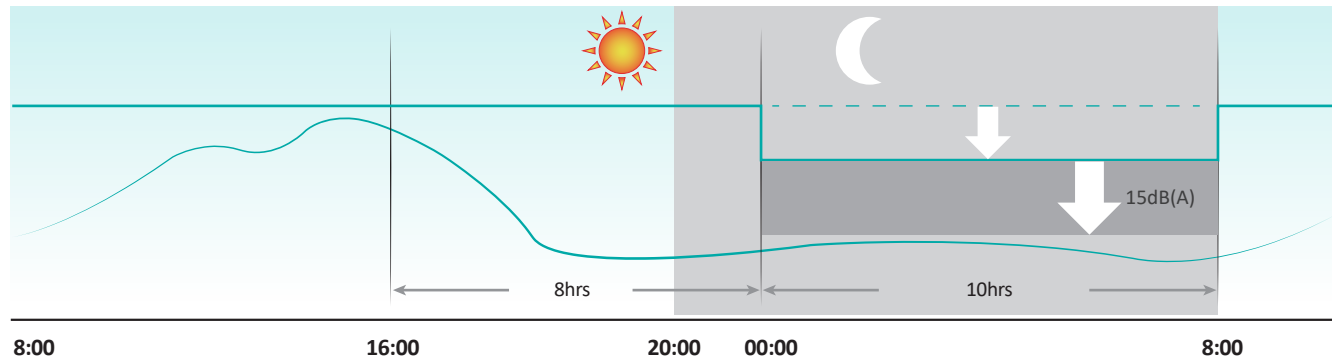
## Low noise for indoor units

Noises are often a pain in the neck. Hisense indoor units can provide more quiet environment to users, with sound pressure level as low as 22dB(A), which perfectly blends into library, auditoriums and hospital wards where requires sound levels lower than 25dB(A).



## Night mode

In general, people are more sensitive to noise at night. To provide more quiet environment, Hisense night mode function can be adopted to reduce sound pressure level by up to 15dB.



# Clean Fresh Air

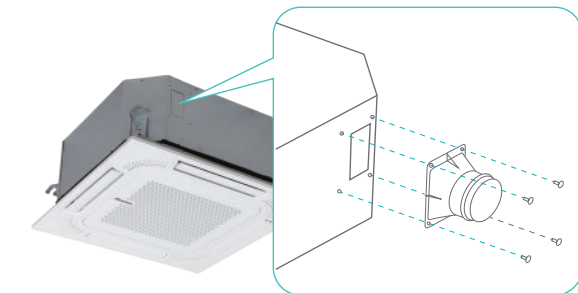
## Humidity sensor (optional)

Automatic dehumidification control can be achieved by choosing humidity sensor. The control humidity range is 35%~90%, and the precision can up to 1%;



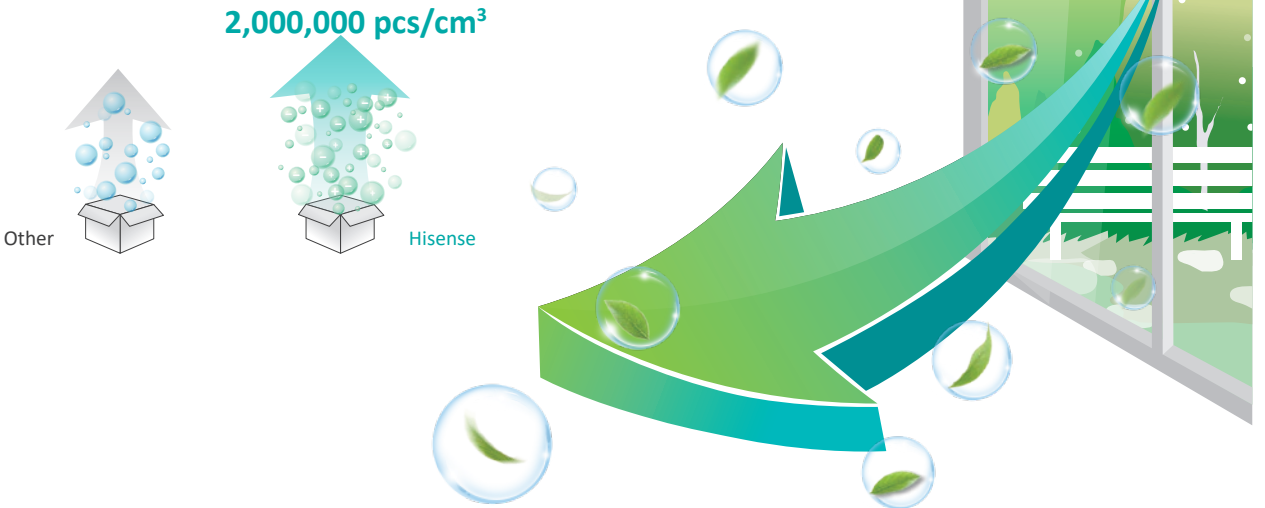
## Fresh air intake (optional)

Fresh Air Intake is an optional accessories to assist 4-way cassette unit to introduce the fresh air to indoor environment, which is easy and convenient for install when there is a fresh air requirement.



## AirPure

To improve air quality and hygienic air supply, 4 way cassette indoor units are applicable to AirPure, an negative ionizer using imported Japan nanotechnology. The anion generator accessory has 50% longer life cycle than conventional devices with a minimum of 10,000 hour anion generation time with the lowest noise production. AirPure emits 2 million pcs/cm<sup>3</sup>, effectively removing odor, airborne viruses allergens and bacteria inactivation so much more effective. Negative ions in the air are proven by many studies in improving one's emotion, health and skin condition





# AIR CONDITIONING SOLUTION

Design Flexibility

Installation Convenience

Service & Maintenance  
Simplicity

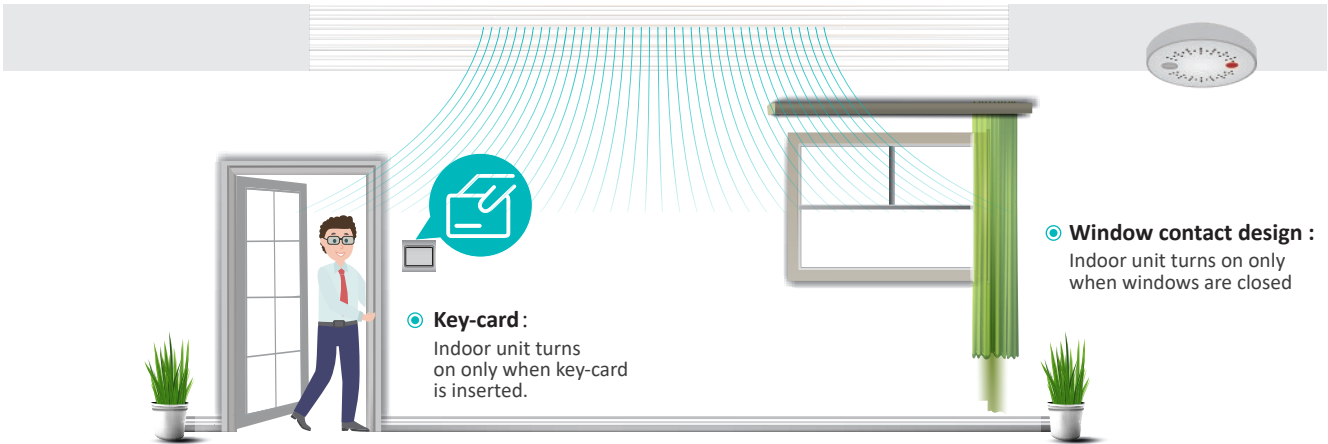
# FLEXIBILITY



# Design Flexibility

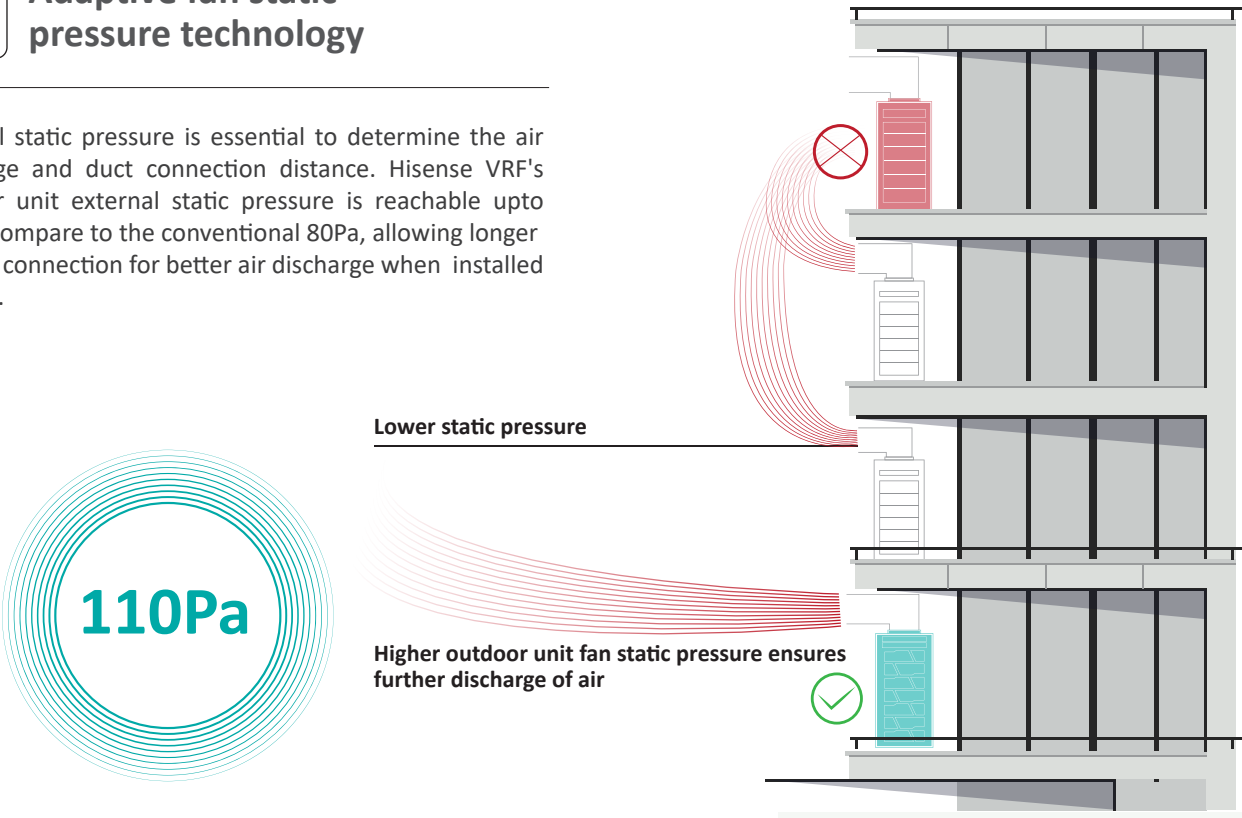
## Indoor unit dry contact interface

In the indoor unit, ports are reserved for wider choice range of applications to turn the AC unit ON or OFF, like key-card power, window contact power and any other third party sensors or devices.



## Adaptive fan static pressure technology

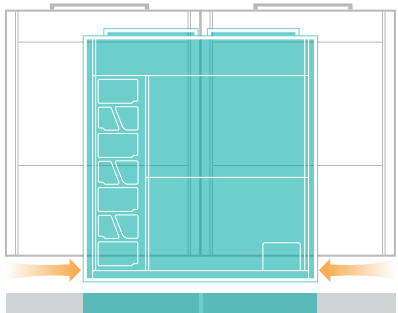
External static pressure is essential to determine the air discharge and duct connection distance. Hisense VRF's outdoor unit external static pressure is reachable upto 110Pa compare to the conventional 80Pa, allowing longer ducting connection for better air discharge when installed indoors.



# Design Flexibility

## Larger capacity, minimizing footprint area

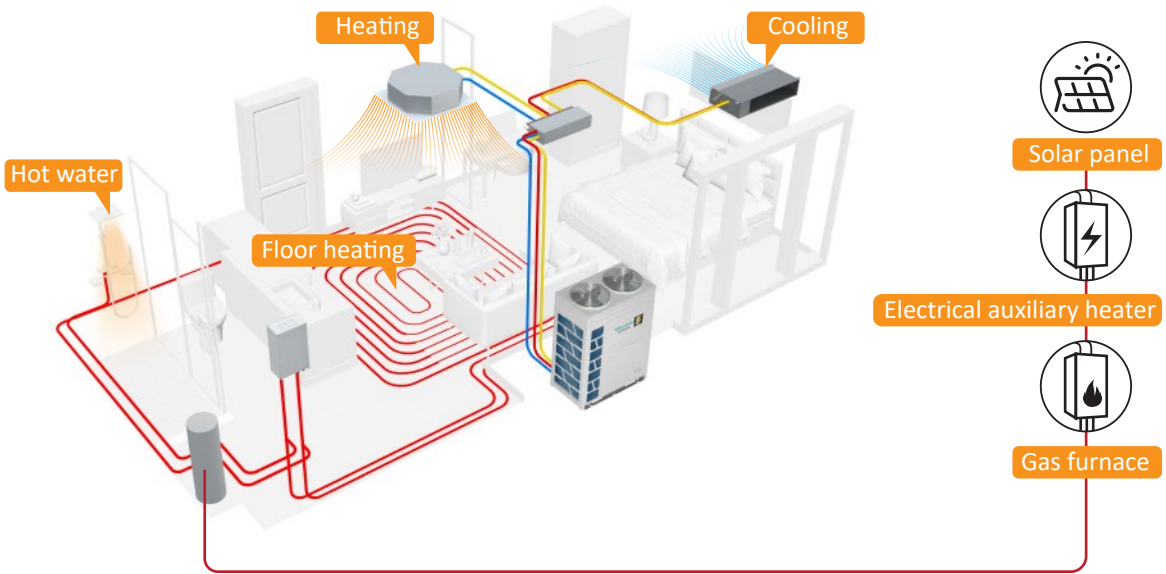
Hisense VRF outdoor units now possess larger capacity per single module unit. Reducing the installation floor space significantly also eliminates the necessity of modules for bigger capacity. Despite the beneficial space saving properties, same goes to the unit's weight per capacity too. Hence, it brings more design and installation flexibility even in limited spaces.



## All in one energy solution and application

Hisense VRF Heat recovery series offers an ultimate solution to satisfy heating and cooling through AHU or fan coil units, domestic hot water supply, floor/wall/ceiling cooling and heating simultaneously. The heat recovery system is also compatible with any auxiliary heaters like solar panels, electric

heater and gas boilers to supply additional energy to the system in unfavorable conditions and climates. The heat recovery series is best suited for residential, hotel, gymnasium and spa applications.

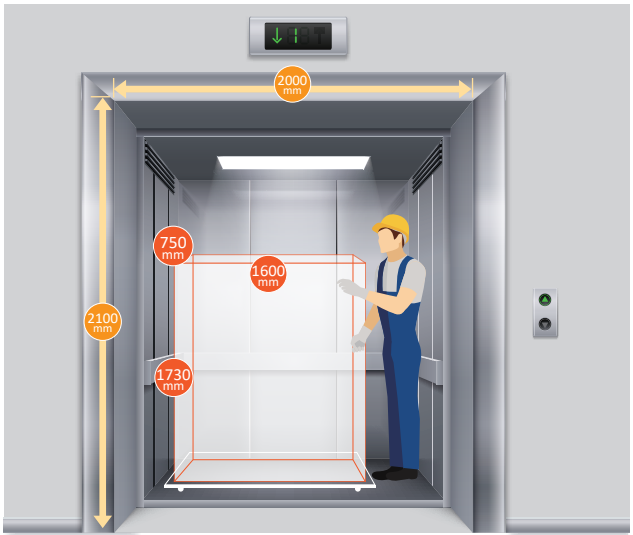




# Installation Convenience

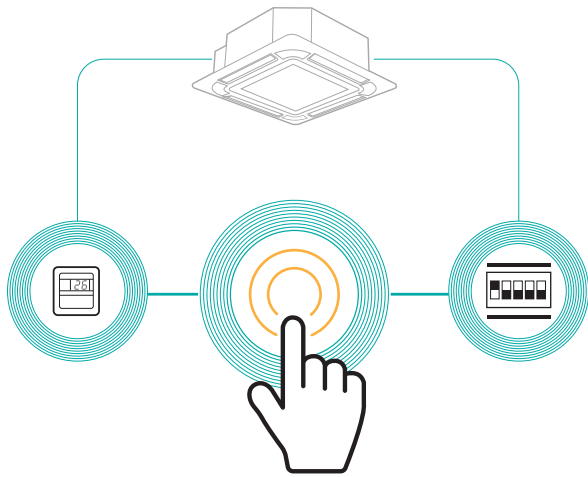
## Compact and light-weight

With compact and light weight structure, the maximum capacity of Hisense VRF ODU can up to 28HP, which can realize more convenient transportation and installation. The size of ODU is suitable to carry for general elevators , so that it can save the cost of transportation and simplify the installation process.



## One-touch test run

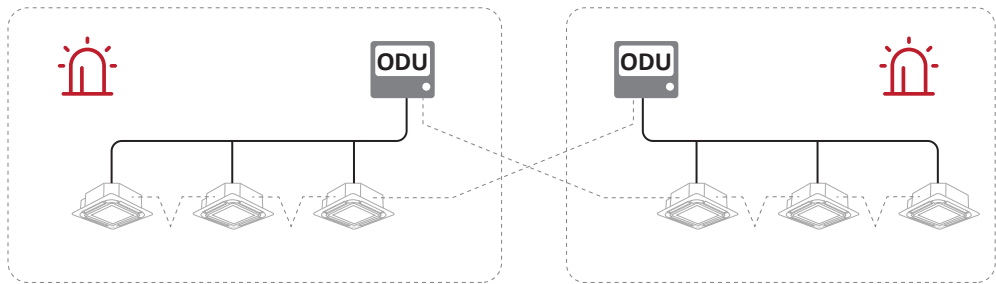
Test runs are one of the essential part in testing & commissioning to make sure the HVAC system in a building works steadily and safely before hand over or soft openings. To make test run as simple as possible, Hisense VRF systems are capable to conduct test runs with just a button away wherever installers are, one-touch test run functions are applicable in both outdoor and indoor units.



## Mistake-free communication connection

Communication line connections between outdoor unit to indoor units might be confusing when comes to long cables from the outdoors to the indoors and vise versa. It is often incorrectly connected and cause various errors. Despite of

Hisense VRF's simple wiring connection ports, the outdoor unit itself could also check on the connections and display warnings when the connections are incorrect.



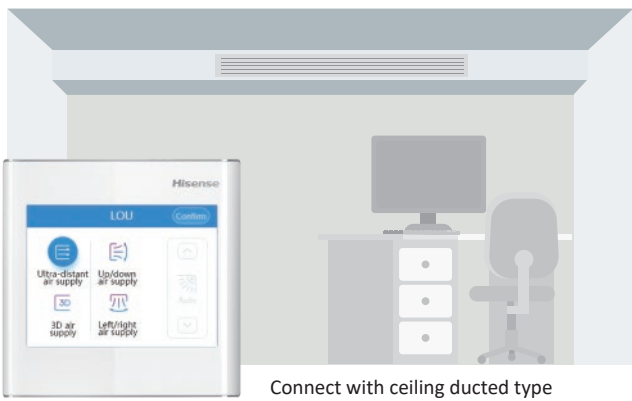
Indoor units from different systems are connected to the incorrect outdoor unit, alarm codes flashes out warning installers to make proper corrections.

# Installation Convenience

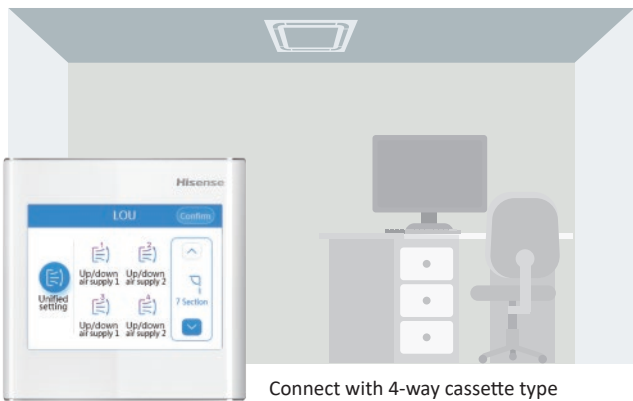
## AUTO Intelligent matching IDUs

According to the different functions of different indoor units, Hisense controller can intelligently match the indoor units. For example, If air deflector of the IDU can be

controlled independently, the relative button of wired controller will be available. On the contrary, the button will be dim and unavailable.



Connect with ceiling ducted type

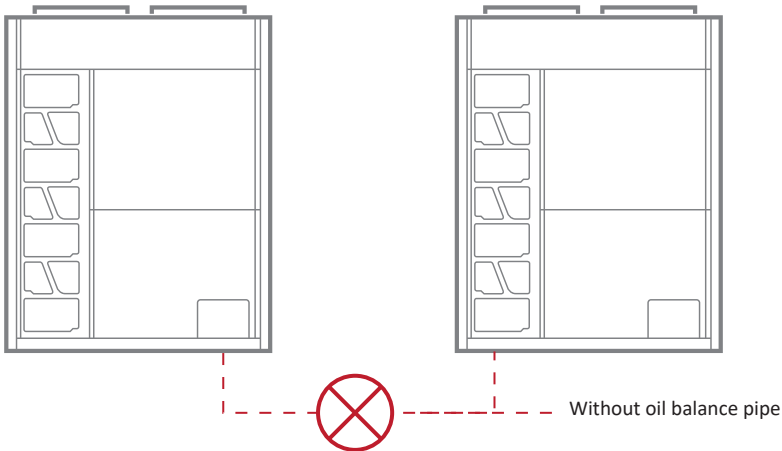


Connect with 4-way cassette type

## No oil balance pipes required

With effective and prominent oil return technology, perfect oil balance is achieved by the integration of the pore tube technology in the accumulator. It serves as an oil

storage tank and provide the right volume of oil to the compressor at the right time. Hence the oil balance pipes are unnecessary which is more convenient to install.

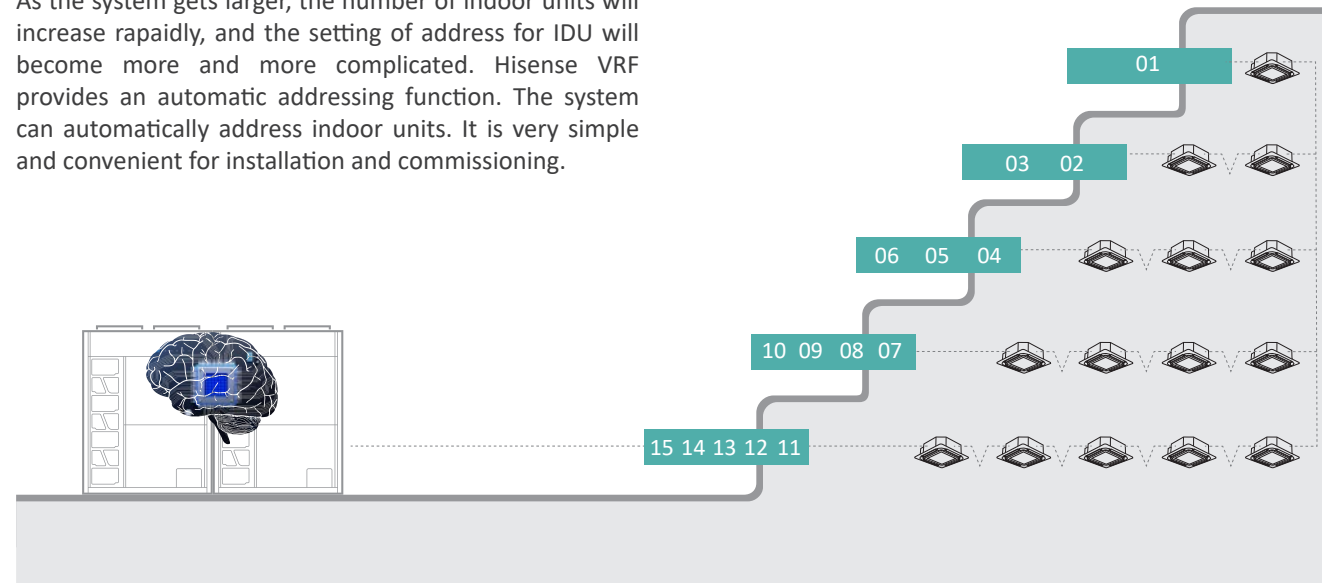


## Service & Maintenance



### Automatically addressing

As the system gets larger, the number of indoor units will increase rapidly, and the setting of address for IDU will become more and more complicated. Hisense VRF provides an automatic addressing function. The system can automatically address indoor units. It is very simple and convenient for installation and commissioning.



### Safe and convenient system management

The new outdoor units are equipped with a service window on top of the electrical box protection panel, to help easily access to parameters check and maintenance manipulation safely without exposing to high voltage segments of the electric box. With the new service windows, press switch buttons, DIP switches and the 7 segment LED operation are safer and more convenient to operate.



### Automatic restart

Hisense VRF is capable to restart automatically whenever there is an involuntary power supply shortage. Customers are free to choose from restoring to it to the state before power failure state or restarting the system completely. Such function comes in handy in equipment rooms whereby are constantly humanless, like genset rooms or server rooms.



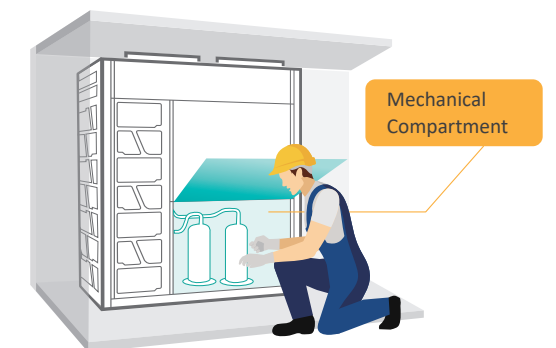
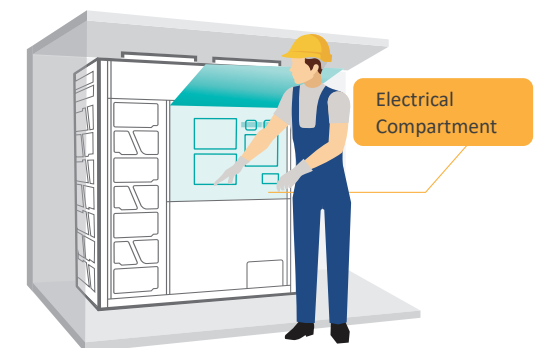
## Service & Maintenance Simplicity



### Separated mechanical & electrical segments

The outdoor unit's mechanical and electrical segments is now designed and optimized repositioned separately for a more organized maintenance. The electrical and electronics are placed on top of the compressors and accumulator to meet the practical law of center of gravity, hence

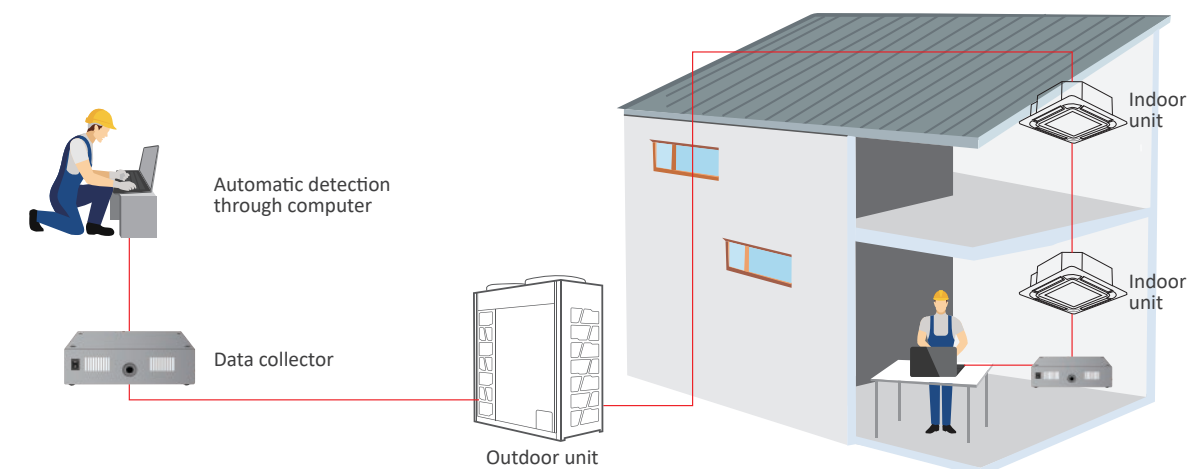
minimizing toppling accidents and unnecessary vibration produced during operation. Besides, it also maximizes the heat dissipation of electrical box to keep the electrical in a stable temperature by maximizing airflow passed by.



### Accurate intelligent system diagnosis

Exclusive Hisense Data Collector is a super service maintenance tool for system diagnosis. Connected with the system, it can display the real-time data of system to service engineer, which is critical for commissioning and

troubleshooting. It is available for all Hisense VRF products, which is more convenient for installer to have one data collector to check all products.







AIR  
CONDITIONING  
SOLUTION

OUTDOOR  
UNIT

HP	3	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
Hi-FLEXi S Series																						
Hi-FLEXi W Series																						
Hi-SMART H Series																						

44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88





# Hi-FLEXi S Series

The S Series can make full use of energy to realize cooling and heating simultaneously in heat recovery mode and also can be used as two-pipe systems. Water module is available to be connected in refrigerant system which can support floor heating & DHW & fan coil & radiator to provide more comfortable environment.

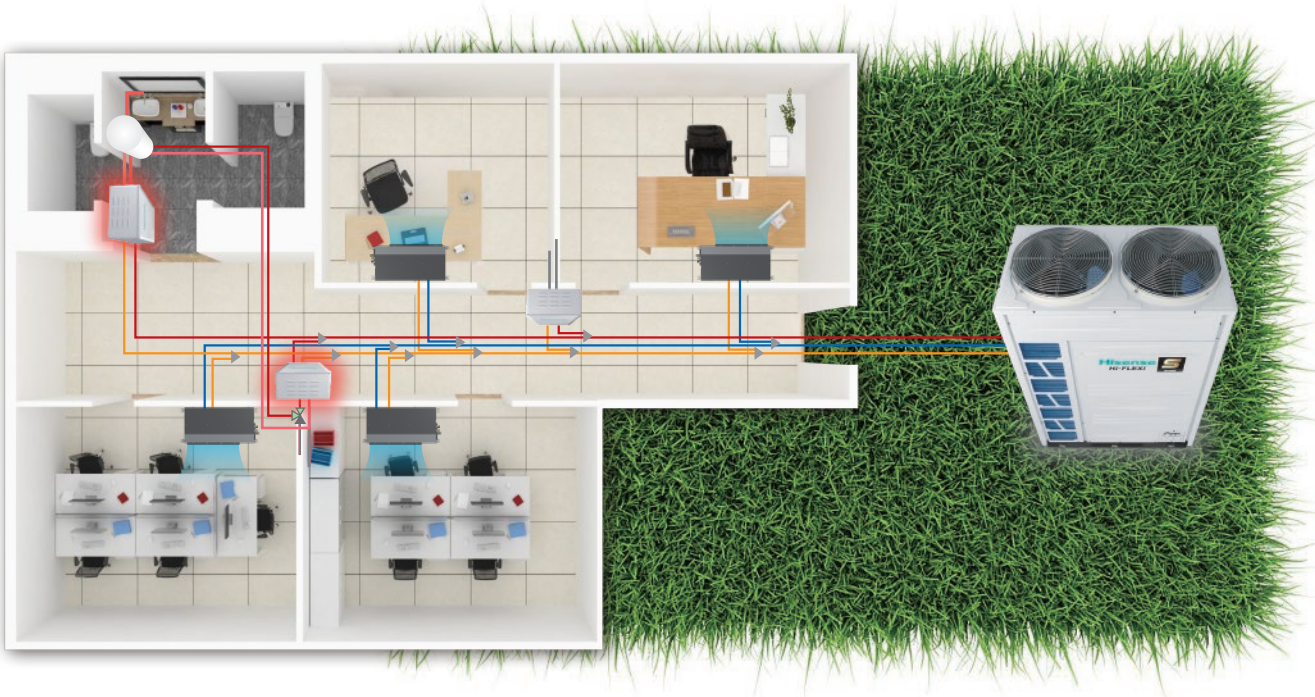
- Excellent design in VRF
- Wide operating range, precise temperature control
- New generation of vapor injection technology

# Hi-FLEXi S Series

## Applications of heat pump



## Applications of heat recovery



Note: The 3-pipe system can be used with or without SW-BOX. The picture above only shows the case without SW-box.

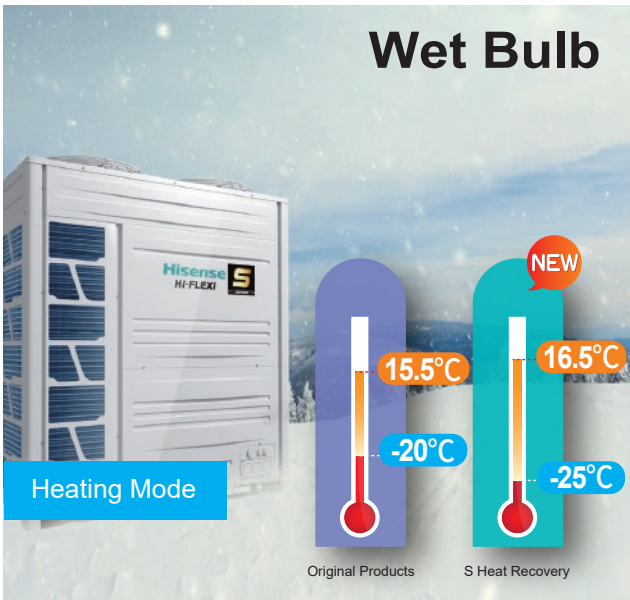


# Hi-FLEXi S Series

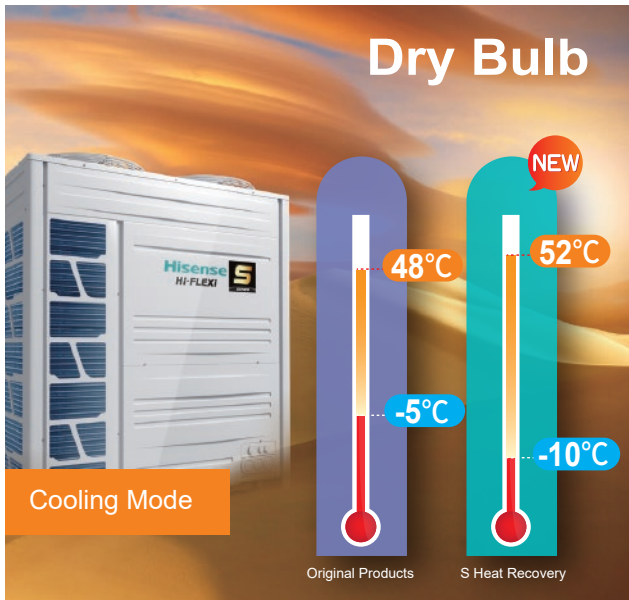
## Wide operating range meets greater demand

With wide operating temperature range, it is available to adapt to the different requirements of different environments. In heating mode, the machine can operate at

lower ambient temperatures, down to -25°C. In cooling mode, the machine can operate at higher ambient temperatures, up to 52°C.



Note: In heating mode, the temperature range of dry bulb is -25°C to 26°C.



## VIP mode

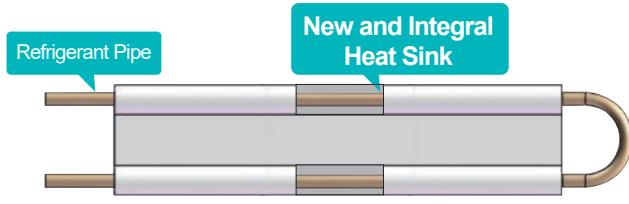
Hisense VRF offers VIP mode to give priority to the specific room, ensuring the AC requirements can be met with priority. Maximum 5 indoor units can be set as VIP mode at the same time. Such function is exclusively practical for hotel application, where AC unit in the presidential suite is often need to set to VIP.



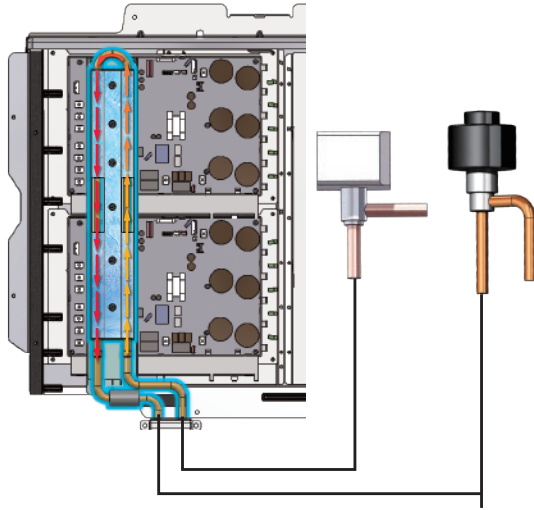
# Hi-FLEXi S Series

## 360° fitted refrigerant cooling technology

With the 360° refrigerant cooling technology, Hi-FLEXi S Series will remove the heat from the main PCB, making inverter module and electrical box stable and efficiency. New and integral heat sink can help to improve the electrical reliability of the unit when it is running under high ambient temperature.

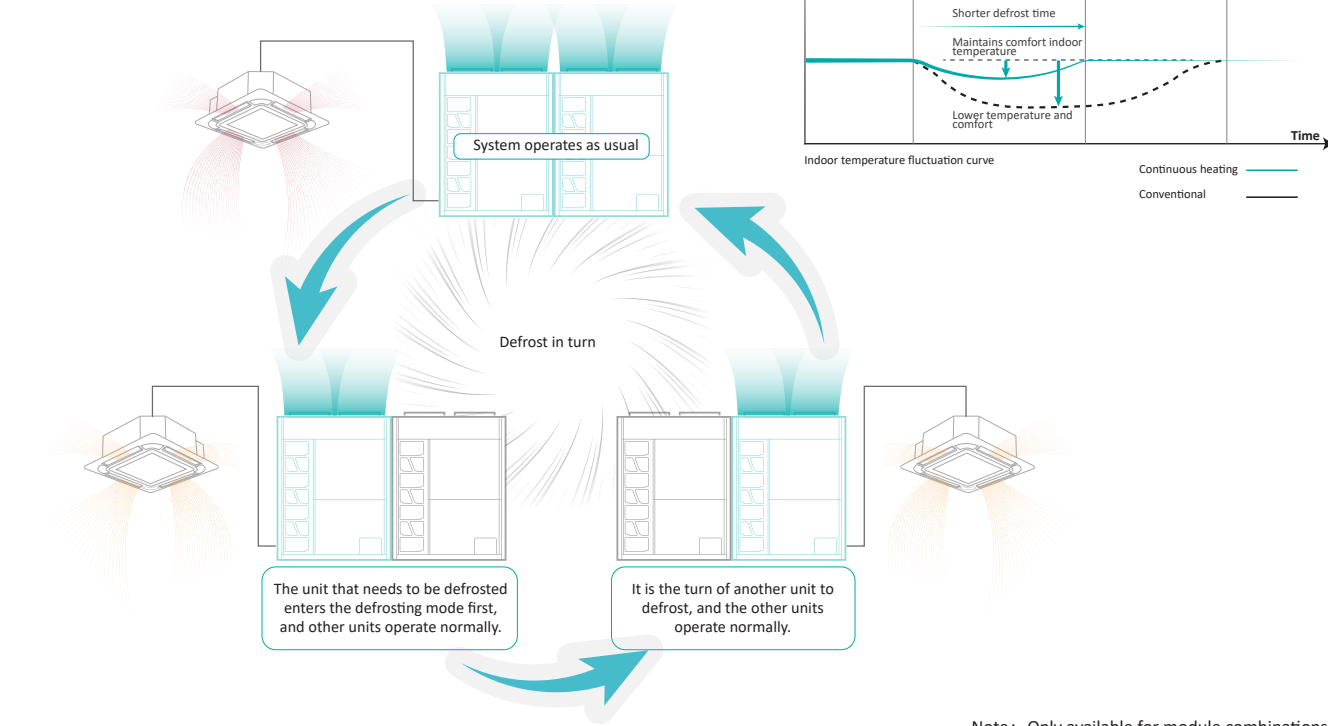


The new electronic expansion valve and solenoid valve are more precise to control temperature of PCB, preventing the temperature from becoming too high or too low, making it stable to operate.



## Continuous heating during defrost

In winter, our products can achieve continuous heating by rotational defrost, providing with a more comfortable and warmer indoor environment.

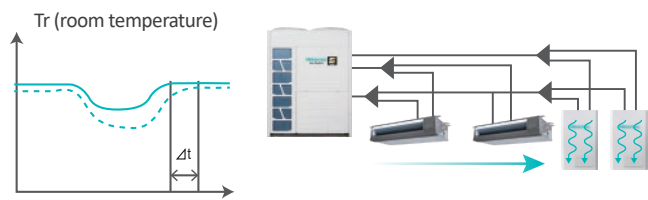


Note: Only available for module combinations

# Hi-FLEXi S Series

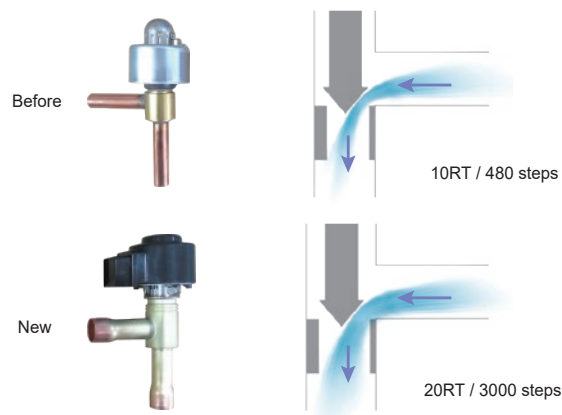
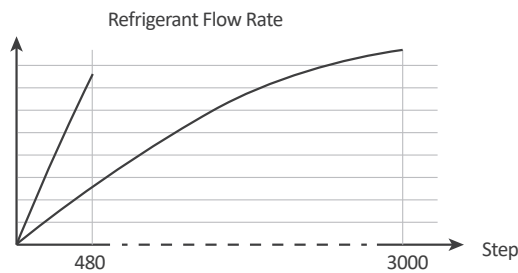
## Hydro box defrost

Hi-FLEXi S Series can choose hydro box defrost. There is no doubt that room temperature will be less fluctuation to keep comfort.



## Dual 20RT EEV

Compared with conventional 10RT EEV with 480 steps, dual 20RT EEV with 3000pls can better reduce pressure loss and improve performance.

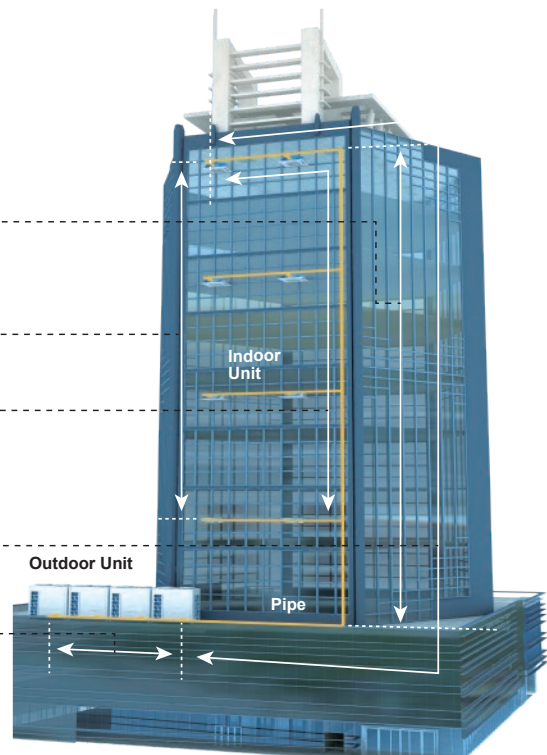


## Flexible long piping design

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

- Maximum height difference between indoor and outdoor units:  
when the outdoor unit is above: 90m\*(50m)  
when the outdoor unit is below: 90m\*(40m)
- Maximum height difference of indoor units: 30m\*(15m)
- Maximum length from the first branch pipe to the farthest indoor unit: 90m
- Maximum length of a single pipe: 190 meters  
Total length of pipes: 1000 meters
- Largest pipe length between outdoor units: 10 meters

\*Note: For detailed information, please contact Hisense's technical engineers.



# Hi-FLEXi S Series

## High match ratio of ODU and IDUs

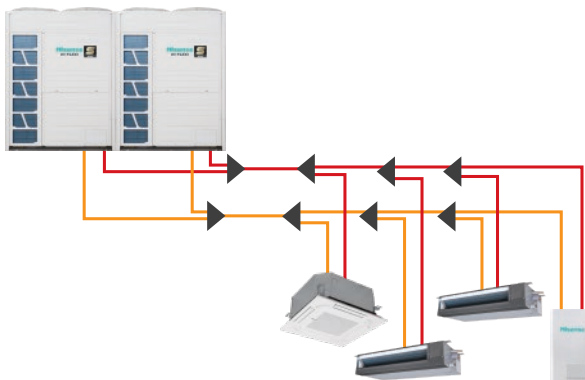
Hi-FLEXi S Series can realize that the match ratio of ODU and IDUs is 50%~150%(200%)\*

Note: If some applications require match ratio up to 200%, please contact with our professional engineer.



## Flexible connection to hydro box

The Hydro Box can be used in both two-pipe and three-pipe systems to provide cold or hot water.



## Energy saving mode

The intelligent demand mode can adjust the air conditioning automatically according to peak-valley requirements of electricity. It achieves balance between comfort and

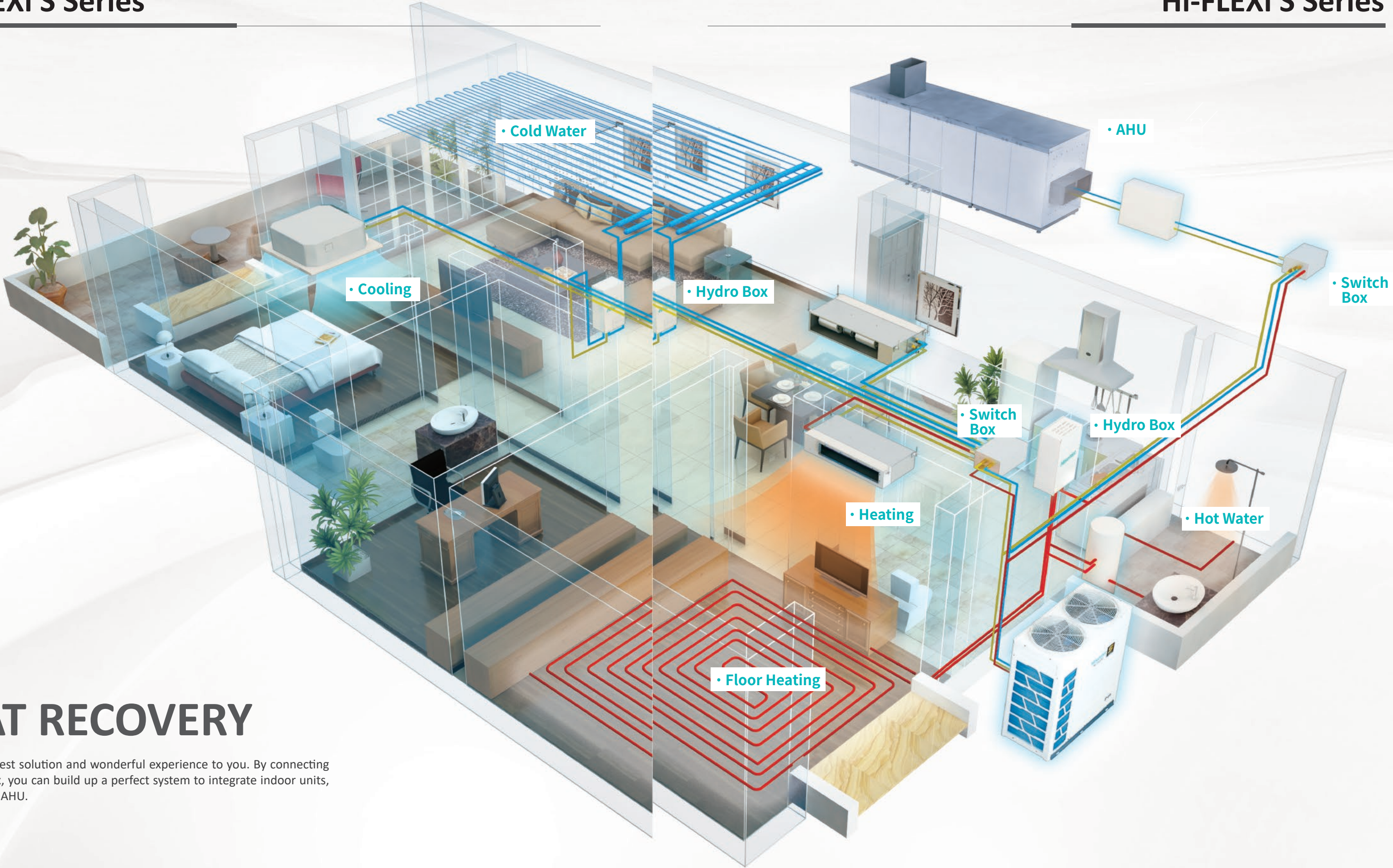
energy-saving while meeting the power demand for daily work.





# Hi-FLEXi S Series

# Hi-FLEXi S Series



## HEAT RECOVERY

Provides the best solution and wonderful experience to you. By connecting the Switch Box, you can build up a perfect system to integrate indoor units, hydro box and AHU.



# Hi-FLEXi S Series

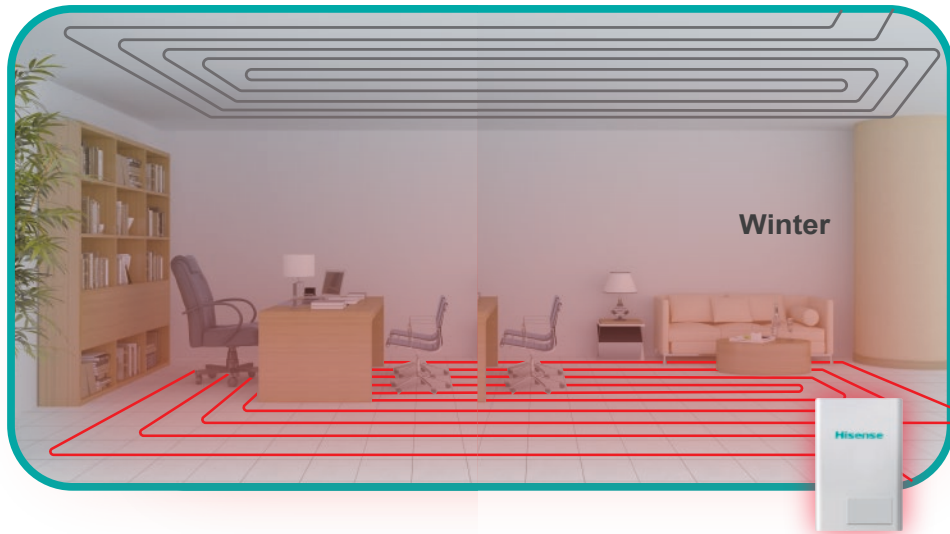
Application case  
Simultaneous Cooling and Heating



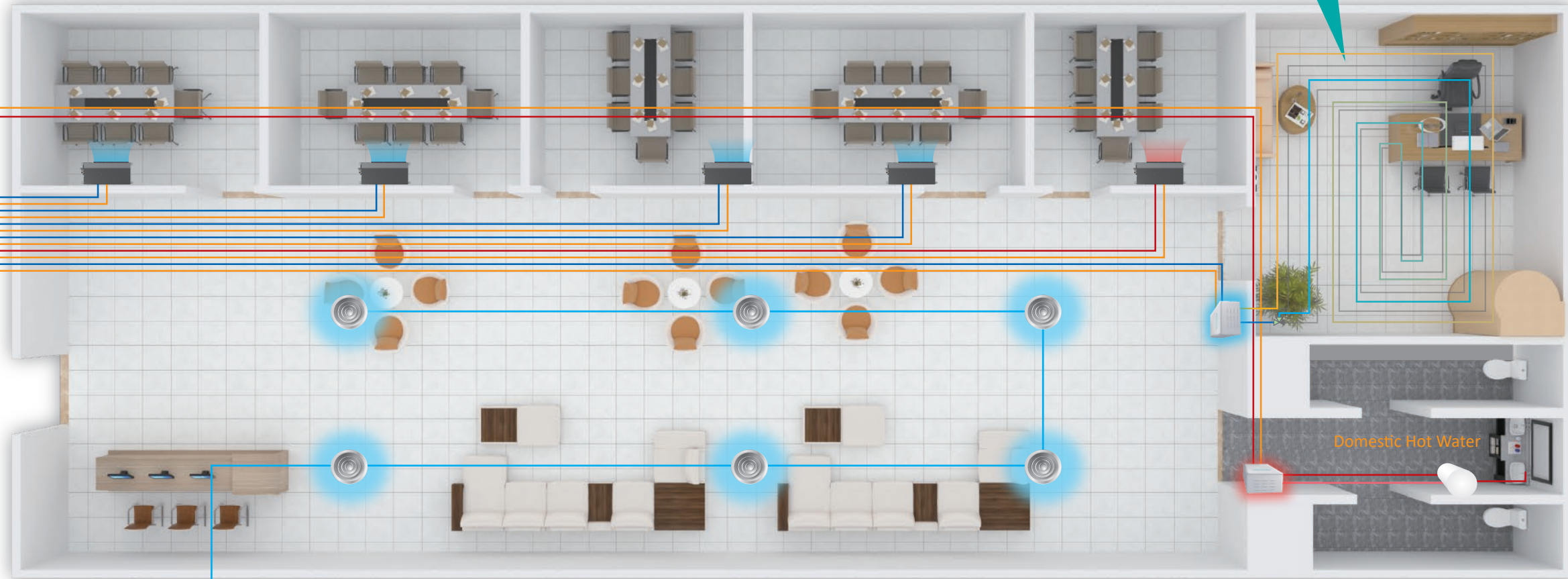
Connect with Switch Box,  
Flexible installation



Floor Heating



Radiant cooling



Connect AHU

Domestic Hot Water



# Hi-FLEXi S Series

## Outdoor unit specifications



Capacity			8HP	10HP	12HP	14HP	16HP	18HP
Model			AVWT-76FKFSHA	AVWT-96FKFSHA	AVWT-114FKFSHA	AVWT-136FKFSHA	AVWT-154FKFSHA	AVWT-170FKFSHA
Combination			AVWT-76FKFSHA	AVWT-96FKFSHA	AVWT-114FKFSHA	AVWT-136FKFSHA	AVWT-154FKFSHA	AVWT-170FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz					
Cooling Operation	Nominal Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0
		kBtu/h	76.4	95.5	114.3	136.5	153.5	170.6
	Power Consumption	kW	4.77	6.67	7.25	8.70	11.22	12.69
		EER	kW/kW	4.70	4.20	4.62	4.60	4.01
Heating Operation	Capacity (Max/Nom)	kW	25.0 / 22.4	31.5 / 28.0	37.5 / 33.5	45.0 / 40.0	50.0 / 45.0	56.0 / 50.0
		kBtu/h	85.3 / 76.4	107.5 / 95.5	128.0 / 114.3	153.5 / 136.5	170.6 / 153.5	191.1 / 170.6
	Power Consumption (Max/Nom)	kW	4.88 / 4.06	6.29 / 5.18	7.50 / 6.20	9.55 / 8.16	11.88 / 10.23	13.97 / 11.88
		COP (Max/Nom)	kW	5.12 / 5.52	5.01 / 5.41	5.00 / 5.40	4.71 / 4.90	4.21 / 4.40
Sound Pressure Level		dB(A)	59	60	62	62	62	62
Outer Dimensions	Height	mm	1730	1730	1730	1730	1730	1730
	Width	mm	950	950	1210	1210	1350	1350
	Depth	mm	750	750	750	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930	1930	1930	1930
	Width	mm	1015	1015	1275	1275	1420	1420
	Depth	mm	790	790	790	790	790	790
Cabinet Color		-	Ivory White					
Net Weight		kg	246	247	290	349	369	377
Gross Weight		kg	266	267	312	371	393	401
Air Flow Rate		m³/min	183	183	200	200	267	296
Refrigerant charge before shipment		kg	6.00	6.00	8.80	9.20	9.80	10.60
Compressor Quantity		-	1	1	1	2	2	2
Condenser Fan Quantity		-	1	1	2	2	2	2
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ19.05 (3/4)	Φ22.20 (7/8)	Φ25.40 (1)	Φ25.40 (1)	Φ28.60 (1-1/8)	Φ28.60 (1-1/8)
	High/Low Pressure Gas Line	mm(in.)	Φ15.88 (5/8)	Φ19.05 (3/4)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ22.2 (7/8)
	Liquid Line	mm(in.)	Φ9.53 (3/8)	Φ9.53 (3/8)	Φ12.70 (1/2)	Φ12.70 (1/2)	Φ12.70 (1/2)	Φ15.88 (5/8)
Heat Pump Operation System	Gas Line	mm(in.)	Φ19.05 (3/4)	Φ22.20 (7/8)	Φ25.40 (1)	Φ25.40 (1)	Φ28.60 (1-1/8)	Φ28.60 (1-1/8)
	Liquid Line	mm(in.)	Φ9.53 (3/8)	Φ9.53 (3/8)	Φ12.70 (1/2)	Φ12.70 (1/2)	Φ12.70 (1/2)	Φ15.88 (5/8)
Operation Range	Cooling	°C DB	-10~52					
	Heating	°C WB	-25~16.5					

### 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.

# Hi-FLEXi S Series



Capacity			20HP	22HP	24HP	26HP	28HP
Model			AVWT-190FKFSHA	AVWT-212FKFSHA	AVWT-228FKFSHA	AVWT-250FKFSHA	AVWT-272FKFSHA
Combination			AVWT-190FKFSHA	AVWT-212FKFSHA	AVWT-114FKFSHA AVWT-114FKFSHA	AVWT-114FKFSHA AVWT-136FKFSHA	AVWT-136FKFSHA AVWT-136FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz				
Cooling Operation	Nominal Capacity	kW	56.0	61.5	67.0	73.5	80.0
		kBtu/h	191.1	209.8	228.6	250.8	273.0
	Power Consumption	kW	14.36	16.62	14.50	15.95	17.39
		EER	kW/kW	3.90	3.70	4.62	4.61
Heating Operation	Capacity (Max/Nom)	kW	63.0 / 56.0	69.0 / 61.5	75.0 / 67.0	82.5 / 73.5	90.0 / 80.0
		kBtu/h	215.0 / 191.1	235.4 / 209.8	255.9 / 228.6	281.5 / 250.8	307.1 / 273.0
	Power Consumption (Max/Nom)	kW	15.75 / 13.40	18.11 / 15.73	15.00 / 12.41	17.04 / 14.33	19.11 / 16.33
	COP (Max/Nom)	kW	4.00 / 4.18	3.81 / 3.91	5.00 / 5.40	4.84 / 5.13	4.71 / 4.90
Sound Pressure Level		dB(A)	63	64	65	65	65
Outer Dimensions	Height	mm	1730	1730	1730	1730	1730
	Width	mm	1600	1600	1210+1210	1210+1210	1210+1210
	Depth	mm	750	750	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930	1930	1930
	Width	mm	1665	1665	1275+1275	1275+1275	1275+1275
	Depth	mm	790	790	790	790	790
Cabinet Color		-	Ivory White				
Net Weight		kg	400	401	290+290	290+349	349+349
Gross Weight		kg	426	427	312+312	312+371	371+371
Air Flow Rate		m³/min	350	350	400	400	400
Refrigerant charge before shipment		kg	11.50	11.50	8.80+8.80	8.80+9.20	9.20+9.20
Compressor Quantity		-	2	2	2	3	4
Condenser Fan Quantity		-	2	2	4	4	4
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ28.60 (1-1/8)	Φ28.60 (1-1/8)	Φ28.60 (1-1/8)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)
	High/Low Pressure Gas Line	mm(in.)	Φ22.2 (7/8)	Φ25.4 (1)	Φ25.4 (1)	Φ25.4 (1)	Φ28.6 (1-1/8)
	Liquid Line	mm(in.)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ19.05 (3/4)	Φ19.05 (3/4)
Heat Pump Operation System	Gas Line	mm(in.)	Φ28.60 (1-1/8)	Φ28.60 (1-1/8)	Φ28.60 (1-1/8)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)
	Liquid Line	mm(in.)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ19.05 (3/4)	Φ19.05 (3/4)
Operation Range	Cooling	°C DB	-10~52				
	Heating	°C WB	-25~16.5				

### 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.

# Hi-FLEXi S Series

## Outdoor unit specifications



Capacity			30HP	32HP	34HP	36HP	38HP
Model			AVWT-290FKFSHA	AVWT-308FKFSHA	AVWT-324FKFSHA	AVWT-340FKFSHA	AVWT-360FKFSHA
Combination			AVWT-136FKFSHA AVWT-154FKFSHA	AVWT-154FKFSHA AVWT-154FKFSHA	AVWT-154FKFSHA AVWT-170FKFSHA	AVWT-170FKFSHA AVWT-170FKFSHA	AVWT-170FKFSHA AVWT-190FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz				
Cooling Operation	Nominal Capacity	kW	85.0	90.0	95.0	100.0	106.0
		kBtu/h	290.0	307.1	324.1	341.2	361.7
	Power Consumption	kW	19.83	22.44	23.91	25.38	27.05
		EER	kW/kW	4.29	4.01	3.97	3.94
Heating Operation	Capacity (Max/Nom)	kW	95.0 / 85.0	100.0 / 90.0	106.0 / 95.0	112.0 / 100.0	119.0 / 106.0
		kBtu/h	324.1 / 290.0	341.2 / 307.1	361.7 / 324.1	382.1 / 341.2	406.0 / 361.7
	Power Consumption (Max/Nom)	kW	21.37 / 18.34	23.75 / 20.45	25.82 / 22.09	27.93 / 23.75	29.71 / 25.27
		COP (Max/Nom)	kW	4.44 / 4.63	4.21 / 4.40	4.11 / 4.30	4.01 / 4.21
Sound Pressure Level		dB(A)	65	65	65	65	66
Outer Dimensions	Height	mm	1730	1730	1730	1730	1730
	Width	mm	1210+1350	1350+1350	1350+1350	1350+1350	1350+1600
	Depth	mm	750	750	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930	1930	1930
	Width	mm	1275+1420	1420+1420	1420+1420	1420+1420	1420+1665
	Depth	mm	790	790	790	790	790
Cabinet Color		-	Ivory White				
Net Weight		kg	349+369	369+369	369+377	377+377	377+400
Gross Weight		kg	371+393	393+393	393+401	401+401	401+426
Air Flow Rate		m³/min	467	534	563	592	646
Refrigerant charge before shipment		kg	9.20+9.80	9.80+9.80	9.80+10.60	10.60+10.60	10.60+11.50
Compressor Quantity		-	4	4	4	4	4
Condenser Fan Quantity		-	4	4	4	4	4
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)
	High/Low Pressure Gas Line	mm(in.)	Φ28.6 (1-1/8)	Φ28.6 (1-1/8)	Φ28.6 (1-1/8)	Φ28.6 (1-1/8)	Φ31.75 (1-1/4)
	Liquid Line	mm(in.)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)
Heat Pump Operation System	Gas Line	mm(in.)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)
	Liquid Line	mm(in.)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)
Operation Range	Cooling	°C DB	-10~52				
	Heating	°C WB	-25~16.5				

### Notes:

- 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
- 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.
- The final appearance of outdoor units is subject to the actual products.

# Hi-FLEXi S Series



Capacity			40HP	42HP	44HP	46HP	48HP
Model			AVWT-380FKFSHA	AVWT-402FKFSHA	AVWT-424FKFSHA	AVWT-444FKFSHA	AVWT-462FKFSHA
Combination			AVWT-190FKFSHA AVWT-190FKFSHA	AVWT-190FKFSHA AVWT-212FKFSHA	AVWT-212FKFSHA AVWT-212FKFSHA	AVWT-136FKFSHA AVWT-154FKFSHA AVWT-154FKFSHA	AVWT-154FKFSHA AVWT-154FKFSHA AVWT-154FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz				
Cooling Operation	Nominal Capacity	kW	112.0	117.5	123.0	130.0	135.0
		kBtu/h	382.1	400.9	419.7	443.6	460.6
	Power Consumption	kW	28.72	30.97	33.24	31.02	33.67
		EER	kW/kW	3.90	3.79	3.70	4.19
Heating Operation	Capacity (Max/Nom)	kW	126.0 / 112.0	132.0 / 117.5	138.0 / 123.0	145.0 / 130.0	150.0 / 135.0
		kBtu/h	429.9 / 382.1	450.4 / 400.9	470.9 / 419.7	494.7 / 443.6	511.8 / 460.6
	Power Consumption (Max/Nom)	kW	31.50 / 26.79	33.85 / 29.10	36.22 / 31.46	33.23 / 28.55	35.63 / 30.68
		COP (Max/Nom)	kW	4.00 / 4.18	3.90 / 4.04	3.81 / 3.91	4.36 / 4.55
Sound Pressure Level		dB(A)	66	67	67	67	67
Outer Dimensions	Height	mm	1730	1730	1730	1730	1730
	Width	mm	1600+1600	1600+1600	1600+1600	1210+1350+1350	1350+1350+1350
	Depth	mm	750	750	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930	1930	1930
	Width	mm	1665+1665	1665+1665	1665+1665	1275+1420+1420	1420+1420+1420
	Depth	mm	790	790	790	790	790
Cabinet Color		-	Ivory White				
Net Weight		kg	400+400	400+401	401+401	349+369+369	369+369+369
Gross Weight		kg	426+426	426+427	427+427	371+393+393	393+393+393
Air Flow Rate		m³/min	700	700	700	734	801
Refrigerant charge before shipment		kg	11.50+11.50	11.50+11.50	11.50+11.50	9.20+9.80+9.80	9.80+9.80+9.80
Compressor Quantity		-	4	4	4	6	6
Condenser Fan Quantity		-	4	4	4	6	6
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)
	High/Low Pressure Gas Line	mm(in.)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)
	Liquid Line	mm(in.)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)
Heat Pump Operation System	Gas Line	mm(in.)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)
	Liquid Line	mm(in.)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)
Operation Range	Cooling	°C DB	-10~52				
	Heating	°C WB	-25~16.5				

### Notes:

- 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
- 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.
- The final appearance of outdoor units is subject to the actual products.



# Hi-FLEXi S Series

## Outdoor unit specifications



Capacity			50HP	52HP	54HP	56HP
Model			AVWT-478FKFSHA	AVWT-494FKFSHA	AVWT-510FKFSHA	AVWT-530FKFSHA
Combination			AVWT-154FKFSHA	AVWT-154FKFSHA	AVWT-170FKFSHA	AVWT-170FKFSHA
			AVWT-154FKFSHA	AVWT-170FKFSHA	AVWT-170FKFSHA	AVWT-170FKFSHA
			AVWT-170FKFSHA	AVWT-170FKFSHA	AVWT-170FKFSHA	AVWT-190FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz			
Cooling Operation	Nominal Capacity	kW	140.0	145.0	150.0	156.0
		kBtu/h	477.7	494.7	511.8	532.3
	Power Consumption	kW	35.13	36.60	38.07	39.74
		EER	kW/kW	3.99	3.96	3.94
Heating Operation	Capacity (Max/Nom)	kW	156.0 / 140.0	162.0 / 145.0	168.0 / 150.0	175.0 / 156.0
		kBtu/h	532.3 / 477.7	552.7 / 494.7	573.2 / 511.8	597.1 / 532.3
	Power Consumption (Max/Nom)	kW	37.69 / 32.31	39.78 / 33.96	41.90 / 35.63	43.68 / 37.15
		COP (Max/Nom)	kW	4.14 / 4.33	4.07 / 4.27	4.01 / 4.21
Sound Pressure Level		dB(A)	67	67	67	67
Outer Dimensions	Height	mm	1730	1730	1730	1730
	Width	mm	1350+1350+1350	1350+1350+1350	1350+1350+1350	1350+1350+1600
	Depth	mm	750	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930	1930
	Width	mm	1420+1420+1420	1420+1420+1420	1420+1420+1420	1420+1420+1665
	Depth	mm	790	790	790	790
Cabinet Color		-	Ivory White			
Net Weight		kg	369+369+377	369+377+377	377+377+377	377+377+400
Gross Weight		kg	393+393+401	393+401+401	401+401+401	401+401+426
Air Flow Rate		m³/min	830	859	888	942
Refrigerant charge before shipment		kg	9.80+9.80+10.60	9.80+10.60+10.60	10.60+10.60+10.60	10.60+10.60+11.50
Compressor Quantity		-	6	6	6	6
Condenser Fan Quantity		-	6	6	6	6
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ41.3 (1-5/8)
	High/Low Pressure Gas Line	mm(in.)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ31.75 (1-1/4)	Φ38.1 (1-1/2)
	Liquid Line	mm(in.)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ22.2 (7/8)
Heat Pump Operation System	Gas Line	mm(in.)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ38.1 (1-1/2)	Φ41.3 (1-5/8)
	Liquid Line	mm(in.)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ22.2 (7/8)
Operation Range	Cooling	°C DB	-10~52			
	Heating	°C WB	-25~16.5			

### Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:  
Cooling conditions: indoor air inlet temperature: 27 °C DB 19 °C WB, Outdoor air inlet temperature: 35 °C DB, pipe length: 7.5m, pipe height difference: 0m  
Heating conditions: indoor air inlet temperature: 20 °C DB, Outdoor air inlet temperature: 7 °C DB 6 °C 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.

# Hi-FLEXi S Series



Capacity			58HP	60HP	62HP	64HP
Model			AVWT-550FKFSHA	AVWT-570FKFSHA	AVWT-592FKFSHA	AVWT-614FKFSHA
Combination			AVWT-170FKFSHA	AVWT-190FKFSHA	AVWT-190FKFSHA	AVWT-190FKFSHA
			AVWT-190FKFSHA	AVWT-190FKFSHA	AVWT-190FKFSHA	AVWT-212FKFSHA
			AVWT-190FKFSHA	AVWT-190FKFSHA	AVWT-212FKFSHA	AVWT-212FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz			
Cooling Operation	Nominal Capacity	kW	162.0	168.0	173.5	179.0
		kBtu/h	552.7	573.2	592.0	610.7
	Power Consumption	kW	41.41	43.08	45.32	47.58
		EER	kW/kW	3.91	3.90	3.83
Heating Operation	Capacity (Max/Nom)	kW	182.0 / 162.0	189.0 / 168.0	195.0 / 173.5	201.0 / 179.0
		kBtu/h	621.0 / 552.7	644.9 / 573.2	665.3 / 592.0	685.8 / 610.7
	Power Consumption (Max/Nom)	kW	45.46 / 38.67	47.25 / 40.19	49.59 / 42.49	51.95 / 44.82
		COP (Max/Nom)	kW	4.00 / 4.19	4.00 / 4.18	3.93 / 4.08
Sound Pressure Level		dB(A)	67	68	68	68
Outer Dimensions	Height	mm	1730	1730	1730	1730
	Width	mm	1350+1600+1600	1600+1600+1600	1600+1600+1600	1600+1600+1600
	Depth	mm	750	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930	1930
	Width	mm	1420+1665+1665	1665+1665+1665	1665+1665+1665	1665+1665+1665
	Depth	mm	790	790	790	790
Cabinet Color		-	Ivory White			
Net Weight		kg	377+400+400	400+400+400	400+400+401	400+401+401
Gross Weight		kg	401+426+426	426+426+426	426+426+427	426+427+427
Air Flow Rate		m³/min	996	1050	1050	1050
Refrigerant charge before shipment		kg	10.60+11.50+11.50	11.50+11.50+11.50	11.50+11.50+11.50	11.50+11.50+11.50
Compressor Quantity		-	6	6	6	6
Condenser Fan Quantity		-	6	6	6	6
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)
	High/Low Pressure Gas Line	mm(in.)	Φ41.3 (1-5/8)	Φ41.3 (1-5/8)	Φ41.3 (1-5/8)	Φ41.3 (1-5/8)
	Liquid Line	mm(in.)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ22.2 (7/8)
Heat Pump Operation System	Gas Line	mm(in.)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)
	Liquid Line	mm(in.)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ22.2 (7/8)
Operation Range	Cooling	°C DB	-10~52			
	Heating	°C WB	-25~16.5			

### Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:  
Cooling conditions: indoor air inlet temperature: 27 °C DB 19 °C WB, Outdoor air inlet temperature: 35 °C DB, pipe length: 7.5m, pipe height difference: 0m  
Heating conditions: indoor air inlet temperature: 20 °C DB, Outdoor air inlet temperature: 7 °C DB 6 °C 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.

# Hi-FLEXi S Series

## Outdoor unit specifications



Capacity			66HP	68HP	70HP
Model			AVWT-636FKFSHA	AVWT-648FKFSHA	AVWT-664FKFSHA
Combination			AVWT-212FKFSHA	AVWT-154FKFSHA	AVWT-154FKFSHA
			AVWT-212FKFSHA	AVWT-154FKFSHA	AVWT-170FKFSHA
			AVWT-212FKFSHA	AVWT-170FKFSHA	AVWT-170FKFSHA
			AVWT-212FKFSHA	AVWT-170FKFSHA	AVWT-170FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz		
Cooling Operation	Nominal Capacity	kW	184.5	190.0	195.0
		kBtu/h	629.5	648.3	665.3
	Power Consumption	kW	49.86	47.82	49.29
	EER	kW/kW	3.70	3.97	3.96
Heating Operation	Capacity (Max/Nom)	kW	207.0 / 184.5	212.0 / 190.0	218.0 / 195.0
		kBtu/h	706.3 / 629.5	723.3 / 648.3	743.8 / 665.3
	Power Consumption (Max/Nom)	kW	54.33 / 47.19	51.64 / 44.18	53.74 / 45.84
	COP (Max/Nom)	kW	3.81 / 3.91	4.11 / 4.30	4.06 / 4.25
Sound Pressure Level		dB(A)	69	69	69
Outer Dimensions	Height	mm	1730	1730	1730
	Width	mm	1600+1600+1600	1350+1350+1350+1350	1350+1350+1350+1350
	Depth	mm	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930
	Width	mm	1665+1665+1665	1420+1420+1420+1420	1420+1420+1420+1420
	Depth	mm	790	790	790
Cabinet Color		-	Ivory White		
Net Weight		kg	401+401+401	369+369+377+377	369+377+377+377
Gross Weight		kg	427+427+427	393+393+401+401	393+401+401+401
Air Flow Rate		m³/min	1050	1126	1155
Refrigerant charge before shipment		kg	11.50+11.50+11.50	9.80+9.80+10.60+10.60	9.80+10.60+10.60+10.60
Compressor Quantity		-	6	8	8
Condenser Fan Quantity		-	6	8	8
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ44.5 (1-3/4)	Φ50.8 (2)	Φ50.8 (2)
	High/Low Pressure Gas Line	mm(in.)	Φ41.3 (1-5/8)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)
	Liquid Line	mm(in.)	Φ22.2 (7/8)	Φ25.4 (1)	Φ25.4 (1)
Heat Pump Operation System	Gas Line	mm(in.)	Φ44.5 (1-3/4)	Φ50.8 (2)	Φ50.8 (2)
	Liquid Line	mm(in.)	Φ22.2 (7/8)	Φ25.4 (1)	Φ25.4 (1)
Operation Range	Cooling	°C DB	-10~52		
	Heating	°C WB	-25~16.5		

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.

# Hi-FLEXi S Series



Capacity			72HP	74HP	76HP
Model			AVWT-680FKFSHA	AVWT-700FKFSHA	AVWT-720FKFSHA
Combination			AVWT-170FKFSHA	AVWT-170FKFSHA	AVWT-170FKFSHA
			AVWT-170FKFSHA	AVWT-170FKFSHA	AVWT-170FKFSHA
			AVWT-170FKFSHA	AVWT-170FKFSHA	AVWT-190FKFSHA
			AVWT-170FKFSHA	AVWT-190FKFSHA	AVWT-190FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz		
Cooling Operation	Nominal Capacity	kW	200.0	206.0	212.0
		kBtu/h	682.4	702.9	723.3
	Power Consumption	kW	50.76	52.43	54.10
		EER	kW/kW	3.94	3.93
Heating Operation	Capacity (Max/Nom)	kW	224.0 / 200.0	231.0 / 206.0	238.0 / 212.0
		kBtu/h	764.3 / 682.4	788.2 / 702.9	812.1 / 723.3
	Power Consumption (Max/Nom)	kW	55.86 / 47.51	57.65 / 49.03	59.43 / 50.55
		COP (Max/Nom)	kW	4.01 / 4.21	4.01 / 4.20
Sound Pressure Level		dB(A)	69	69	69
Outer Dimensions	Height	mm	1730	1730	1730
	Width	mm	1350+1350+1350+1350	1350+1350+1350+1600	1350+1350+1600+1600
	Depth	mm	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930
	Width	mm	1420+1420+1420+1420	1420+1420+1420+1665	1420+1420+1665+1665
	Depth	mm	790	790	790
Cabinet Color		-	Ivory White		
Net Weight		kg	377+377+377+377	377+377+377+400	377+377+400+400
Gross Weight		kg	401+401+401+401	401+401+401+426	401+401+426+426
Air Flow Rate		m³/min	1184	1238	1292
Refrigerant charge before shipment		kg	10.60+10.60+10.60+10.60	10.60+10.60+10.60+11.50	10.60+10.60+11.50+11.50
Compressor Quantity		-	8	8	8
Condenser Fan Quantity		-	8	8	8
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ50.8 (2)	Φ50.8 (2)	Φ50.8 (2)
	High/Low Pressure Gas Line	mm(in.)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)
	Liquid Line	mm(in.)	Φ25.4 (1)	Φ25.4 (1)	Φ25.4 (1)
Heat Pump Operation System	Gas Line	mm(in.)	Φ50.8 (2)	Φ50.8 (2)	Φ50.8 (2)
	Liquid Line	mm(in.)	Φ25.4 (1)	Φ25.4 (1)	Φ25.4 (1)
Operation Range	Cooling	°C DB	-10~52		
	Heating	°C WB	-25~16.5		

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.



# Hi-FLEXi S Series

## Outdoor unit specifications



Capacity			78HP	80HP	82HP
Model			AVWT-740FKFSHA	AVWT-760FKFSHA	AVWT-782FKFSHA
Combination			AVWT-170FKFSHA	AVWT-190FKFSHA	AVWT-190FKFSHA
			AVWT-190FKFSHA	AVWT-190FKFSHA	AVWT-190FKFSHA
			AVWT-190FKFSHA	AVWT-190FKFSHA	AVWT-190FKFSHA
			AVWT-190FKFSHA	AVWT-190FKFSHA	AVWT-212FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz		
Cooling Operation	Nominal Capacity	kW	218.0	224.0	229.5
		kBtu/h	743.8	764.3	783.1
	Power Consumption	kW	55.77	57.44	59.68
	EER	kW/kW	3.91	3.90	3.85
Heating Operation	Capacity (Max/Nom)	kW	245.0 / 218.0	252.0 / 224.0	258.0 / 229.5
		kBtu/h	835.9 / 743.8	859.8 / 764.3	880.3 / 783.1
	Power Consumption (Max/Nom)	kW	61.21 / 52.07	63.00 / 53.59	65.34 / 55.88
	COP (Max/Nom)	kW	4.00 / 4.19	4.00 / 4.18	3.95 / 4.11
Sound Pressure Level		dB(A)	69	69	69
Outer Dimensions	Height	mm	1730	1730	1730
	Width	mm	1350+1600+1600+1600	1600+1600+1600+1600	1600+1600+1600+1600
	Depth	mm	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930
	Width	mm	1420+1665+1665+1665	1665+1665+1665+1665	1665+1665+1665+1665
	Depth	mm	790	790	790
Cabinet Color		-	Ivory White		
Net Weight		kg	377+400+400+400	400+400+400+400	400+400+400+401
Gross Weight		kg	401+426+426+426	426+426+426+426	426+426+426+427
Air Flow Rate		m³/min	1346	1400	1400
Refrigerant charge before shipment		kg	10.60+11.50+11.50+11.50	11.50+11.50+11.50+11.50	11.50+11.50+11.50+11.05
Compressor Quantity		-	8	8	8
Condenser Fan Quantity		-	8	8	8
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ50.8 (2)	Φ50.8 (2)	Φ50.8 (2)
	High/Low Pressure Gas Line	mm(in.)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)
	Liquid Line	mm(in.)	Φ25.4 (1)	Φ25.4 (1)	Φ25.4 (1)
Heat Pump Operation System	Gas Line	mm(in.)	Φ50.8 (2)	Φ50.8 (2)	Φ50.8 (2)
	Liquid Line	mm(in.)	Φ25.4 (1)	Φ25.4 (1)	Φ25.4 (1)
Operation Range	Cooling	°C DB	-10~52		
	Heating	°C WB	-25~16.5		

### 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.

# Hi-FLEXi S Series



Capacity			84HP	86HP	88HP
Model			AVWT-804FKFSHA	AVWT-826FKFSHA	AVWT-848FKFSHA
Combination			AVWT-190FKFSHA	AVWT-190FKFSHA	AVWT-212FKFSHA
			AVWT-190FKFSHA	AVWT-212FKFSHA	AVWT-212FKFSHA
			AVWT-212FKFSHA	AVWT-212FKFSHA	AVWT-212FKFSHA
			AVWT-212FKFSHA	AVWT-212FKFSHA	AVWT-212FKFSHA
Power Supply			AC 3Φ,380-415V/50/60Hz		
Cooling Operation	Nominal Capacity	kW	235.0	240.5	246.0
		kBtu/h	801.8	820.6	839.4
	Power Consumption	kW	61.93	64.20	66.49
	EER	kW/kW	3.79	3.75	3.70
Heating Operation	Capacity (Max/Nom)	kW	264.0 / 235.0	270.0 / 240.5	276.0 / 246.0
		kBtu/h	900.8 / 801.8	921.2 / 820.6	941.7 / 839.4
	Power Consumption (Max/Nom)	kW	67.70 / 58.20	70.06 / 60.55	72.44 / 62.92
	COP (Max/Nom)	kW	3.90 / 4.04	3.85 / 3.97	3.81 / 3.91
Sound Pressure Level		dB(A)	70	70	70
Outer Dimensions	Height	mm	1730	1730	1730
	Width	mm	1600+1600+1600+1600	1600+1600+1600+1600	1600+1600+1600+1600
	Depth	mm	750	750	750
Packing Dimensions	Height	mm	1930	1930	1930
	Width	mm	1665+1665+1665+1665	1665+1665+1665+1665	1665+1665+1665+1665
	Depth	mm	790	790	790
Cabinet Color		-	Ivory White		
Net Weight		kg	400+400+401+401	400+401+401+401	401+401+401+401
Gross Weight		kg	426+426+427+427	426+427+427+427	427+427+427+427
Air Flow Rate		m³/min	1400	1400	1400
Refrigerant charge before shipment		kg	11.50+11.50+11.50+11.05	11.50+11.50+11.50+11.05	11.50+11.50+11.50+11.05
Compressor Quantity		-	8	8	8
Condenser Fan Quantity		-	8	8	8
Heat Recovery Operation System	Low Pressure Gas Line	mm(in.)	Φ50.8 (2)	Φ50.8 (2)	Φ50.8 (2)
	High/Low Pressure Gas Line	mm(in.)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)	Φ44.5 (1-3/4)
	Liquid Line	mm(in.)	Φ25.4 (1)	Φ25.4 (1)	Φ25.4 (1)
Heat Pump Operation System	Gas Line	mm(in.)	Φ50.8 (2)	Φ50.8 (2)	Φ50.8 (2)
	Liquid Line	mm(in.)	Φ25.4 (1)	Φ25.4 (1)	Φ25.4 (1)
Operation Range	Cooling	°C DB	-10~52		
	Heating	°C WB	-25~16.5		

### 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.



# Hi-FLEXi W Series

Hi-FLEXi W Series Heat Recovery is available to two-pipes and three-pipes system, and can realize two-stage heat recovery (water-side heat recovery and refrigerant-side heat recovery) to achieve simultaneous cooling and heating in one system, bring you a more comfortable indoor environment.

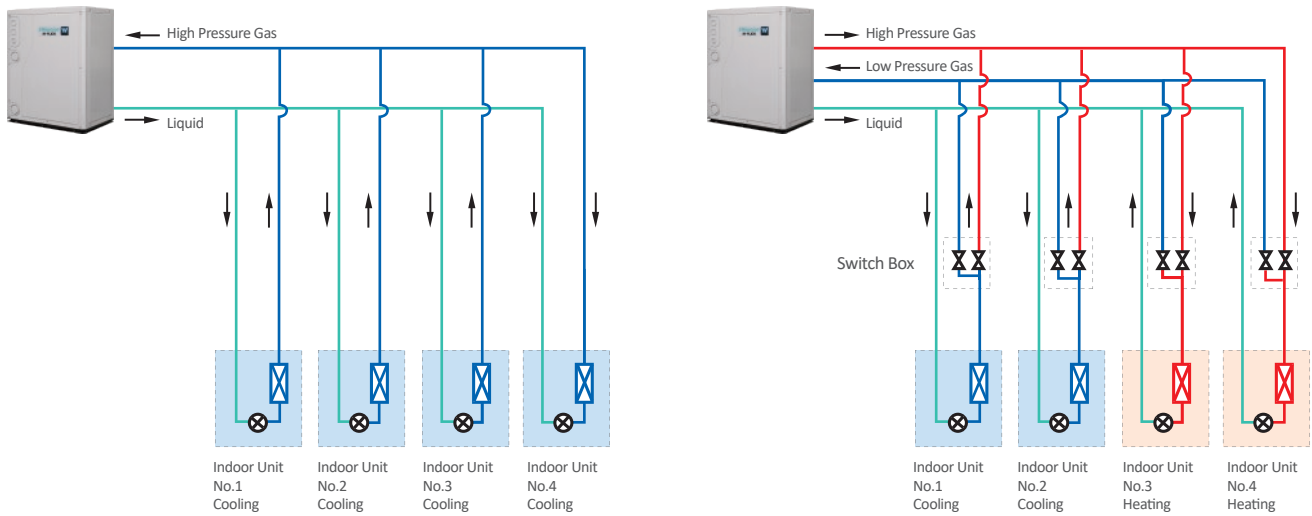
Simultaneous cooling and heating

Convenient installation

360° fitted refrigerant cooling technology

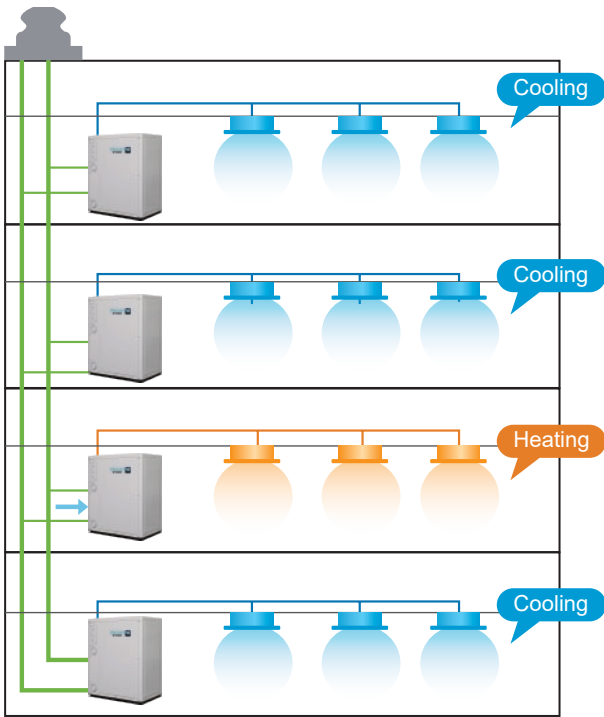
## Hi-FLEXi W Series

Available for two-pipe systems and three-pipe systems

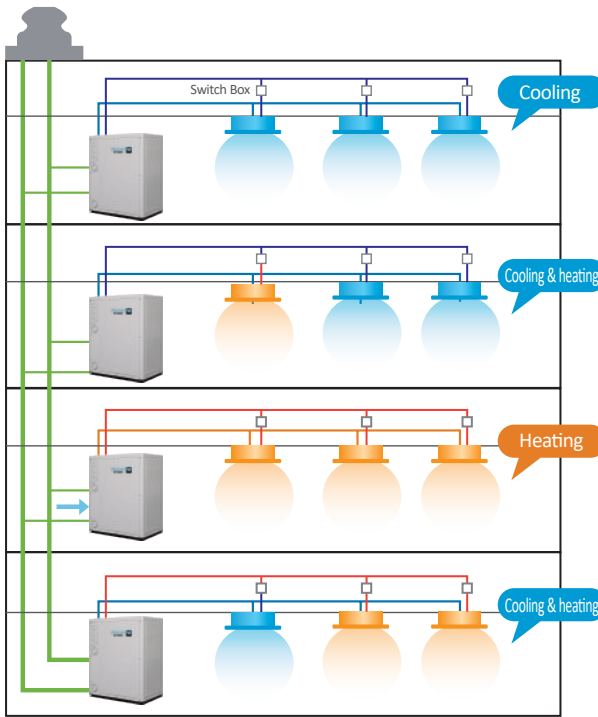


### 2-stage heat recovery

#### 1-stage heat recovery



#### 2-stage heat recovery

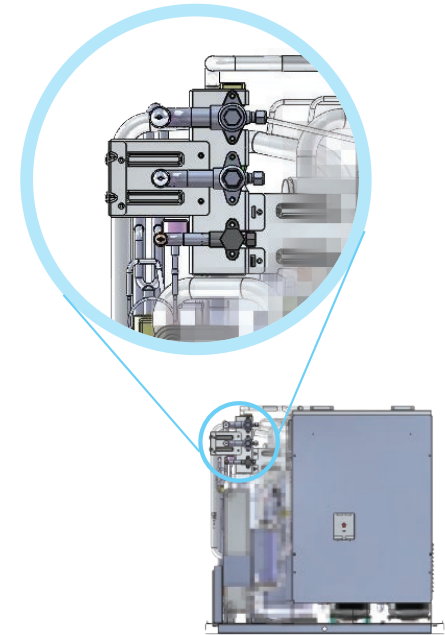
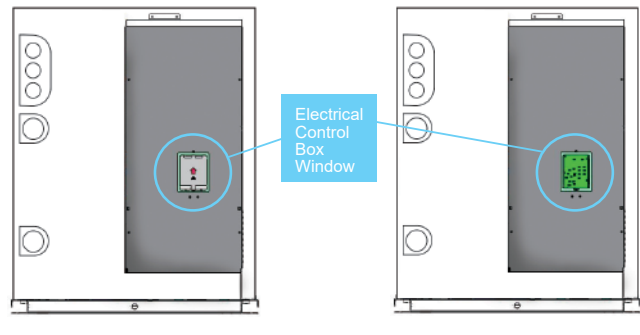




# Hi-FLEXi W Series

## Convenient installation

The electrical control box window is designed for service engineers to check issues of PCB conveniently. Especially for issues with a high voltage risk of electric shock, it can help engineers to avoid some risks.



It is very convenient to install and save installation space because of the front outlet pipes.

- Compared with air-cooled units, it has no ventilation requirements.
- Convenient installation, no need to install air duct.



## Continuous heating without defrosting operation

Because the product is generally installed indoors, in heating mode, the cold energy is discharged to the outside through water, which avoids the defrosting problem of air-cooled products.



# Hi-FLEXi W Series

## Indoor installation, not affected by weather conditions

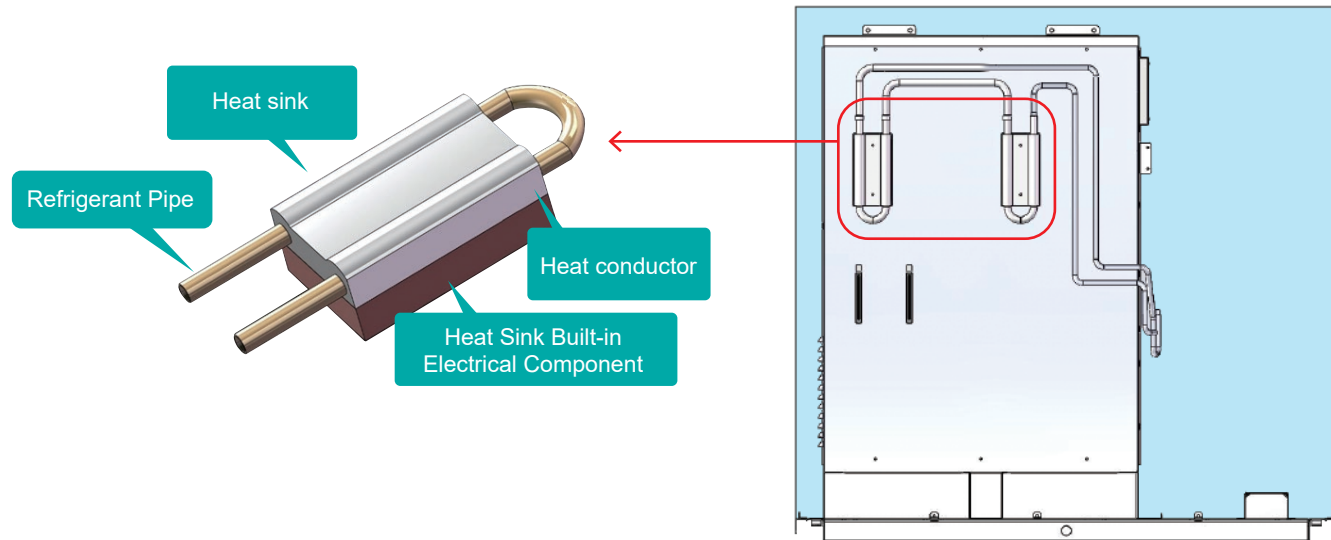
Indoor installation does not affect the facade of building , and avoids the poor heat dissipation problems which often encountered by many air-cooled outdoor units. Water-cooled efficiency is higher than air-cooled, making the system more energy efficient.



## PATENTED 360° fitted refrigerant cooling technology

Patented 360° refrigerant cooling technology can help to remove the heat from the main PCB, inverter module and electrical box efficiently, which will greatly improve the reliability of the machine, especially in the high temperature ambient.

- A tin heat conductor is adopted between the refrigerant pipe and the heat sink to increase the heat transfer efficiency.
- The heat sink, made of aluminum alloy with high thermal conductivity, and the refrigerant tube are tightly combined through tube expander to improve heat exchange efficiency.



# Hi-FLEXi W Series

## Outdoor unit specifications



Hi-FLEXi W Series Heat Recovery		HP	8HP	10HP	12HP	14HP
Model Power Supply	AC 3Φ, 380 ~ 415V/50Hz(60Hz)		AVWW-76FKFW	AVWW-96FKFW	AVWW-114FKFW	AVWW-136FKFW
Cooling Operation	Nominal Capacity*1	kW	22.4	28.0	33.5	40.0
		KBtu/h	76.5	95.6	114.3	136.5
	Nominal Input	kW	3.85	5.04	6.32	7.84
	EER		5.82	5.55	5.30	5.10
Heating Operation	Nominal Capacity*1	kW	25.0	31.5	37.5	45.0
		KBtu/h	85.3	107.5	128.0	153.6
	Nominal Input	kW	4.08	5.25	6.45	8.03
	COP		6.12	6.00	5.81	5.60
Outer Dimensions	Height	mm	1030	1030	1030	1030
	Width	mm	820	820	820	820
	Depth	mm	560	560	560	560
	Area	m²	0.46	0.46	0.46	0.46
Packing Dimensions	H×W×D	mm	1180×900×632	1180×900×632	1180×900×632	1180×900×632
Net Weight		Kg	166	166	171	171
Gross Weight		Kg	170	170	175	175
Sound Pressure Level *2	Cooling/Heating	dB(A)	49/51	51/53	53/54	55/57
Water-Side Heat Exchanger	Water Temperature*3	°C	10~45	10~45	10~45	10~45
	Water Flow Rate	L/min	76.7	96.0	115.0	138.3
	Water Pressure Drop	kPa	30	45	45	60
	Maximum Pressure Resistance	kgf/cm²	20	20	20	20
Refrigerant Connecting Pipes	Liquid Pipe	mm(in.)	Φ9.53(3/8)	Φ9.53(3/8)	Φ12.7(1/2)	Φ12.7(1/2)
	Low Pressure Gas Pipe	mm(in.)	Φ19.05(3/4)	Φ22.2(7/8)	Φ25.4(1)	Φ25.4(1)
	High/Low Pressure Gas Pipe	mm(in.)	Φ15.88(5/8)	Φ19.05(3/4)	Φ22.2(7/8)	Φ22.2(7/8)
Water Connecting Pipes	Water Pipe		DN32	DN32	DN32	DN32
	Thread of Connector		G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B
	Drain Pipe	mm	Outer Diameter 18			
MAX. Connectable Indoor Units	Recommended		12	15	18	21
	MAX.		19	24	29	34
MAX. Piping Length*4		m	300(500)	300(500)	300(500)	300(500)
MAX. Height Difference Between ODU and IDU		m	50	50	50	50
MAX. Piping length Between IDUs with same SW Box		m	40	40	40	40

Notes:

\*1. Operation Condition:  
Cooling:Indoor Temperature 27°CDB/19°C WB, Water Inlet/Outlet 30/35°C.  
Heating:Indoor Temperature 20°C DB/15°C WB, Water Inlet 20°C.

\*2. The sound pressure is based on the following conditions.  
1 Meter from the unit service cover surface, and 1.5 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.

\*3. When unit is operating out of the allowable water temperature range, it won't strat normally and will alarm.

\*4. For Max.pipe length more than 300m, please contact our professional engineer.

# Hi-FLEXi W Series



Hi-FLEXi W Series Heat Recovery		HP	16HP	18HP	20HP
Model Power Supply	AC 3Φ, 380 ~ 415V/50Hz(60Hz)		AVWW-154FKFW	AVWW-170FKFW	AVWW-190FKFW
Cooling Operation	Nominal Capacity*1	kW	45.0	50.0	56.0
		KBtu/h	153.6	170.6	191.1
	Nominal Input	kW	8.11	9.43	10.98
	EER		5.55	5.30	5.10
Heating Operation	Nominal Capacity*1	kW	50.0	56.0	63.0
		KBtu/h	170.6	191.1	215.0
	Nominal Input	kW	8.33	9.62	10.86
	COP		6.00	5.82	5.80
Outer Dimensions	Height	mm	1030	1030	1030
	Width	mm	1040	1040	1040
	Depth	mm	560	560	560
	Area	m²	0.58	0.58	0.58
Packing Dimensions	H×W×D	mm	1180×1112×632	1180×1112×632	1180×1112×632
Net Weight		Kg	245	246	246
Gross Weight		Kg	250	251	251
Sound Pressure Level *2	Cooling/Heating	dB(A)	51/52	53/53	53/55
Water-Side Heat Exchanger	Water Temperature*3	°C	10~45	10~45	10~45
	Water Flow Rate	L/min	153.3	166.7	193.3
	Water Pressure Drop	kPa	40	45	60
	Maximum Pressure Resistance	kgf/cm²	20	20	20
Refrigerant Connecting Pipes	Liquid Pipe	mm(in.)	Φ12.7(1/2)	Φ15.88(5/8)	Φ15.88(5/8)
	Low Pressure Gas Pipe	mm(in.)	Φ28.6(1-1/8)	Φ28.6(1-1/8)	Φ28.6(1-1/8)
	High/Low Pressure Gas Pipe	mm(in.)	Φ22.2(7/8)	Φ22.2(7/8)	Φ22.2(7/8)
Water Connecting Pipes	Water Pipe		DN32	DN32	DN32
	Thread of Connector		G1-1/4B	G1-1/4B	G1-1/4B
	Drain Pipe	mm	Outer Diameter 18		
MAX. Connectable Indoor Units	Recommended		23	26	29
	MAX.		39	43	48
MAX. Piping Length*4		m	300(500)	300(500)	300(500)
MAX. Height Difference Between ODU and IDU		m	50	50	50
MAX. Piping length Between IDUs with same SW Box		m	40	40	40

Notes:

\*1. Operation Condition:  
Cooling:Indoor Temperature 27°CDB/19°C WB, Water Inlet/Outlet 30/35°C.  
Heating:Indoor Temperature 20°C DB/15°C WB, Water Inlet 20°C.

\*2. The sound pressure is based on the following conditions.  
1 Meter from the unit service cover surface, and 1.5 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.

\*3. When unit is operating out of the allowable water temperature range, it won't strat normally and will alarm.

\*4. For Max.pipe length more than 300m, please contact our professional engineer.



# Hi-FLEXi W Series

## Outdoor unit specifications



Hi-FLEXi W Series Heat Recovery		HP	22HP	24HP	26HP	28HP	30HP
Model	Power Supply	AC 3Φ, 380 ~ 415V/50Hz(60Hz)	AVWW-210FKFW	AVWW-228FKFW	AVWW-250FKFW	AVWW-268FKFW	AVWW-286FKFW
Combination			AVWW-96FKFW AVWW-114FKFW	AVWW-114FKFW AVWW-114FKFW	AVWW-114FKFW AVWW-136FKFW	AVWW-114FKFW AVWW-154FKFW	AVWW-96FKFW AVWW-190FKFW
Cooling Operation	Nominal Capacity*1	kW	61.5	67.0	73.5	78.5	84.0
		KBtu/h	209.9	228.6	250.8	267.9	286.7
	Nominal Input	kW	11.4	12.6	14.2	14.4	16.0
	EER		5.41	5.30	5.19	5.44	5.24
Heating Operation	Nominal Capacity*1	kW	69.0	75.0	82.5	87.5	94.5
		KBtu/h	235.4	255.9	281.6	298.6	322.4
	Nominal Input	kW	11.7	12.9	14.5	14.8	16.1
	COP		5.90	5.81	5.70	5.92	5.87
Outer Dimensions	H×W×D	mm	1030×820×560+ 1030×820×560	1030×820×560+ 1030×820×560	1030×820×560+ 1030×820×560	1030×820×560+ 1030×1040×560	1030×820×560+ 1030×1040×560
	Area	m²	0.9	0.9	0.9	1.0	1.0
Packing Dimensions	H×W×D	mm	1180×900×632+ 1180×900×632	1180×900×632+ 1180×900×632	1180×900×632+ 1180×900×632	1180×900×632+ 1180×1112×632	1180×900×632+ 1180×1112×632
Net Weight		Kg	337	342	342	416	412
Gross Weight		Kg	345	350	350	425	421
Sound Pressure Level *2	Cooling/Heating	dB(A)	56/57	56/57	58/60	56/57	56/58
Water-Side Heat Exchanger	Water Temperature*3	°C	10~45	10~45	10~45	10~45	10~45
	Water Flow Rate	L/min	211.0	230.0	253.3	268.3	289.3
	Water Pressure Drop	kPa	/	/	/	/	/
	Maximum Pressure Resistance	kgf/cm²	20	20	20	20	20
Refrigerant Connecting Pipes	Liquid Pipe	mm(in.)	Φ15.88(5/8)	Φ15.88(5/8)	Φ19.05(3/4)	Φ19.05(3/4)	Φ19.05(3/4)
	Low Pressure Gas Pipe	mm(in.)	Φ28.6(1-1/8)	Φ28.6(1-1/8)	Φ31.75(1-1/4)	Φ31.75(1-1/4)	Φ31.75(1-1/4)
	High/Low Pressure Gas Pipe	mm(in.)	Φ25.4(1)	Φ25.4(1)	Φ25.4(1)	Φ28.6(1-1/8)	Φ28.6(1-1/8)
Water Connecting Pipes	Water Pipe		DN32	DN32	DN32	DN32	DN32
	Thread of Connector		G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B
	Drain Pipe	mm	Outer Diameter 18				
MAX. Connectable Indoor Units	Recommended		33	36	39	40	40
	MAX.		53	58	63	64	64
MAX. Piping Length*4		m	300(500)	300(500)	300(500)	300(500)	300(500)
MAX. Height Difference Between ODU and IDU		m	50	50	50	50	50
MAX. Piping length Between IDUs with same SW Box		m	40	40	40	40	40

Notes:

- \*1. Operation Condition:  
Cooling:Indoor Temperature 27℃DB/19℃ WB, Water Inlet/Outlet 30/35℃.  
Heating:Indoor Temperature 20℃ DB/15℃ WB, Water Inlet 20℃.
- \*2. The sound pressure is based on the following conditions.  
1 Meter from the unit service cover surface, and 1.5 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.
- \*3. When unit is operating out of the allowable water temperature range, it won't strat normally and will alarm.
- \*4. For Max.pipe length more than 300m, please contact our professional engineer.

# Hi-FLEXi W Series



Hi-FLEXi W Series Heat Recovery		HP	32HP	34HP	36HP	38HP	40HP
Model	Power Supply	AC 3Φ, 380 ~ 415V/50Hz(60Hz)	AVWW-304FKFW	AVWW-326FKFW	AVWW-344FKFW	AVWW-360FKFW	AVWW-380FKFW
Combination			AVWW-114FKFW AVWW-190FKFW	AVWW-136FKFW AVWW-190FKFW	AVWW-154FKFW AVWW-190FKFW	AVWW-170FKFW AVWW-190FKFW	AVWW-190FKFW AVWW-190FKFW
Cooling Operation	Nominal Capacity*1	kW	89.5	96.0	101.0	106.0	112.0
		KBtu/h	305.4	327.6	344.7	361.7	382.1
	Nominal Input	kW	17.3	18.8	19.1	20.4	22.0
	EER		5.17	5.10	5.29	5.19	5.10
Heating Operation	Nominal Capacity*1	kW	100.5	108.0	113.0	119.0	126.0
		KBtu/h	342.9	368.6	385.6	406.0	429.9
	Nominal Input	kW	17.3	18.9	19.2	20.5	21.7
	COP		5.81	5.72	5.89	5.81	5.80
Outer Dimensions	H×W×D	mm	1030×820×560+ 1030×1040×560	1030×820×560+ 1030×1040×560	1030×1040×560+ 1030×1040×560	1030×1040×560+ 1030×1040×560	1030×1040×560+ 1030×1040×560
	Area	m²	1.0	1.0	1.2	1.2	1.2
Packing Dimensions	H×W×D	mm	1180×900×632+ 1180×1112×632	1180×900×632+ 1180×1112×632	1180×1112×632+ 1180×1112×632	1180×1112×632+ 1180×1112×632	1180×1112×632+ 1180×1112×632
Net Weight		Kg	417	417	491	492	492
Gross Weight		Kg	426	426	501	502	502
Sound Pressure Level *2	Cooling/Heating	dB(A)	56/58	58/60	56/58	56/58	56/58
Water-Side Heat Exchanger	Water Temperature*3	°C	10~45	10~45	10~45	10~45	10~45
	Water Flow Rate	L/min	308.3	331.7	346.7	360.0	386.7
	Water Pressure Drop	kPa	/	/	/	/	/
	Maximum Pressure Resistance	kgf/cm²	20	20	20	20	20
Refrigerant Connecting Pipes	Liquid Pipe	mm(in.)	Φ19.05(3/4)	Φ19.05(3/4)	Φ19.05(3/4)	Φ19.05(3/4)	Φ19.05(3/4)
	Low Pressure Gas Pipe	mm(in.)	Φ31.75(1-1/4)	Φ31.75(1-1/4)	Φ31.75(1-1/4)	Φ38.1(1-1/2)	Φ38.1(1-1/2)
	High/Low Pressure Gas Pipe	mm(in.)	Φ28.6(1-1/8)	Φ28.6(1-1/8)	Φ28.6(1-1/8)	Φ31.75(1-1/4)	Φ31.75(1-1/4)
Water Connecting Pipes	Water Pipe		DN32	DN32	DN32	DN32	DN32
	Thread of Connector		G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B
	Drain Pipe	mm	Outer Diameter 18				
MAX. Connectable Indoor Units	Recommended		40	40	40	40	40
	MAX.		64	64	64	64	64
MAX. Piping Length*4		m	300(500)	300(500)	300(500)	300(500)	300(500)
MAX. Height Difference Between ODU and IDU		m	50	50	50	50	50
MAX. Piping length Between IDUs with same SW Box		m	40	40	40	40	40

Notes:

- \*1. Operation Condition:  
Cooling:Indoor Temperature 27℃DB/19℃ WB, Water Inlet/Outlet 30/35℃.  
Heating:Indoor Temperature 20℃ DB/15℃ WB, Water Inlet 20℃.
- \*2. The sound pressure is based on the following conditions.  
1 Meter from the unit service cover surface, and 1.5 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.
- \*3. When unit is operating out of the allowable water temperature range, it won't strat normally and will alarm.
- \*4. For Max.pipe length more than 300m, please contact our professional engineer.

# Hi-FLEXi W Series

## Outdoor Unit Specifications



Hi-FLEXi W Series Heat Recovery		HP	42HP	44HP	46HP	48HP	50HP
Model Power Supply	AC 3Φ, 380 ~ 415V/50Hz(60Hz)		AVWW-400FKFW	AVWW-418FKFW	AVWW-440FKFW	AVWW-456FKFW	AVWW-476FKFW
Combination			AVWW-96FKFW	AVWW-114FKFW	AVWW-96FKFW	AVWW-96FKFW	AVWW-96FKFW
			AVWW-114FKFW	AVWW-114FKFW	AVWW-154FKFW	AVWW-170FKFW	AVWW-190FKFW
			AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW
Cooling Operation	Nominal Capacity*1	kW	117.5	123.0	129.0	134.0	140.0
		KBtu/h	401.0	419.7	440.3	457.3	477.7
	Nominal Input	kW	22.3	23.6	24.1	25.5	27.0
	EER		5.26	5.21	5.35	5.27	5.19
Heating Operation	Nominal Capacity*1	kW	132.0	138.0	144.5	150.5	157.5
		KBtu/h	450.4	470.9	493.0	513.5	537.4
	Nominal Input	kW	22.6	23.8	24.4	25.7	27.0
	COP		5.85	5.81	5.91	5.85	5.84
Outer Dimensions	H×W×D	mm	1030×820×560+ 1030×820×560+ 1030×1040×560	1030×820×560+ 1030×820×560+ 1030×1040×560	1030×820×560+ 1030×1040×560+ 1030×1040×560	1030×820×560+ 1030×1040×560+ 1030×1040×560	1030×820×560+ 1030×1040×560+ 1030×1040×560
	Area	m²	1.5	1.5	1.6	1.6	1.6
Packing Dimensions	H×W×D	mm	1180×900×632+ 1180×900×632+ 1180×1112×632	1180×900×632+ 1180×900×632+ 1180×1112×632	1180×900×632+ 1180×1112×632+ 1180×1112×632	1180×900×632+ 1180×1112×632+ 1180×1112×632	1180×900×632+ 1180×1112×632+ 1180×1112×632
Net Weight		Kg	583	588	657	658	658
Gross Weight		Kg	596	601	671	672	672
Sound Pressure Level *2	Cooling/Heating	dB(A)	58/60	58/60	58/60	58/60	58/60
Water-Side Heat Exchanger	Water Temperature*3	°C	10~45	10~45	10~45	10~45	10~45
	Water Flow Rate	L/min	404.3	423.3	442.7	456.0	482.7
	Water Pressure Drop	kPa	/	/	/	/	/
	Maximum Pressure Resistance	kgf/cm²	20	20	20	20	20
Refrigerant Connecting Pipes	Liquid Pipe	mm(in.)	Φ19.05(3/4)	Φ19.05(3/4)	Φ19.05(3/4)	Φ19.05(3/4)	Φ19.05(3/4)
	Low Pressure Gas Pipe	mm(in.)	Φ38.1(1-1/2)	Φ38.1(1-1/2)	Φ38.1(1-1/2)	Φ38.1(1-1/2)	Φ38.1(1-1/2)
	High/Low Pressure Gas Pipe	mm(in.)	Φ31.75(1-1/4)	Φ31.75(1-1/4)	Φ31.75(1-1/4)	Φ31.75(1-1/4)	Φ31.75(1-1/4)
Water Connecting Pipes	Water Pipe		DN32	DN32	DN32	DN32	DN32
	Thread of Connector		G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B
	Drain Pipe	mm	Outer Diameter 18				
MAX. Connectable Indoor Units	Recommended		40	40	40	40	40
	MAX.		64	64	64	64	64
MAX. Piping Length*4		m	300(500)	300(500)	300(500)	300(500)	300(500)
MAX. Height Difference Between ODU and IDU		m	50	50	50	50	50
MAX. Piping length Between IDUs with same SW Box		m	40	40	40	40	40

Notes:

- \*1. Operation Condition:  
Cooling:Indoor Temperature 27°CDB/19°C WB, Water Inlet/Outlet 30/35°C.  
Heating:Indoor Temperature 20°C DB/15°C WB, Water Inlet 20°C.
- \*2. The sound pressure is based on the following conditions.  
1 Meter from the unit service cover surface, and 1.5 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.
- \*3. When unit is operating out of the allowable water temperature range, it won't strat normally and will alarm.
- \*4. For Max.pipe length more than 300m, please contact our professional engineer.

# Hi-FLEXi W Series



Hi-FLEXi W Series Heat Recovery		HP	52HP	54HP	56HP	58HP	60HP
Model Power Supply	AC 3Φ, 380 ~ 415V/50Hz(60Hz)		AVWW-494FKFW	AVWW-516FKFW	AVWW-534FKFW	AVWW-550FKFW	AVWW-570FKFW
Combination			AVWW-114FKFW	AVWW-136FKFW	AVWW-154FKFW	AVWW-170FKFW	AVWW-190FKFW
			AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW
			AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW	AVWW-190FKFW
Cooling Operation	Nominal Capacity*1	kW	145.5	152.0	157.0	162.0	168.0
		KBtu/h	496.4	518.6	535.7	552.7	573.2
	Nominal Input	kW	28.3	29.8	30.1	31.4	32.9
	EER		5.14	5.10	5.22	5.16	5.10
Heating Operation	Nominal Capacity*1	kW	163.5	171.0	176.0	182.0	189.0
		KBtu/h	557.9	583.5	600.5	621.0	644.9
	Nominal Input	kW	28.2	29.8	30.1	31.3	32.6
	COP		5.80	5.75	5.86	5.81	5.80
Outer Dimensions	H×W×D	mm	1030×820×560+ 1030×1040×560+ 1030×1040×560	1030×820×560+ 1030×1040×560+ 1030×1040×560	1030×1040×560+ 1030×1040×560+ 1030×1040×560	1030×1040×560+ 1030×1040×560+ 1030×1040×560	1030×1040×560+ 1030×1040×560+ 1030×1040×560
	Area	m²	1.6	1.6	1.7	1.7	1.7
Packing Dimensions	H×W×D	mm	1180×900×632+ 1180×1112×632+ 1180×1112×632	1180×900×632+ 1180×1112×632+ 1180×1112×632	1180×1112×632+ 1180×1112×632+ 1180×1112×632	1180×1112×632+ 1180×1112×632+ 1180×1112×632	1180×1112×632+ 1180×1112×632+ 1180×1112×632
Net Weight		Kg	663	663	737	738	738
Gross Weight		Kg	677	677	752	753	753
Sound Pressure Level *2	Cooling/Heating	dB(A)	58/60	60/62	58/60	58/60	58/60
Water-Side Heat Exchanger	Water Temperature*3	°C	10~45	10~45	10~45	10~45	10~45
	Water Flow Rate	L/min	501.7	525.0	540.0	553.3	580.0
	Water Pressure Drop	kPa	/	/	/	/	/
	Maximum Pressure Resistance	kgf/cm²	20	20	20	20	20
Refrigerant Connecting Pipes	Liquid Pipe	mm	Φ19.05(3/4)	Φ19.05(3/4)	Φ22.2(7/8)	Φ22.2(7/8)	Φ22.2(7/8)
	Low Pressure Gas Pipe	mm	Φ38.1(1-1/2)	Φ38.1(1-1/2)	Φ38.1(1-1/2)	Φ38.1(1-1/2)	Φ38.1(1-1/2)
	High/Low Pressure Gas Pipe	mm	Φ31.75(1-1/4)	Φ31.75(1-1/4)	Φ38.1(1-1/2)	Φ38.1(1-1/2)	Φ38.1(1-1/2)
Water Connecting Pipes	Water Pipe		DN32	DN32	DN32	DN32	DN32
	Thread of Connector		G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B
	Drain Pipe	mm	Outer Diameter 18				
MAX. Connectable Indoor Units	Recommended		40	40	40	40	40
	MAX.		64	64	64	64	64
MAX. Piping Length*4		m	300(500)	300(500)	300(500)	300(500)	300(500)
MAX. Height Difference Between ODU and IDU		m	50	50	50	50	50
MAX. Piping length Between IDUs with same SW Box		m	40	40	40	40	40

Notes:

- \*1. Operation Condition:  
Cooling:Indoor Temperature 27°CDB/19°C WB, Water Inlet/Outlet 30/35°C.  
Heating:Indoor Temperature 20°C DB/15°C WB, Water Inlet 20°C.
- \*2. The sound pressure is based on the following conditions.  
1 Meter from the unit service cover surface, and 1.5 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.
- \*3. When unit is operating out of the allowable water temperature range, it won't strat normally and will alarm.
- \*4. For Max.pipe length more than 300m, please contact our professional engineer.





# Hi-FLEXi H Series

- DC inverter-driven compressor
- Low noise technologies
- Compact and lightweight design



# Hi-FLEXi H Series

## Aviation level design of grille

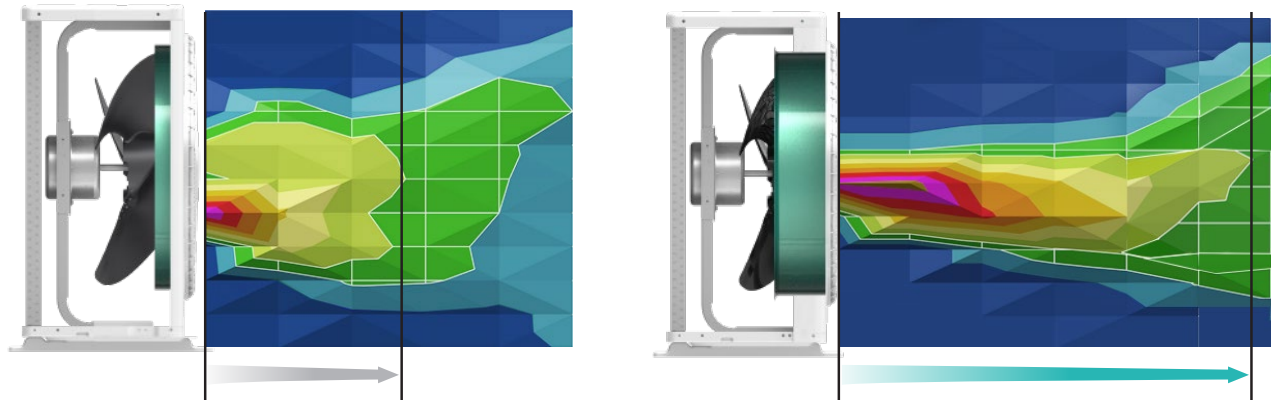
The Hi-Smart H series can create a high-quality quiet environment. The design of the grille follows the design concepts of aircraft engines which conform to aerodynamic principle and greatly reduced the noise.



## Efficient air channel

By extending the air duct near the fan, as shown in the figure below, the exhaust efficiency can be greatly improved. For the design of conventional air duct, the exhaust air will quickly mix with the surrounding air, resulting in increased resistance and reducing exhaust efficiency. Compared with the conventional design, the exhaust efficiency can be increased by 24% with extended air duct, thereby ensuring the smooth exhaust and stable operation of the machine.

24%  
Further Air  
Discharge



Air Discharge Distance (Conventional)

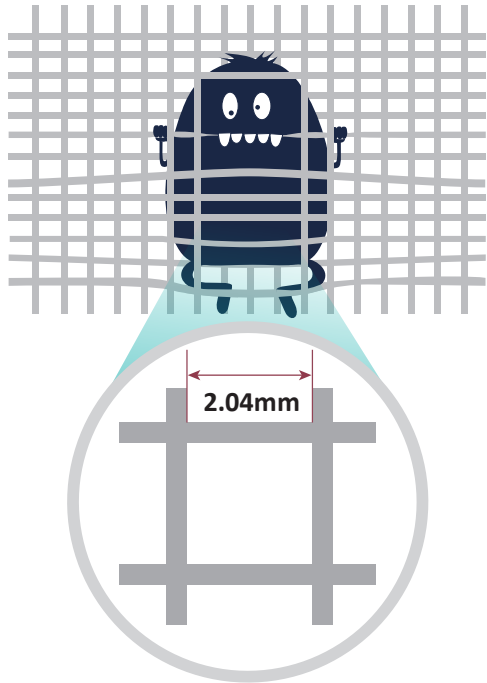
Air Discharge Distance (New)

1.5-2m/s 2-2.5m/s 2.5-3m/s

# Hi-FLEXi H Series

## Insect protection design

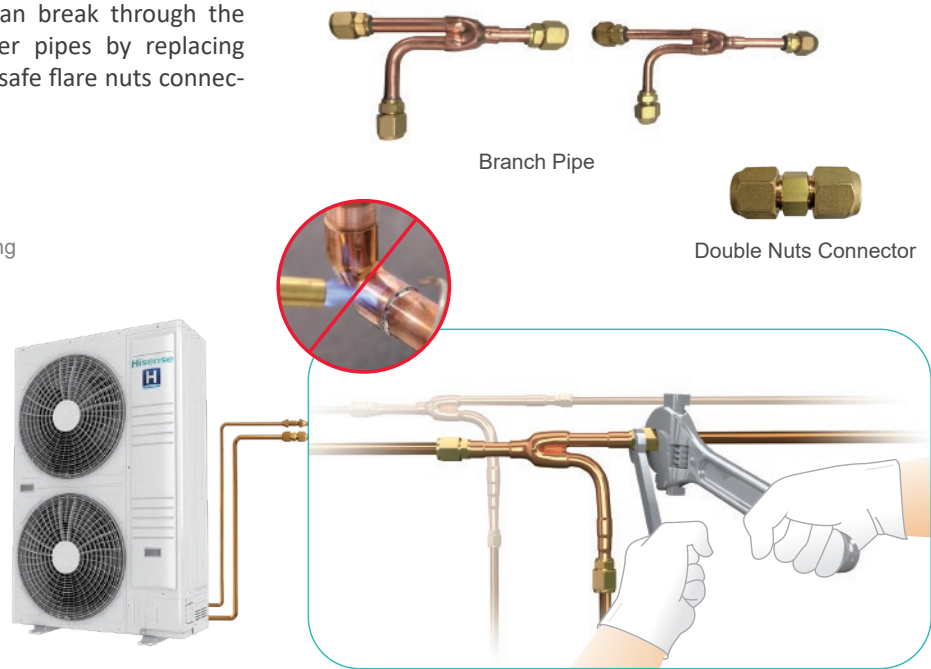
This design can prevent small animals such as insects or mice from entering the machine by mistake, thereby better protecting related electrical facilities.



## New refrigerant pipe connection with flare-nut branch pipe

The new Flare-nut branch pipes can break through the common way of refrigerant copper pipes by replacing welding processes with simple and safe flare nuts connections.

- Convenient and simple installation
- Saving installation time and costs
- Preventing leakages due to poor welding
- Safer operation without flames



# Hi-FLEXi H Series

## Flexible piping connection

Optional connection direction of the piping, which includes front, bottom, right and rear, makes installation more flexible and convenient.



## Compact size and light weight

Compact structure is designed for more convenient and flexible space design and installment, such as in corners of balconies and yards, on rooftops, etc.,. With smaller and slimmer body frame means that a lot of unnecessary weights are taken off and realizes lightweight design.



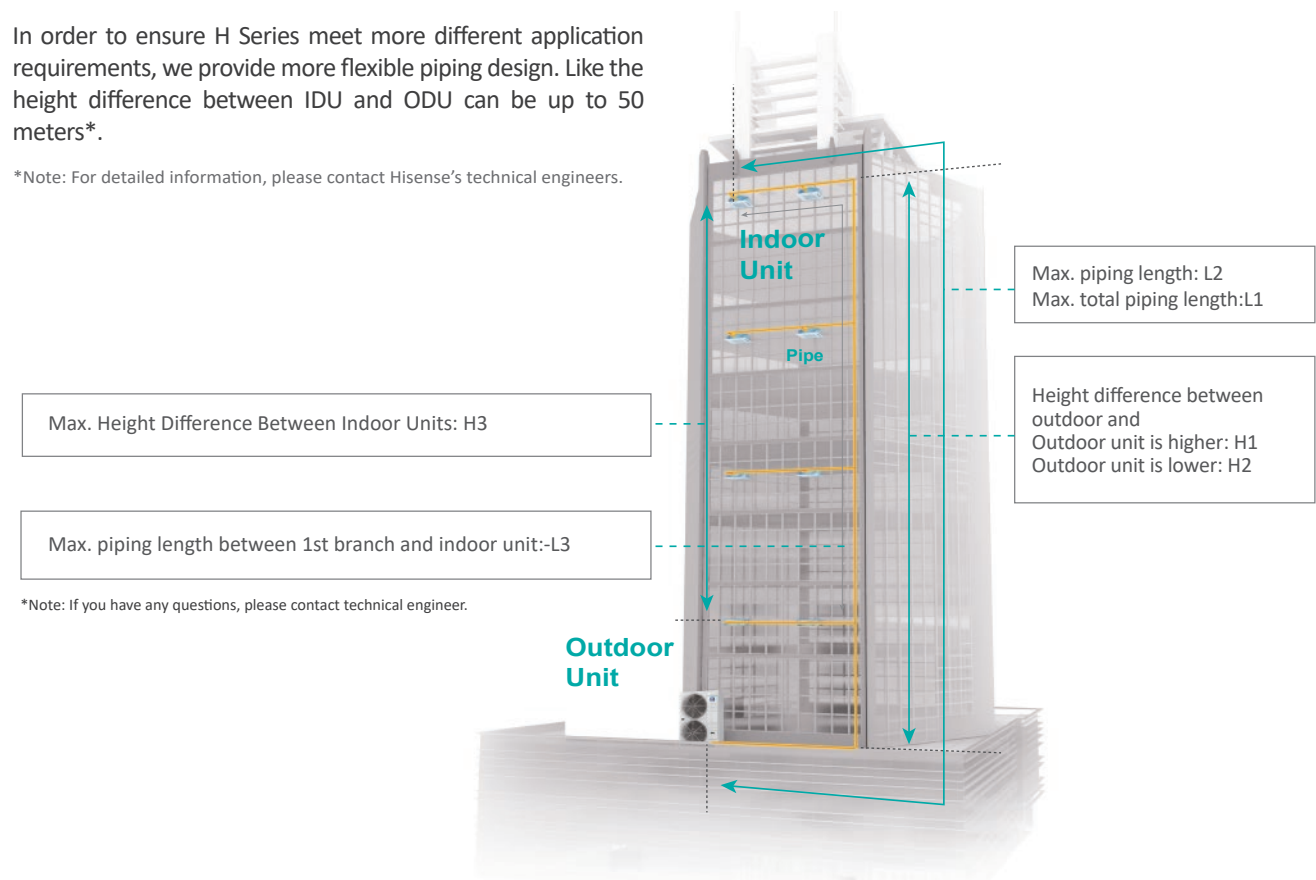


# Hi-FLEXi H Series




## Flexible piping length

In order to ensure H Series meet more different application requirements, we provide more flexible piping design. Like the height difference between IDU and ODU can be up to 50 meters\*.

\*Note: For detailed information, please contact Hisense's technical engineers.



\*Note: If you have any questions, please contact technical engineer.

POWER SUPPLY		AC1Φ 220~240V 50/60Hz			AC3Φ 380~415V 50/60Hz	AC1Φ 220~240V 50/60Hz	AC3Φ 380~415V 50/60Hz	AC3Φ 380~415V 50/60Hz AC3Φ 220V 60Hz
HP		3HP	4HP	5HP	5HP	4/5/6HP	5/6HP	8/10/12HP
Picture								
Total piping length-L1		30	40	60	60	120	120	250
longest length actual-L2		25	25	50	50	75	75	100
Longest length after first branch-L3		10	15	20	20	30	30	40
Level difference between indoor and outdoor unit up	Outdoor unit is higher-H1	20	20	20	30	30	30	50
	Outdoor unit is lower-H2	20	20	20	20	30	30	40
Level difference between indoor unit-H3		3.5	3.5	3.5	3.5	10	15	15

# Hi-FLEXi H Series

## Outdoor unit specifications



HP			3HP	4HP	5HP	5HP
Model			AVW-28HJFH	AVW-34HJFH	AVW-43HJFH	AVW-43HKFH
Power Supply			AC 220V-240V 1Φ 50/60Hz			AC 380V-410V 3Φ 50/60Hz
Cooling	Capacity	kW	8.0	10.0	12.5	12.5
		kBtu/h	27.3	34.1	42.7	42.7
	Power Input	kW	1.93	2.43	2.98	3.81
	EER	kW/kW	4.15	4.27	4.19	3.28
Heating	Capacity	kW	9.5	11.2	14.0	14.0
		kBtu/h	32.4	38.2	47.8	47.8
	Power Input	kW	2.37	3.01	4.15	3.68
Ventilation	Power Input	kW/kW	4.01	3.72	3.37	3.80
	COP					
Sound	Air Flow Rate	m³/min	46.5	69.0	78.0	75.0
Sound	Sound Power Level (Cooling/Heating)	dB(A)	50/52	53/55	54/57	55/57
Compressor	Type	-	Rotary			Scroll
Refrigerant	Type	-	R410A	R410A	R410A	R410A
	Pre-charged Quantity	kg	2.5	2.8	2.8	3.0
Weight	Net Weight	kg	65	73	78	84
	Gross Weight	kg	72	81	86	96
Dimensions	External (HxWxD)	mm	800x950x370	800x950x370	800x950x370	800x950x370
	Packing(HxWxD)	mm	930x1025x460	930x1025x460	930x1025x460	930x1025x460
Cabinet Color			Invery	Invery	Invery	Invery
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		inch	5/8	5/8	5/8	5/8
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Connectable Indoor Units		inch	3/8	3/8	3/8	3/8
	Quantity	PC	5	6	8	8
Piping Design	Total Capacity	-	50%-125%	50%-125%	50%-125%	50%-125%
	Height Difference Between ODU and IDU	m	20	20	20	30
		m	20	20	20	20
Operation Range	Height Difference Between IDUs	m	3.5	3.5	3.5	3.5
	Max. Piping Length	m	25	25	50	50
	Cooling	DB	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C
Operation Range	Heating	WB	-15°C~15.5°C	-15°C~15.5°C	-15°C~15.5°C	-15°C~15.5°C

### Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:  
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m  
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m
- The sound pressure level is based on following conditions:  
1.5m beneath the unit.  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

# Hi-FLEXi H Series

## Outdoor unit specifications



HP			4HP	5HP	6HP	5HP	6HP
Model			AVW-38HJFH	AVW-48HJFH	AVW-54HJFH	AVW-48HKFH	AVW-54HKFH
Power Supply			AC 220V-240V 1Φ 50/60Hz			AC 380V-415V 3Φ 50/60Hz	
Cooling	Capacity	kW	11.2	14.0	15.5	14.0	15.5
		kBtu/h	38.2	47.8	52.9	47.8	52.9
	Power Input	kW	2.60	3.46	4.21	3.92	4.44
	EER	kW/kW	4.31	4.05	3.68	3.57	3.49
Heating	Capacity	kW	12.5	16.0	18.0	16.0	18.0
		kBtu/h	42.7	54.6	61.4	54.6	64.4
	Power Input	kW	2.78	3.71	4.47	4.03	4.47
	COP	kW/kW	4.50	4.31	4.03	3.97	3.80
Ventilation	Air Flow Rate	m³/min	90.0	90.0	100.0	90.0	100.0
Sound	Sound Power Level (Cooling/Heating)	dB(A)	50/52	52/54	53/55	48/50	50/52
Compressor	Type	-	Rotary			Scroll	
Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A
	Pre-charged Quantity	kg	3.8	3.8	4.1	3.6	3.6
Weight	Net Weight	kg	93	95	97	103	103
	Gross Weight	kg	111	111	111	118	118
Dimensions	External (HxWxD)	mm	1380x950x370	1380x950x370	1380x950x370	1380x950x370	1380x950x370
	Packing(HxWxD)	mm	1520x1025x460	1520x1025x460	1520x1025x460	1520x1025x460	1520x1025x460
Cabinet Color			Invory	Invory	Invory	Invory	Invory
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		inch	5/8	5/8	5/8	5/8	5/8
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	3/8	3/8	3/8	3/8	3/8
Connectable Indoor Units	Quantity	PC	9	11	11	11	11
	Total Capacity	-	50%-150%	50%-150%	50%-150%	50%-150%	50%-150%
Piping Design	Height Difference Between ODU and IDU	m	30	30	30	30	30
		m	30	30	30	30	30
	Height Difference Between IDUs	m	10	10	10	10	10
	Max. Piping Length	m	75	75	75	75	75
Operation Range	Cooling	DB	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C
	Heating	WB	-20°C~15.5°C	-15°C~15.5°C	-15°C~15.5°C	-15°C~15.5°C	-15°C~15.5°C

Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:  
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m  
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m
2. The sounf pressure level is based on following conditions:  
1.5m beneath the unit.  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

# Hi-FLEXi H Series



HP			8HP	10HP	12HP	8HP	10HP	12HP
Model			AVW-76HKFH	AVW-96HKFH	AVW-114HKFH	AVW-76H9FH	AVW-96H9FH	AVW-114H9FH
Power Supply			AC 220V-240V 1Φ 50/60Hz			AC 220V 3Φ 60Hz		
Cooling	Capacity	kW	22.4	28.0	33.5	22.4	28.0	33.5
		kBtu/h	76.5	95.6	114.3	76.5	95.6	114.3
	Power Input	kW	6.36	7.80	10.60	6.30	8.30	10.70
	EER	kW/kW	3.52	3.59	3.16	3.56	3.37	3.13
Heating	Capacity	kW	25.0	31.5	37.5	25.0	31.5	37.5
		kBtu/h	85.3	107.5	128	85.3	107.5	128
	Power Input	kW	5.81	7.00	10.11	5.9	7.8	9.9
	COP	kW/kW	4.30	4.50	3.71	4.24	4.04	3.79
Ventilation	Air Flow Rate	m³/min	150.0	163.0	163.0	121.0	150	163
Sound	Sound Power Level (Cooling/Heating)	dB(A)	58/60	59/61	59/61	53/55	55/58	56/61
Compressor	Type	-	Scroll					
Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A	R410A
	Pre-charged Quantity	kg	7.0	9.0	9.0	5.0	5.5	6.5
Weight	Net Weight	kg	160	170	170	168	168	171
	Gross Weight	kg	179	194	194	179	179	182
Dimensions	External (HxWxD)	mm	1650x1100x390	1650x1100x390	1650x1100x390	1650x1100x390	1650x1100x390	1650x1100x390
	Packing(HxWxD)	mm	1748x1151x500	1748x1151x500	1748x1151x500	1748x1151x500	1748x1151x500	1748x1151x500
Cabinet Color			Invory	Invory	Invory	Invory	Invory	Invory
Ref. Piping	Gas	mm	Φ22.2	Φ25.4	Φ25.4	Φ19.05	Φ22.2	Φ25.4
		inch	7/8	1/1	1/1	3/4	7/8	1/1
	Liquid	mm	Φ12.7	Φ12.7	Φ12.7	Φ9.53	Φ12.7	Φ12.7
		inch	1/2	1/2	1/2	3/8	1/2	1/2
Connectable Indoor Units	Quantity	PC	15	17	19	10	10	10
	Total Capacity	-	50%-150%	50%-150%	50%-150%	50%-150%	50%-150%	50%-150%
Piping Design	Height Difference Between ODU and IDU	m	30	30	30	30	30	30
		m	30	30	30	30	30	30
	Height Difference Between IDUs	m	15	15	15	15	15	15
	Max. Piping Length	m	75	75	75	75	75	75
Operation Range	Cooling	DB	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C	-5°C~46°C
	Heating	WB	-20°C~15.5°C	-20°C~15.5°C	-20°C~15.5°C	-20°C~15.5°C	-20°C~15.5°C	-20°C~15.5°C

Notes:

1. Rated cooling capacity and rated heating capacity are tested in the following conditions:  
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m  
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m
2. The sounf pressure level is based on following conditions:  
1.5m beneath the unit.  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.





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	10.0
kBtu/h		5	7	9	12	14	17	19	22	24	27	30	38	48	54	76	96
4-Way Cassette Type				●	●	●		●	●	●	●	●	●	●	●		
Mini 4-Way Cassette Type		●	●	●	●	●	●	●									
1-Way Cassette Type			●	●	●	●		●		●							
2-Way Cassette Type			●	●	●	●		●		●	●	●	●	●	●		
Console Type		●	●	●	●	●	●										
Low-height Ceiling Ducted Type		●	●	●	●	●	●	●	●	●							
Ceiling Ducted Type (High Static Pressure)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wall Mounted Type			●	●	●	●	●	●	●	●							
Ceiling & Floor Type							●	●	●	●	●	●	●	●			
Floor Concealed Type				●		●		●		●							
Ventilation Solution				●	●		●	●		●							



# Functions & Accessories

Installation & Maintenance



**1200mm pump head**

The drain pump helps smooth drainage of condensate from the indoor unit. The higher pump head is, the higher the safety of the drainage system, especially in large systems with a large number of indoor units.



**Self-diagnosis**

The self-diagnosis function in indoor units smartly determines and analyses the problems occurred, to provide troubleshooting guide. It can be displayed and tracked on controllers, and PCB of unit.



**Compact size**

The compact size of the indoor unit provides greater installation flexibility, especially in tight spaces.



**Easy cleaning**

Because of the smooth flat surfaces, it's easy to clean with dragging cloths across on indoor units and prevents heavy dust accumulation.



**Large capacity range**

Indoor unit series with large capacity range offers more capacity options to closely satisfy various indoor loads.



**Auto restart**

The indoor unit with automatic restart function will automatically restart or restore to the previous mode in the default mode after the power is cut off abnormally.



**Low temperature cooling**

Target temperature of indoor units can be set as low as 16°C.



**Wireless receiver**

Indoor units compatible to an optional wireless receiver to enable remote control when an wireless control is not the standard controller of the unit



**Humidity sensor (optional)**

Indoor units compatible with humidity sensor accessory could access to Auto Dehumidification function on the indoor unit.



**Hi-Motion (optional)**

Hi-Motion or Motion sensor is an human sensor accessory which enables auto ON/OFF, auto fan and temperature setting based on human presence.



**Remote control**

Can be remotely controlled using a wireless controller with LCD display



**Silent operation**

Indoor units that offers very low sound pressure levels during operation.



**Adjustable louver's position**

Louver position of indoor units can be adjusted into several different angles.



**Swing louver**

Louvers of indoor unit automatically swings up and down to evenly distribute air across the room.



**Fan speed**

Selectable Fan Speeds are available.



**Auto fan speed**

Automatically controls rotation speed of fan depending on indoor load to achieve efficiency and comfort simultaneously.



**Fresh air introduction**

Fresh air can be introduced into rooms with an optional adapter or direct connection to the air return segment of the unit.



**Standard filter included**

As a washable long life type, the unit the filter is built in unit return air as a standard part.



**Optional filter**

As a washable long life type, the filter can be used as an option accessory.

Air Quality

Air Quality

Special Function

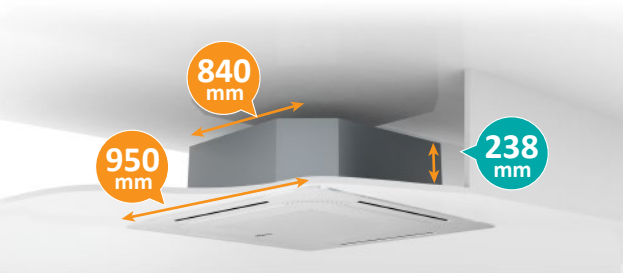




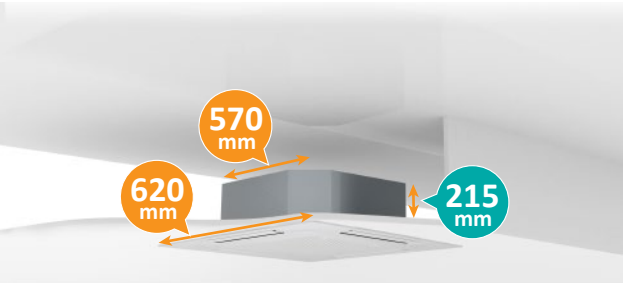
# Cassette Type

## Compact and classy design

The 4 way cassette is slim as 238mm and mini 4-way cassette is slim with 215mm, suitable for narrow ceiling spaces. The straight return air grille are replaced with new fashion design, upgrading taste and classiness of any interior aesthetic.



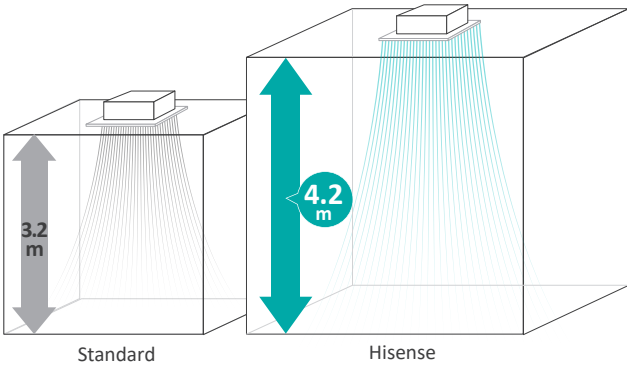
4-Way Cassette Type



Mini 4-way Cassette Type

## Higher range installation

Air from the cassette can flow down from ceiling heights as high as 4.2m. And suitable for working with motion sensor.

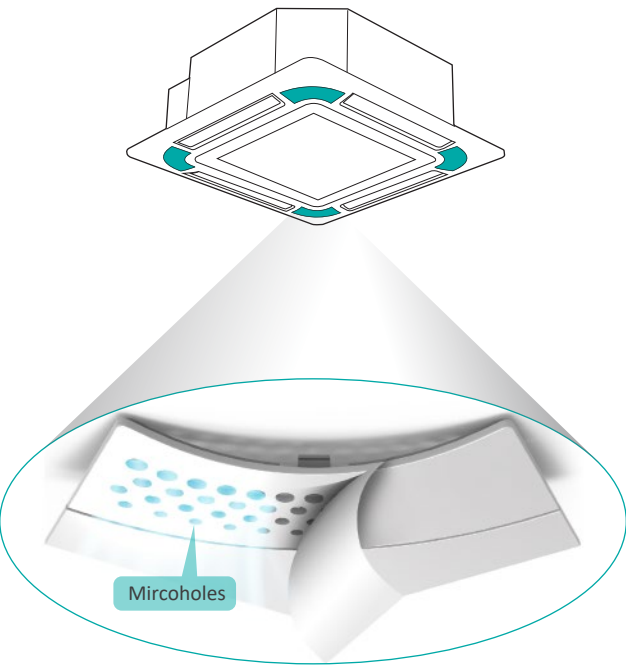


Standard

Hisense

## Breeze mode

In new designed breeze mode, the air is blown out from the micro whole in the panel. To avoid the cool air towards your face or body directly.



Mircoholes

## Super compact flat panel

With the ultra-thin panel installed, it only protrudes for 10 mm and perfectly integrates with the ceiling.

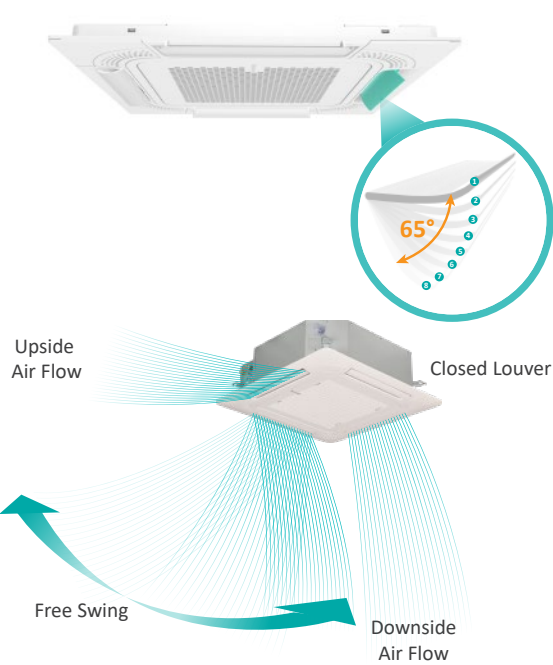


10 mm

# Cassette Type

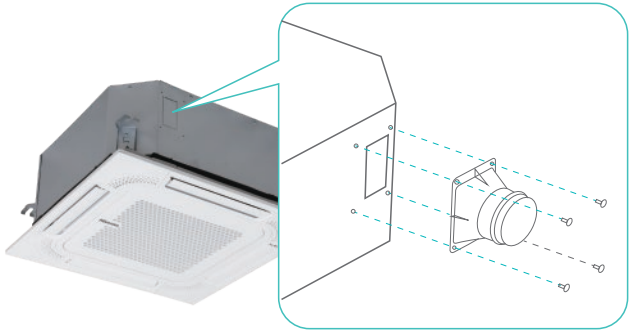
## Independent louvers control

All the louvers on the cassette units can be adjusted independently in any 8 positions, from 0° (closed) to 65° for more precise airflow direction, maximizing user's comfort and adapting to various space layouts.



## Fresh air intake (optional)

In order to satisfy the fresh air intake function, the duct adapter as the optional part equips at the mini 4-way cassette type and 4-way cassette type.

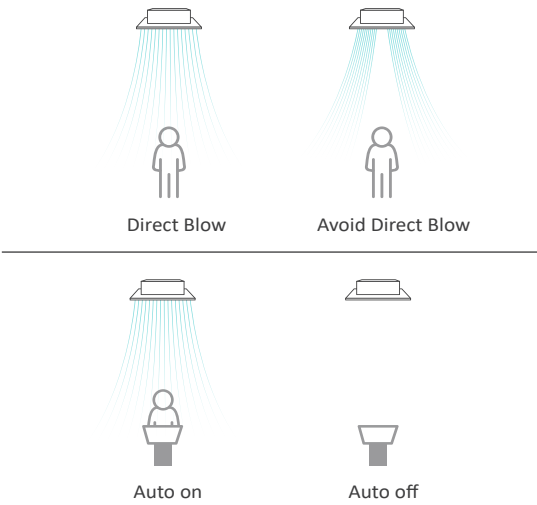
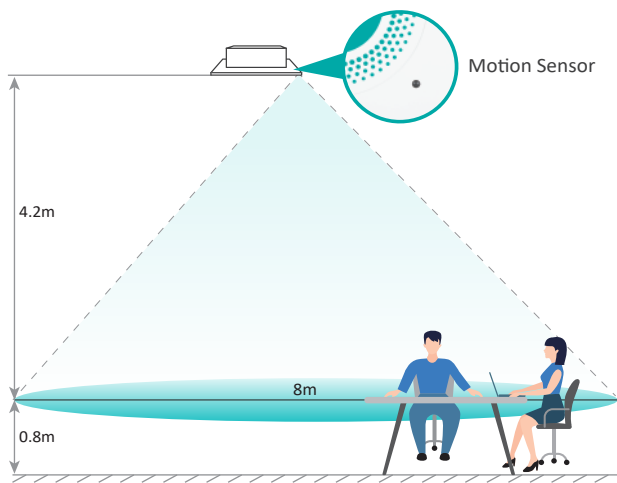


## Humidity sensor(optional)

Automatic dehumidification can be achieved by choosing humidity sensor, setting humidity range from 35% to 90% and adjusting 1% accuracy.

## Motion sensor (optional)

Motion Sensor can provide more comfortable to customer, and realize energy saving.  
1) With the sensor, indoor unit can ON or OFF automatic when people in the room or leave.  
2) The location of people can be detected by sensor. Then the direction of the airflow can be set, to avoid people or blow directly at people.  
3)With detect the number of people changes, the setting temperature is automatically changed.



## Cassette Type

[illegible]

NOTES:

1. The nominal cooling capacity and heating capacity are based on 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 following conditions:1.5m beneath the unit.  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

## Cassette Type



Model				AVC-05HJFA	AVC-07HJFA	AVC-09HJFA	AVC-12HJFA	AVC-15HJFA	AVC-17HJFA	AVC-19HJFA
Power Supply				AC 1Φ,220~240V/50Hz/60Hz						
Capacity	Cooling	kW		1.5	2.2	2.8	3.6	4.5	5.0	5.6
		Btu/h		5,100	7,480	9,520	12,240	15,300	17,000	19,040
	Heating	kW		2.0	2.5	3.3	4.2	5.0	5.6	6.3
		Btu/h		6,800	8,500	11,220	14,280	17,000	19,040	21,420
Power Input	Cooling	W		80	80	80	80	80	80	80
	Heating	W		80	80	80	80	80	80	80
Sound Pressure		dB(A)		30/29/28/26	30/29/28/26	32/30/28/26	34/32/29/26	38/36/31/28	42/39/36/31	45/42/38/34
Airflow Rate		m³/min		7.2/6.5/6.2/5.6	7.2/6.5/6.2/5.6	7.8/7.2/6.5/5.8	8.2/7.2/6.5/5.8	9.3/8.7/7.1/6.7	11.0/9.5/8.7/7.1	12.5/10.8/9.3/8.0
Piping	Connection Type		-	Flare-nut Connection(with Flare Nuts)						
	Liquid	mm		Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		inch		1/4	1/4	1/4	1/4	1/4	1/4	1/4
	Gas	mm		Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
		inch		1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Condensate Drain		mm	O.D.32						
Weight	Net Weight		kg	14.5	14.5	14.8	14.8	15.8	15.8	15.8
	Gross Weight		kg	17.3	17.3	17.6	17.6	18.6	18.6	18.6
Dimensions	External	H	mm	215	215	215	215	215	215	215
		W	mm	570	570	570	570	570	570	570
		D	mm	570	570	570	570	570	570	570
Model		-	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK
Panel Colour		-	Neutral White							
Decoration Panel	Body Dimensions	H	mm	37	37	37	37	37	37	37
		W	mm	620	620	620	620	620	620	620
		D	mm	620	620	620	620	620	620	620
	Net Weight		kg	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Gross Weight		kg	4.5	4.5	4.5	4.5	4.5	4.5	4.5

NOTES:

1. The nominal cooling capacity and heating capacity are based on 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 following conditions:1.5m beneath the unit.  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.



# 1-Way Cassette Type

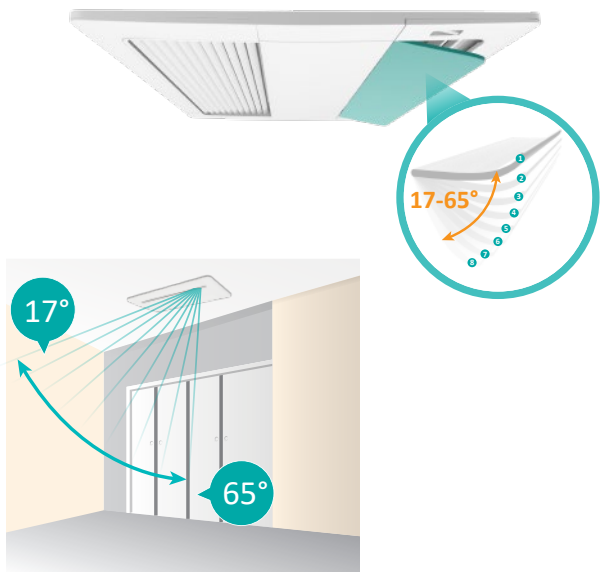
## Modern classic style panel

Inspired from ceiling concealed ducted units and integrated with the design of cassette units to present 1 way cassette. High class appearance blends into common white plaster ceilings and practical solution for cornered floor layouts, hotel rooms and residential applications.



## Wide angle of air supply

Louvers are consist of horizontal and vertical flaps. They can supply air evenly to the edges of any rooms with wider opening angle from 17° to 65°.



## Space saving

Slim body height of 192mm fits in limited ceiling spaces commonly seen in budget hotels and residential applications.



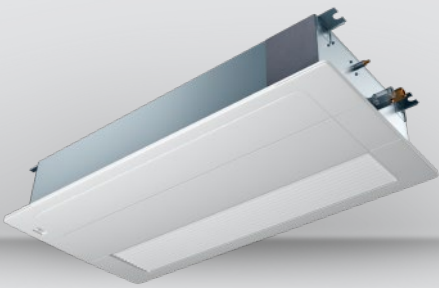
## Easier maintain

The electric box of the cassette is designed and placed beneath the panel. When operate on PCB, it just needs to open the panel and the cover of box. It's easy to take the service, maintenance and commissioning.



# 1-Way Cassette Type

## 1-Way Cassette Type



Model			AVY-07UXJSJA	AVY-09UXJSJA	AVY-12UXJSJA	AVY-14UXJSJA	AVY-18UXJSKA	AVY-24UXJSKA	
Power Supply			AC 1Φ,220~240V/50Hz/60Hz						
Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.6	7.1	
		Btu/h	7,500	9,600	12,300	13,600	19,100	24,200	
	Heating	kW	2.5	3.2	4.0	4.5	6.3	8.0	
		Btu/h	8,500	10,900	13,600	15,400	21,500	27,300	
Power Input	Cooling	W	14	14	24	34	34	74	
	Heating	W	14	24	34	44	44	94	
Sound Pressure		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	
Airflow Rate		m³/min	6.2/5.9/5.6/ 5.1/4.8/4.6	6.6/6.2/5.6/ 5.1/4.8/4.6	8.3/7.3/6.8/ 6.2/5.6/5.1	8.3/7.3/6.8/ 6.2/5.6/5.1	12.1/9.9/8.8/ 8.2/7.8/6.6	15.6/12.6/11.2/ 9.9/8.4/7.1	
Connection Type		-	Flare-nut Connection(with Flare Nuts)						
Piping	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	
		inch	1/4	1/4	1/4	1/4	1/4	3/8	
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	
		inch	1/2	1/2	1/2	1/2	5/8	5/8	
	Condensate Drain		mm	O.D.32					
Weight	Net Weight	kg	19	19	20	20	24	24	
	Gross Weight	kg	23	23	24	24	29	29	
Dimensions	External	H mm	192	192	192	192	192	192	
		W mm	910	910	910	910	1180	1180	
		D mm	470	470	470	470	470	470	
Decoration Panel	Model		-	HP-D-NA	HP-D-NA	HP-D-NA	HP-D-NA	HP-E-NA	HP-E-NA
	Panel Colour		-	Neutral White					
	Body Dimensions	H mm	55	55	55	55	55	55	
		W mm	1100	1100	1100	1100	1370	1370	
		D mm	550	550	550	550	550	550	
	Net Weight		kg	5	5	5	5	6	6
	Gross Weight		kg	8	8	8	8	10	10

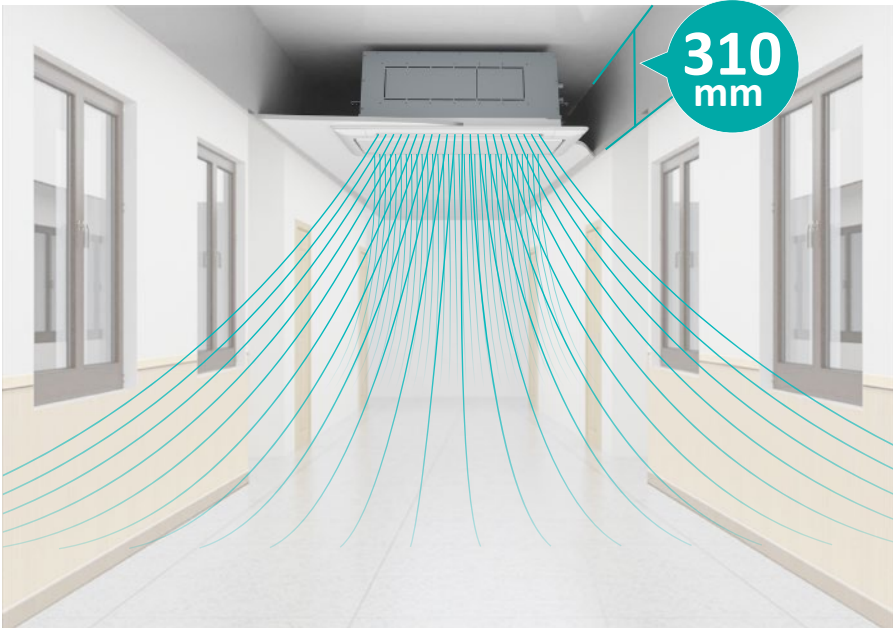
### NOTES:

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 following conditions.  
1.5 Meters Beneath the Unit.  
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

## 2-Way Cassette Type

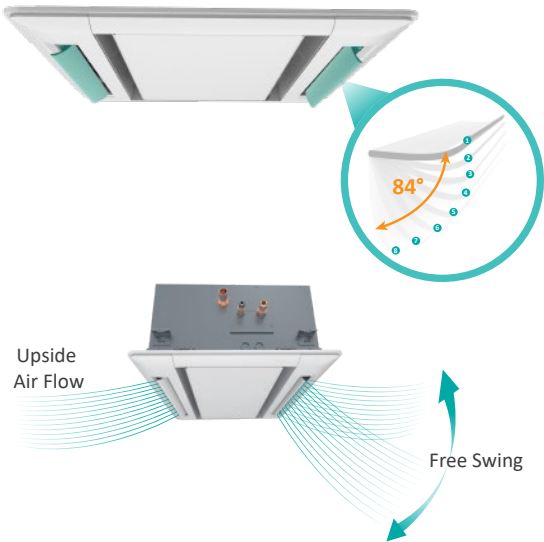
### Compact and classy design

The slim structure of the cassette having height as low as 298mm can be installed in ceiling spaces with a minimum of 310mm. Narrow corridors or zoned spaces are best fitted with 2 way cassette due to its compact design having 1.42m.



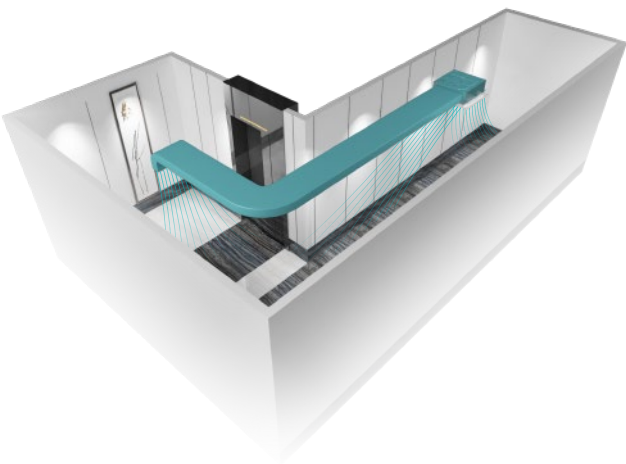
### Individual louver control

Each louver's opening angles can be controlled individual-ly, with total of 8 opening angle from 27° to 84°. It can meet the requirement of narrow corridors with heigh ceiling, and supply the warm air supply during winter seasons.



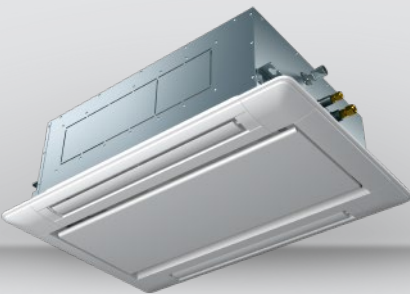
### Branch discharge option

For the irregular room, branch discharge can extend air distribution area to the special corners without additional indoor units.



## 2-Way Cassette Type

### 2-Way Cassette Type



Model			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
Power Supply			AC 1Φ,220~240V/50Hz/60Hz										
Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0
		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	kW	2.8	3.3	4.0	4.9	6.5	8.0	9.0	10.0	13.0	16.0	18.0
		Btu/h	9,600	11,300	13,600	16,700	22,200	27,300	30,700	34,100	44,400	54,600	61,400
Power Input	Cooling	W	14	14	14	24	34	44	64	74	84	104	114
	Heating	W	14	14	14	24	34	44	64	74	84	104	114
Sound Pressure		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
Airflow Rate		m³/min	10.0/8.5/ 7.2/6.0	11.0/9.4/ 8.2/6.6	12.0/10.5/ 8.9/7.5	15.0/13.2/ 11.5/9.9	17.0/14.9/ 13.0/11.2	19.0/16.4/ 14.3/12.3	21.0/18.4/ 15.6/12.6	22.0/19.3/ 16.3/13.1	30.0/26.4/ 23.1/19.8	35.0/30.8/ 26.9/21.1	37.0/32.5/ 28.4/24.1
Connection Type		-	Flare-nut Connection(with Flare Nuts)										
Piping	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm	O.D.32										
Weight	Net Weight	kg	22	22	22	24	24	24	24	24	39	39	39
	Gross Weight	kg	28	28	28	30	30	30	30	30	47	47	47
Dimensions	External	H mm	298	298	298	298	298	298	298	298	298	298	298
		W mm	860	860	860	860	860	860	860	860	1420	1420	1420
		D mm	630	630	630	630	630	630	630	630	630	630	630
Decoration 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
	Panel Colour	-	Neutral White										
	Body Dimensions	H mm	30	30	30	30	30	30	30	30	30	30	30
		W mm	1100	1100	1100	1100	1100	1100	1100	1100	1660	1660	1660
		D mm	710	710	710	710	710	710	710	710	710	710	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
	Gross Weight	kg	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	17.8	17.8	17.8

#### NOTES:

- 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
- 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.



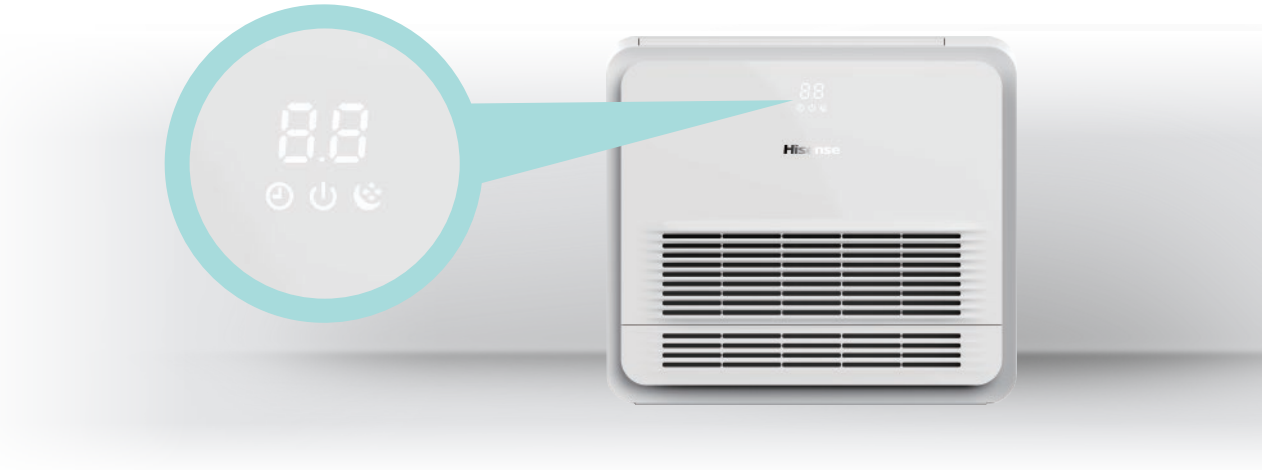
# Console Type



# Console Type

## Stylish design

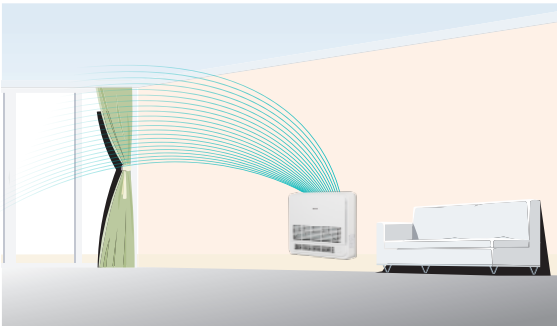
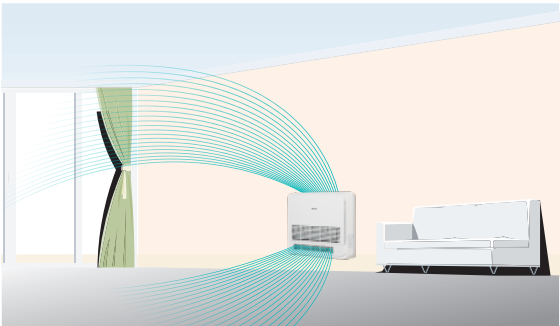
With smooth white cover, LED shown and temperature display, the console unit is an super stylish air-conitioning. Suitable for the residential or commercial applications which need an unit installed on or close to the floor.



## Multiple blowing types

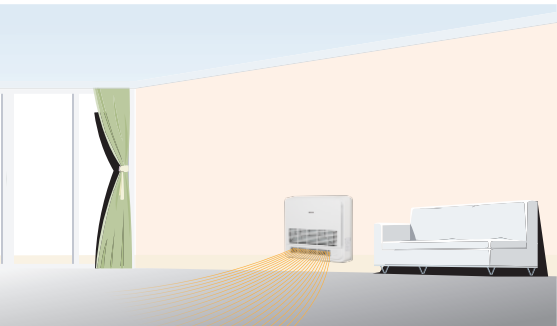
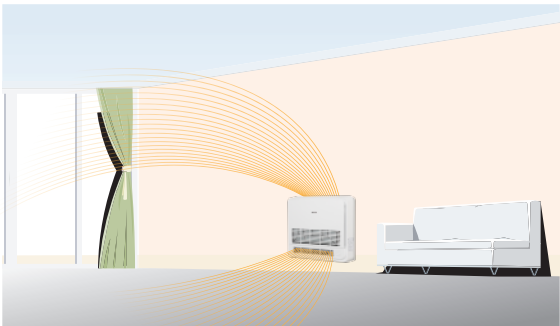
### Cooling mode

The unit adopts the stereo cooling mode that can reach the setting temperature rapidly.



### Heating mode

Air supply through the below louver achieves floor heating effect and increases the comfortability.



# Console Type

## Flexible installation options

The unit can stand directly on the floor, or hanging on the wall.  
According to the interior decoration style, the machine can choose surface mounted, flush mounted, concealed mounted.



Standing on the floor

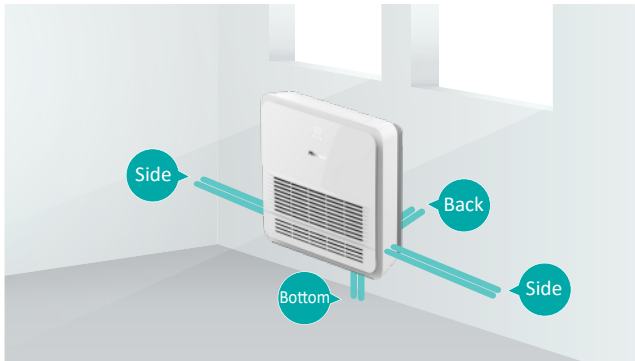


Hanging on the wall



## Flexible piping connection

Both Refrigerant and drainage pipings are freely to connect in any direction including two sides(L or R) and bottom and back. An additional direction to the back of the unit suitable for pipes which passing through walls.



# Console Type

## Console Type

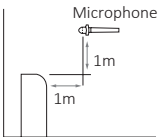


Model			AVK-05HJFCAA	AVK-07HJFCAA	AVK-09HJFCAA	AVK-12HJFCAA	AVK-15HJFCAA	AVK-17HJFCAA
Power Supply			AC 1Φ,220V~240V/50Hz/60Hz					
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.0
		Btu/h	5,100	7,500	9,600	12,300	15,300	17,100
	Heating	kW	2.0	2.5	3.3	4.2	5.0	5.6
		Btu/h	6,800	8,500	11,200	14,300	17,000	19,100
Power Input	Cooling	W	10	11	12	14	18	23
	Heating	W	10	11	12	14	18	23
Sound Pressure		dB(A)	32/30/29/28/26/24	34/32/31/29/27/26	36/35/32/31/29/27	39/36/34/31/29/27	41/39/37/35/33/32	44/43/41/39/37/36
Airflow Rate		m³/min	6.0/5.7/5.3/	7.4/7.0/6.4/	8.0/7.4/7.0/	8.2/7.6/6.8/	9.0/8.5/7.8/	10.1/9.7/9.0/
			5.1/4.7/4.5	6.0/5.6/5.3	6.4/6.0/5.6	6.2/5.7/5.3	7.2/6.6/6.4	8.5/7.9/7.3
Panel Colour		-	Pure White	Pure White	Pure White	Pure White	Pure White	Pure White
Piping	Connection Type		-	Flare-nut Connection(with Flare Nuts)				
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35
		inch	1/4	1/4	1/4	1/4	1/4	1/4
	Gas	mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7
		inch	1/2	1/2	1/2	1/2	1/2	1/2
	Condensate Drain		mm	O.D.32				
Weight	Net Weight		kg	16.1	16.1	16.1	17.4	17.4
	Gross Weight		kg	20.6	21.1	21.1	21.5	21.5
Dimensions	External	H	mm	630	630	630	630	630
		W	mm	700	700	700	700	700
		D	mm	225	225	225	225	225

### NOTES:

- 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)

- The sound pressure level is based on following conditions:  
It is measured in anechoic room. Operation noise differs with operation and ambient conditions.  
Location of Microphone:





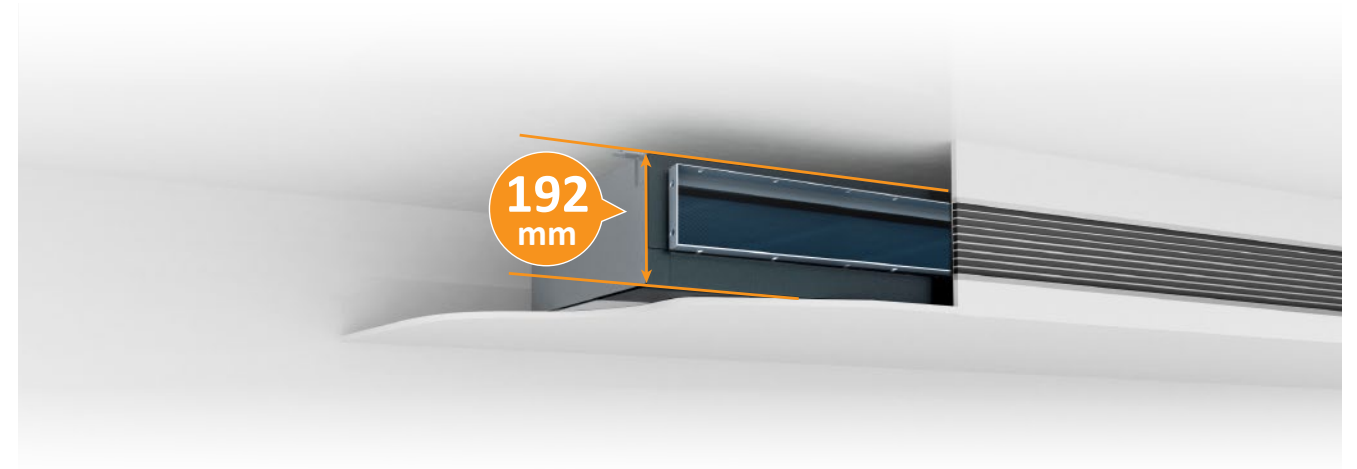
## Ceiling Ducted Type



## Ceiling Ducted Type

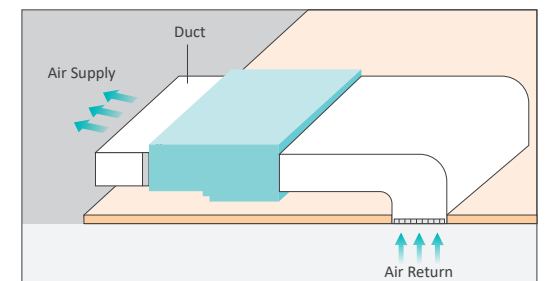
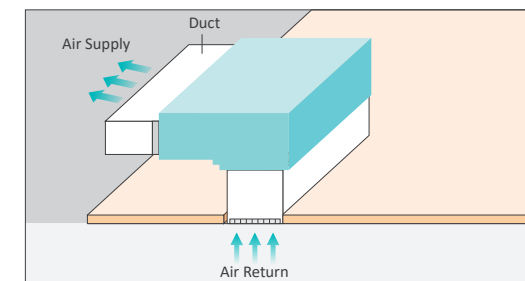
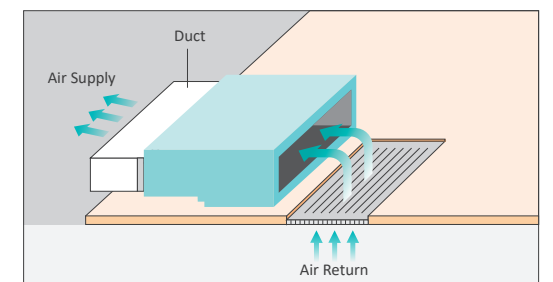
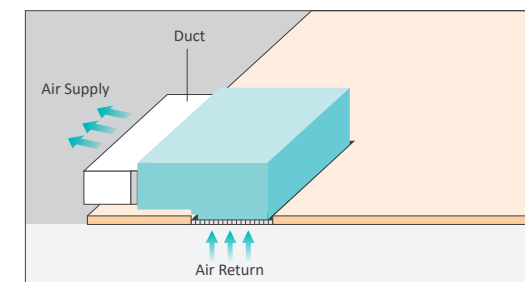
### Space saving

Concealed Low Height Ducted unit is as slim as 192mm, and the width can be below until 770mm, which fitting to the narrowest ceiling spaces. Save ceiling spaces for higher room height.



### Flexible air supply and return

Air from indoor units can be discharged directly with louvers(\*1 3D Airflow Panel is recommended) or by duct connections. Whereas ducted or ceiling return air from rear or bottom of the indoor unit is also possible\*2, when ceiling areas are very limited.



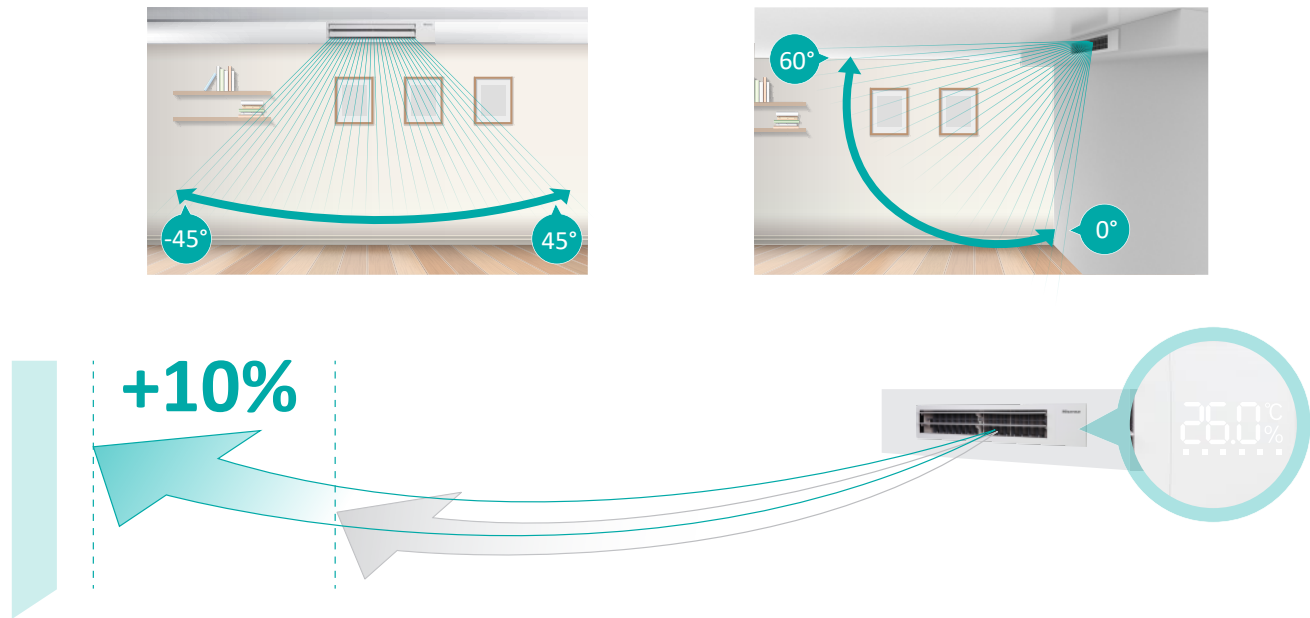
\*1: 3D Airflow Panel is an optional accessory only for Low Height Ducted Unit. For more information please refer to (Accessory:3D Air-flow Panel)

\*2: Removing and replacing the factory installed metal panels may impose to higher sound pressure level by 3 to 4dB(A).

# Ceiling Ducted Type

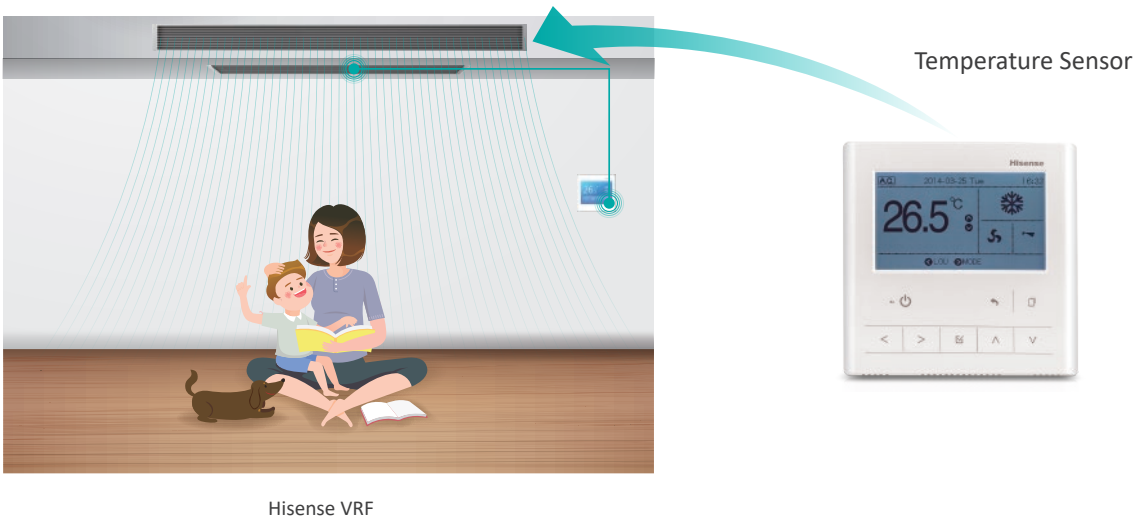
## 3d-airflow

The 3D airflow panel is an accessory for ceiling ducted unit, with LED temperature and humidity display. With the horizontal louver and vertical louver, the panel can offer wide air flow coverage to keep every corners of your room cool or warm in any seasons of the year.



## Smart & precise temperature control

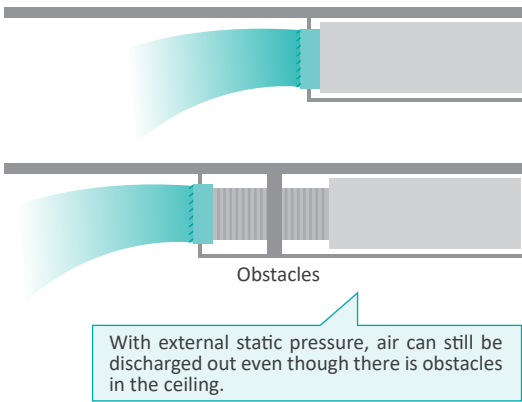
To make the human height area of the room cools or warms to user's ideal temperature setting, the unit has the remote temperature control technology. When people choose the controller built in temperature sensor, that temperature signals can be sent to the unit for a more precise supplying temperature.



# Ceiling Ducted Type

## Adjustable static pressure\*3

Sometimes the static pressures in free supply applications would create unnecessary air-blowing noises. The fan's static pressure are made adjustable to suit different applications more precisely with smaller adjustment steps.



\*3: Low Height,Low Static and High Static Pressure Ducted Unit have different number of static pressure choices, please refer to the specifications for more detail information.

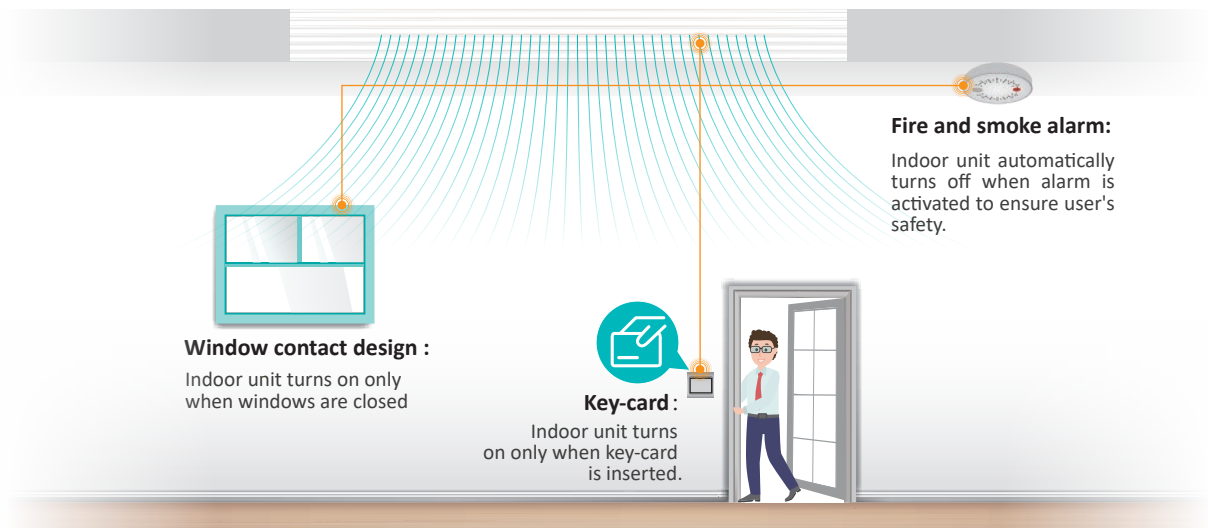
## New improved bendable filters

Standard filters that comes with Low Height Ducted Units are now improved to be bendable by improving the material's malleability to improve installation flexibility in narrow ceiling height and restricted spaces.



## Various device connection options

Third party devices and sensors to control the power supply is possible with dry contact connections to the indoor unit. Devices like Hotel room key card, window contact and fire alarms can be connected simultaneously.





# Ceiling Ducted Type



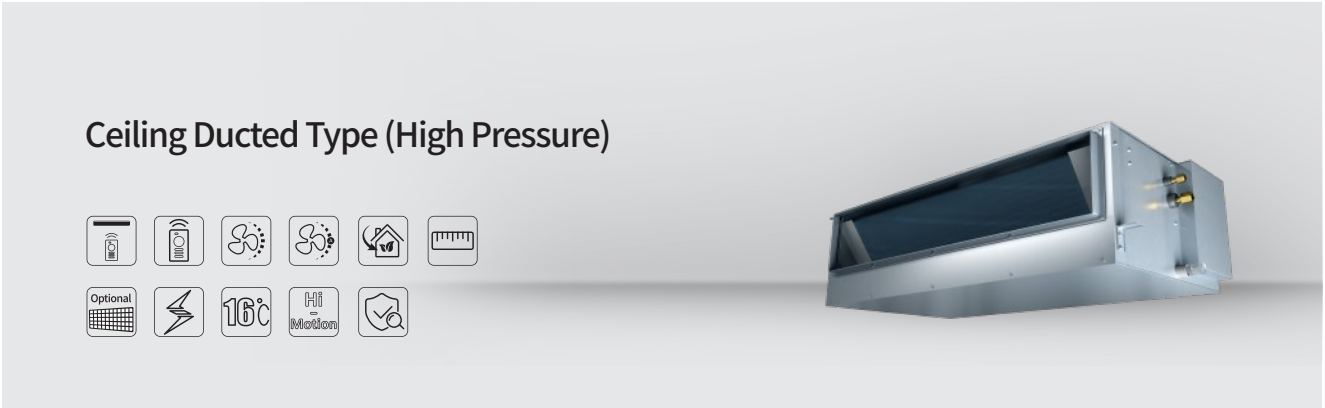
Model			AVE-05 HCFRL	AVE-07 HCFRL	AVE-09 HCFRL	AVE-12 HCFRL	AVE-15 HCFRL	AVE-17 HCFRL	AVE-19 HCFRL	AVE-22 HCFRL	AVE-24 HCFRL
Power Supply			AC 1Φ,220V~240V/50Hz/60Hz								
Capacity	Cooling	kW	1.7	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
		Btu/h	5,800	7,500	9,600	12,300	15,300	17,100	19,100	21,500	24,200
	Heating	kW	1.9	2.5	3.2	4.0	5.0	5.6	6.3	7.1	8.0
		Btu/h	6,500	8,500	11,300	13,600	17,100	19,100	21,500	24,200	27,300
Power Input	Cooling	W	50	50	70	70	80	80	100	120	120
	Heating	W	50	50	70	70	80	80	100	120	120
Sound Pressure		dB(A)	29/24/22	29/24/22	35/25/23	35/25/23	36/25/23	36/25/23	35/25/23	39/26/25	39/26/25
Airflow Rate		m³/min	7/5.5/4.7	7/5.5/4.7	9/5.7/4.8	9/5.7/4.8	12/6.3/5.5	12/6.3/5.5	13.5/8/7.7	18/9.3/8.7	18/9.3/8.7
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Piping	Connection Type		Flare-nut Connection(with Flare Nuts)								
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53
		inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8
	Gas	mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88	Φ 15.88
		inch	1/2	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	Condensate Drain		O.D.32								
Weight	Net Weight	kg	16	16	17	17	21	21	25	26	26
	Gross Weight	kg	19	19	20	20	24	24	29	29	29
Dimensions	External	H mm	192	192	192	192	192	192	192	192	192
		W mm	700	700	700	700	910	910	1180	1180	1180
		D mm	447	447	447	447	447	447	447	447	447

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



Model			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
Power Supply			AC 1Φ,220V~240V/50Hz														
Capacity	Cooling	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
		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
	Heating	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
		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
Power Input	Cooling	W	110	110	150	150	150	150	150	190	300	300	300	430	430	1030	1280
	Heating	W	110	110	150	150	150	150	150	190	300	300	300	430	430	1030	1280
Sound Pressure		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
Airflow Rate		m³/min	8.0/7.0/6.0	8.0/7.0/6.0	13.0/11.0/9.0	13.0/11.0/9.0	15.0/13.0/11.0	15.0/13.0/11.0	16.0/14.0/12.0	16.0/14.0/12.0	26.7/23.3/19.1	26.7/23.3/19.1	26.7/23.3/19.1	35.0/29.1/24.1	35.8/30.0/25.8	58.0	77.5
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
Piping	Connection Type		Flare-nut Connection(with Flare Nuts)														
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53
		inch	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 19.05	Φ 22.2
		inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	3/4	7/8
	Condensate Drain		VP25(Outer Diameter Φ32mm)														
Weight	Net Weight	kg	25	25	25	25	34	34	34	34	44	44	44	56	56	94	106
	Gross Weight	kg	33	33	33	33	41	41	41	41	54	54	54	68	68	106	111
Dimensions	External	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

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: AC 3Φ, 380V/50Hz, \*2: AC 3Φ, 380V/60Hz

# Wall Mounted Type

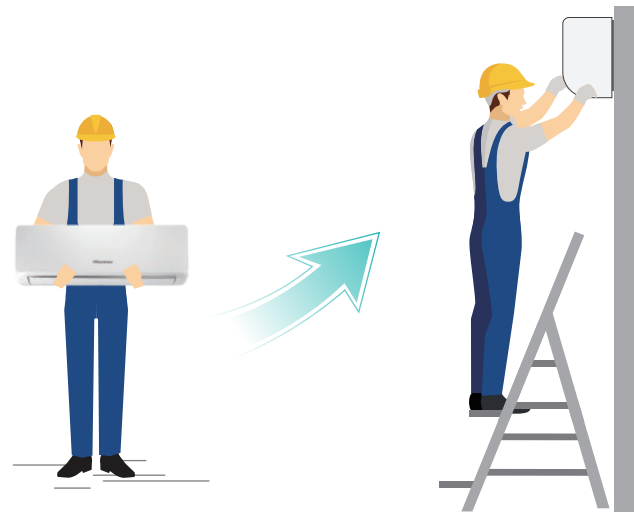
## Sleek smooth design

Shiny White cover panel of the unit has an elegant aesthetic. The unit also offers LED temperature display hidden under the smooth panel, eases cleaning routine without compromising user's convenience while setting the temperature.



## Lighter to simplify installation

Light weighted resins composites are used for the panels, louvers and other parts to reduce overall weight per unit for a simpler installation experience.



## Flexible piping connection

Both Refrigerant and drainage pipings are freely to connect in any direction including any sides(L or R). An additional direction to the back of the unit for refrigerant pipes to allow passing through walls.



# Wall Mounted Type

## Wall Mounted Type



Model			AVS-07 URCSABA	AVS-09 URCSABA	AVS-12 URCSABA	AVS-14 URCSABA	AVS-17 URCSABA	AVS-18 URCSBBA	AVS-22 URCSBBA	AVS-24 URCSBBA
Power Supply			AC 1Φ, 220V~240V/50Hz							
Model			AVS-07 UR2SABA	AVS-09 UR2SABA	AVS-12 UR2SABA	AVS-14 UR2SABA	AVS-17 UR2SABA	AVS-18 UR2SBBA	AVS-22 UR2SBBA	AVS-24 UR2SBBA
Power Supply			AC 1Φ, 220V/60Hz							
Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
		Btu/h	7,500	9,500	12,300	13,600	17,000	19,100	21,500	24,200
	Heating	kW	2.5	3.3	4.0	4.5	5.6	6.3	7.1	8.0
		Btu/h	8,500	11,100	13,600	15,300	19,100	21,500	24,200	27,300
Power Input	Cooling	W	50	50	60	60	65	54	62	72
	Heating	W	50	50	60	60	65	62	72	80
Sound Pressure		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
Airflow Rate		m³/min	11.0/9.8/8.7/7.7	11.0/9.8/8.7/7.7	13.8/11.0/8.7/7.7	13.8/11.0/8.7/7.7	15.0/12.5/9.8/7.7	14.8/13.0/11.2/9.7	16.8/14.9/11.9/10.3	18.7/16.4/13.4/10.8
Panel Colour		-	-	-	-	-	-	-	-	-
Piping	Connection Type	-	Flare-nut Connection(with Flare Nuts)							
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53	Φ 9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8
	Gas	mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88	Φ 15.88
		inch	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	Condensate Drain	mm	O.D.32							
Weight	Net Weight	kg	13.5	13.5	13.5	13.5	13.5	16.0	16.0	16.0
	Gross Weight	kg	17	17	17	17	17	20	20	20
Dimensions	External	H mm	315	315	315	315	315	315	315	315
		W mm	960	960	960	960	960	1120	1120	1120
		D mm	230	230	230	230	230	230	230	230

- 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 meter beneath the unit and 1 meter 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.



# Ceiling & Floor Type

## Sleek smooth design

Shiny White cover panel of the unit has an streamlined elegant aesthetic. The bolts and nuts, which used to secure the unit onto walls or ceiling, are designed to be concealed in the unit for a sleek room interior look.



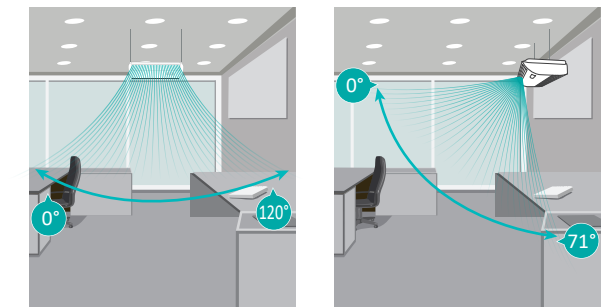
## Flexible installation

The unit can be installed to be standing on floors or hanging on ceilings. Whereby interior walls maximized to display items, can hang the unit on the ceiling. Very significant effect on space saving.



## Widely air supply

Louvers are consist of horizontal and vertical flaps to cover larger coverage area to the edges of any rooms. Wider opening angle from up to 120° for vertical louvers and up to 71° for horizontal louvers supplies air further and lower down to floor needed during heating modes.



## Convenient installation and maintenance

Adjust the ceiling or wall mounting height by just opening the side panels without the need to access the internal parts. Service manholes are unnecessary due to the strategic repositioning of piping connections and electrical box behind the air return panel, service and clean the filter all in the same compartment.



# Ceiling & Floor Type

## Ceiling & Floor Type



Model			AVV-17URSCA	AVV-18URSCA	AVV-22URSCA	AVV-24URSCA	AVV-27URSCB	AVV-30URSCB	AVV-38URSCB	AVV-48URSCC
Power Supply			AC 1Φ,220V~240V/50Hz/60Hz							
Capacity	Cooling	kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
		Btu/h	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500
	Heating	kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
		Btu/h	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600
Power Input	Cooling	W	40	40	70	70	70	80	130	160
	Heating	W	40	40	70	70	70	80	130	160
Sound Pressure	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
	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
Airflow Rate		m³/min	13.0/11.0/9.0	13.0/11.0/9.0	16.1/14.0/11.3	16.1/14.0/11.3	18.2/15.2/12.2	19.4/16.3/13.3	24.8/20.5/16.3	33.0/28.0/23.0
Speed-up Setting HH1		m³/min	14.2	14.2	17.8	17.8	19.8	21.2	27.0	36.0
Speed-up Setting HH2		m³/min	16.0	16.0	20.0	20.0	22.3	23.5	29.2	37.4
Panel Colour		-	-	-	-	-	-	-	-	-
Piping	Connection Type	-	Flare-nut Connection(with Flare Nuts)							
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53
		inch	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88
		inch	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm	O.D.32							
Weight	Net Weight	kg	31	31	32	32	39	40	41	47
	Gross Weight	kg	38	38	39	39	46	47	48	56
Dimensions	External	H mm	230	230	230	230	230	230	230	230
		W mm	990	990	990	990	1285	1285	1285	1580
		D mm	680	680	680	680	680	680	680	680

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.

# Floor Concealed Type

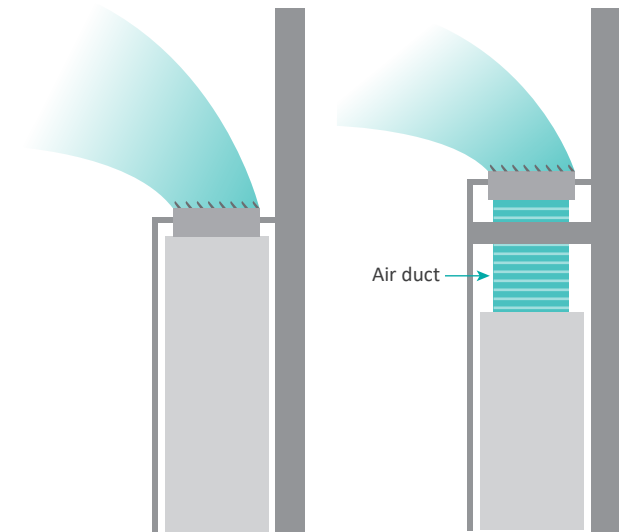
## Space saving

Floor concealed units are designed to be installed on floors completely concealed into the walls. It's designed to be slim and compact with only height of 620mm to be hidden under half-heighted windows.



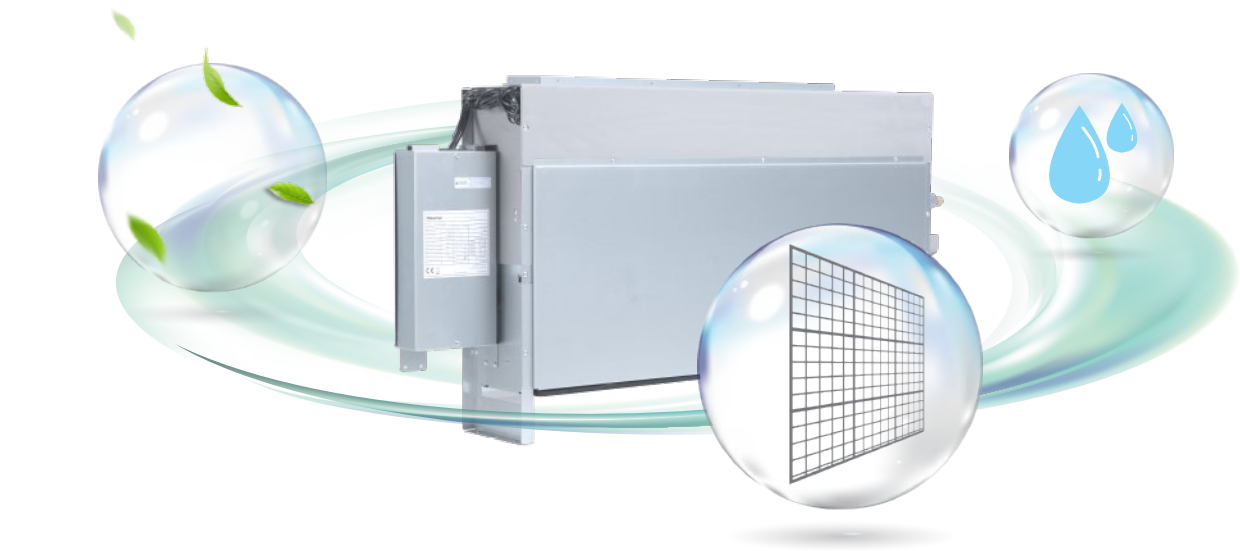
## Flexible installation

Users can choose the air duct to increase the air supply distance in order to achieve the completely concealed installation.



## Connectable devices

The accessories like air return filters, fresh air adapter and humidity sensors are all connectable to the concealed floor unit.



# Floor Concealed Type

## Floor Concealed Type



Model			AVH-09UXCSAA	AVH-14UXCSAA	AVH-18UXCSBA	AVH-24UXCSBA
Power Supply			AC 1Φ, 220V~240V/50Hz			
Model			AVH-09UX2SAA	AVH-14UX2SAA	AVH-18UX2SBA	AVH-24UX2SBA
Power Supply			AC 1Φ, 220V/60Hz			
Capacity	Cooling	kW	2.8	4.3	5.6	7.1
		Btu/h	9,600	14,700	19,100	24,200
	Heating	kW	3.3	4.9	6.5	8.5
		Btu/h	11,300	16,700	22,200	29,000
Power Input	Cooling	W	50	80	90	120
	Heating	W	50	80	90	120
Sound Pressure		dB(A)	34/31/27	40/36/34	41/36/32	44/40/36
Airflow Rate		m³/min	8.5/7.5/6.3	10.3/9.0/8.0	14.8/12.3/10.5	16.3/13.8/11.8
Piping	Connection Type	-	Flare-nut Connection(with Flare Nuts)			
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53
		inch	1/4	1/4	1/4	3/8
	Gas	mm	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88
		inch	1/2	1/2	5/8	5/8
	Condensate Drain	mm	O.D.32			
Weight	Net Weight	kg	18	22	26	27
	Gross Weight	kg	30	31	37	37
Dimensions	External	H mm	620	620	620	620
		W mm	948+139	948+139	1218+139	1218+139
		D mm	202	202	202	202
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)

### 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.



# Hydro Box



# Hydro Box

## Specification for hydro box

Hydro Box Model			AHM-080FJFAA	AHM-160FJFAA
Power Supply			AC 1Φ,220-240V/50/60Hz	
Cooling Capacity (A 35/24°C/W 12-7°C)		kW	7.5	12.5
Heating Capacity (A 7/6°C/W 30-35°C)		kW	8	16
Nominal Power Input		kW	0.08(3.08)	0.14(3.14)
Dimensions	H*W*D	mm	890×520×320	890×520×320
Packing Dimensions	H*W*D	mm	1120×595×462	1120×595×462
Weight	Net	kg	55	58
	Gross	kg	72	75
Heat Exchanger			Plate Heat Exchanger	
Heat Exchanger Insulation Material			Elastomeric Foam	
Water Production	Heating	°C	20 to 55	20 to 55
	DHW(with electric heater)	°C	35 to 75	35 to 75
	Cooling	°C	5 to 20	5 to 20
Sound Pressure		dB(A)	33	33
Sound Power		dB(A)	46	46
Piping Connections	Gas	mm	Φ9.53	Φ9.53
	Liquid	mm	Φ15.88	Φ15.88
Water Pump	Type		DC Motor	
	Pumping Head for Water Circuit	m	5	5
	Power Input	w	100	160
Booster Heating		kW	3	3
Water Filter	Diameter Perforations	mm	0.85	0.85
	Material		Hpb59-1	Hpb59-1
Water Circuit	Piping Connections Diameter	mm	G1-1/4"	G1-1/4"
	Shut off Valve		Yes	Yes
	Drain Valve		Yes	Yes
	Safety Valve	Bar	3	3
	Air Purge Valve		Yes	Yes
Nominal Water		m³/h	1.38	2.75
Expansion Vessel	Volume	L	8	8
	Max. Water Pressure	Bar	3	3

## Operation range

### Indoor Unit Cooling

	Maximum	Minimum
Indoor	32°C DB / 23°C WB	21°C DB / 15°C WB
Outdoor	52°C DB*	-10°C DB

### Water Module Cooling

	Maximum	Minimum
Inlet Water	25°C	10°C
Outdoor	48°C DB	10°C DB

### Water Module Heating (DHW)

	Maximum	Minimum
Inlet Water	54°C	10°C
Outdoor	43°C WB	-25°C WB**

### Indoor Unit Heating

	Maximum	Minimum
Indoor	27°C DB	15°C DB
Outdoor	16.5°C WB	-25°C WB**

### Water Module Heating (Floor Heating)

	Maximum	Minimum
Inlet Water	54°C	10°C
Outdoor	16.5°C WB	-25°C WB**

DB: Dry Bulb  
WB: Wet Bulb  
(\*): 48°C DB ~ 52°C DB, Operation Control Range  
(\*\*): -20°C WB ~ -25°C WB, Operation Control Range



# Ventilation Solution

## HKF D1EC



### HKF D1EC TECHNICAL CHARACTERISTICS

Air-to-air enthalpy heat recovery device, thermal efficiency upto 76%

Galvanized steel self-supporting panels, internally and externally insulated; accessibility from side dool

IS 16890 ePM2.5 95% (F9 EN 799) efficiency class filter with synthetic cleanable media and COARSE 50% (G3 EN 779) pre-filter on fresh air, COARSE 50% filter on return air intake

Integrated pressure switch for dirty filter signal

Motorised heat recovery by-pass device, automatically controlled by unit control to use fresh air free-cooling when convenient

Low consumption high efficiency & low noise direct driven fans with 10-speed EC motors

Duct connections by circular plastic collars

Built-in electric box equipped with PCB to control fan and by-pass function

## HKF D1EC/C



### HKF D1EC/C TECHNICAL CHARACTERISTICS

In addition to the same parameters above described, this type of unit has other characters:

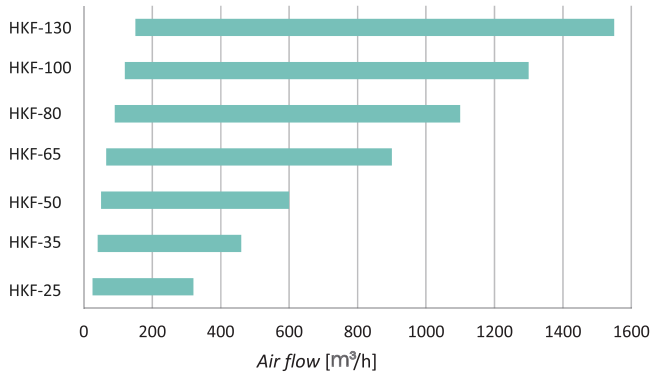
Supply section for Hisense VRF system complete with DX(R410A) coil fitted with thermostatic valve, refrigerant filter, sensors on liquid and gas pipe, temperature sensors in outlet and inlet.

Built-in PCB to control fan speed and air temperature.

#### Options

- Touch screen controller- PTS
- CO<sub>2</sub> wall mount sensor- QSW
- Humidity wall mount sensor - USW

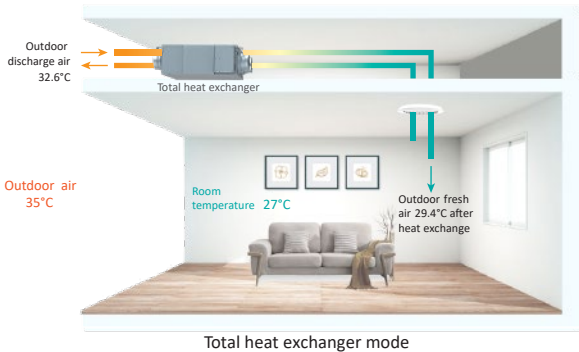
- Duct circular sound attenuator- SLC
- Purifying system BIOXIGEN® BIOX



# Ventilation Solution

## Energy saving analysis

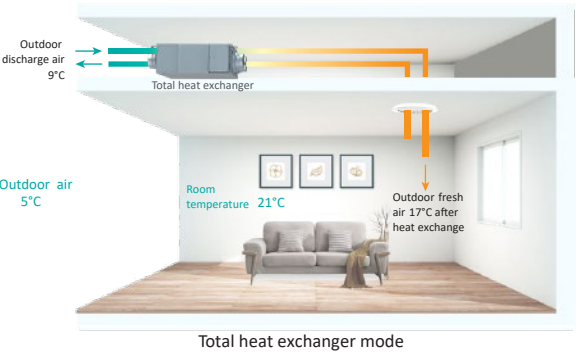
### Summer energy saving analysis



In summer operation, when the cold energy of 27°C air discharged from indoor pass through the heat exchanger, the 35°C outdoor hot air is pre-cooled to 29. 4°C fresh air and supplied to indoors, as shown above, the air conditioner only needs to cool the air by 2.4°C to maintain a comfortable room temperature and fresh air. In this process, the discharge air pre-cools the fresh air by HRV, The temperature recovery efficiency in cooling is 70% max, and enthalpy exchange efficiency is 57% max.

Air Inlet			Outdoor Air	
	Total Heat Exchanger	Traditional Ventilation Fan	Dry Bulb Temperature °C	35
Dry Bulb Temperature °C	29.4	35	Wet Bulb Temperature °C	28
Wet Bulb Temperature °C	23.3	28	Relative Humidity %	59.1
Moisture Content g/kg	15.7	21.1	Enthalpy Value kJ/kg(DA)	89.4
Relative Humidity %	60.1	59.1		
Enthalpy Value kJ/kg(DA)	69.8	89.4		
Recycling Cold kW	1.57	0		
Heat Load kW	2.8	2.8		
Indoor Air			Discharge Air	
			Dry Bulb Temperature °C	27
			Wet Bulb Temperature °C	19.5
			Relative Humidity %	49.8
			Enthalpy Value kJ/kg(DA)	55.5

### Winter energy saving analysis



In winter operation, when the heat energy of 21°C air discharged from indoor pass through the heat exchanger, the 5°C outdoor cold air is pre-heated to 17°C fresh air and supplied to indoors, as shown above, when outdoor 5°C air and indoor 21°C air pass through the HRV, the fresh air supplied to indoors is about 17°C, the air conditioner only needs to heat the air by 4°C to maintain a comfortable room temperature and fresh air. The temperature recovery efficiency in heating is 75% max, and enthalpy exchange efficiency is 63% max.

Air inlet			Outdoor Air	
	Total Heat Exchanger	Traditional Ventilation Fan	Dry Bulb Temperature °C	5
Dry Bulb Temperature °C	17	5	Wet Bulb Temperature °C	2
Wet Bulb Temperature °C	9.4	2	Relative Humidity %	58.5
Moisture Content g/kg	4.2	6	Enthalpy Value kJ/kg(DA)	12.9
Relative Humidity %	35.3	58.5		
Enthalpy Value kJ/kg(DA)	27.8	12.9		
Recycling Cold kW	1.3	0		
Heat Load kW	2	2		
Indoor Air			Discharge Air	
			Dry Bulb Temperature °C	21
			Wet Bulb Temperature °C	13
			Relative Humidity %	39.2
			Enthalpy Value kJ/kg(DA)	36.5



# Ventilation Solution

## Performance

Model	HKF-**D1EC HKF-**D1EC/C	HKF-25	HKF-35	HKF-50 HKF-50	HKF-65 HKF-65	HKF-80 HKF-80	HKF-100 HKF-100	HKF-130 HKF-130
Nominal air flow	m³/h	250	350	500	650	800	1000	1300
Nominal external static pressure	Pa	90	140	110 90	100 75	140 120	140 115	140 110
Electrical power supply	V/ph/Hz	230/1/50						
Total full load amperage	A	0.5	0.6	0.6	1.2	1.4	2.1	2.7

Fans								
Motor tpology		EC	EC	EC	EC	EC	EC	EC
Number of speeds		10	10	10	10	10	10	10
Fan conto*1		Man	Man	Man	Man	Man	Man	Man
Internal specific fan power of ventilation components-SFP int*5	W/(m³/s)	812	670	547	846	865	881	873
Total nominal power input	kW	0.08	0.13	0.15	0.23	0.32	0.39	0.50
Sound pressure level*2	dB(A)	34	37	39	40	42	43	44

Heat Exchanger								
Winter thermal efi.c*3	%	73.0%	74.0%	76.0%	74.0%	76.0%	76.0%	74.2%
Winter enthalpy efi.c*3	%	65.0%	65.0%	67.0%	65.0%	65.0%	62.0%	59.0%
Summer thermal efc.*4	%	73.0%	74.0%	76.0%	74.0%	76.0%	76.0%	74.0%
Summer enthalpy efi.c*4	%	62.0%	62.0%	63.0%	60.0%	63.0%	60.0%	58.0%
Dry thermal efficiency*5	%	73.0%	74.0%	76.0%	74.0%	76.0%	76.0%	74.0%

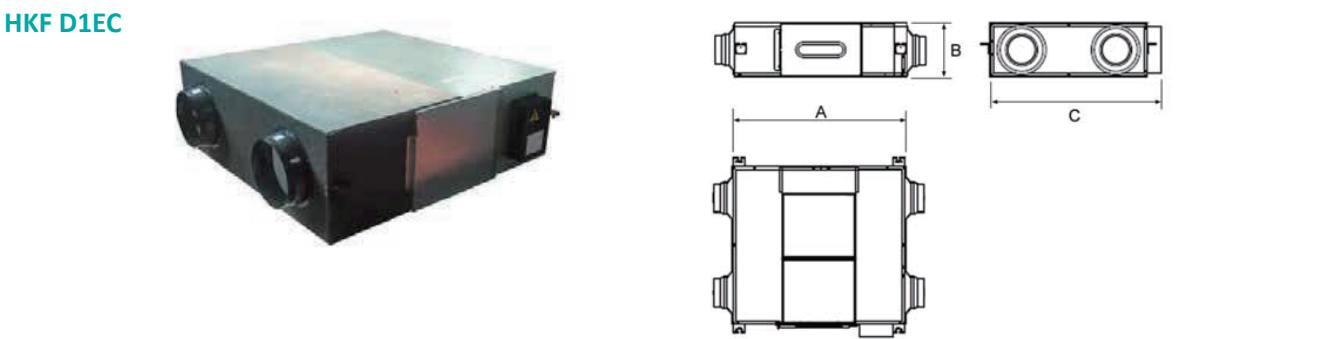
Dx Coil								
Heating Capacity*6	kW	—	—	2.5(2.7)	3.0(3.3)	4.4(4.8)	5.2(6.7)	6.2(6.7)
Total coling capacit*7	kW	—	—	3.0	3.5	5.1	5.8	7.0

NOTES:  
\*1.Man = Manual by selector switch or control panel;  
\*2.Sound pressure level calculated at 1 m far from: ducted supply-exhaust air/lducted; return-fresh air intake/service side, at nominal conditions.  
\*3.Outside air at -5° 80% RH; room air at 20°C 50% RH  
\*4.Outside air at 32° 50% RH; room air at 26°C 50% RH  
\*5.Refeer to EU 1253/2014 regulation: at nominal pressure; air conditions refer to EN 308 standard  
\*6.Air inlet condition: 13°C DB, RH 40% (11°C DB, RH 45%); condensing temp. 40°C  
\*7.Air inlet condition: 28,5°C DB, RH 50%; evaporating temp. 7°C

# Ventilation Solution

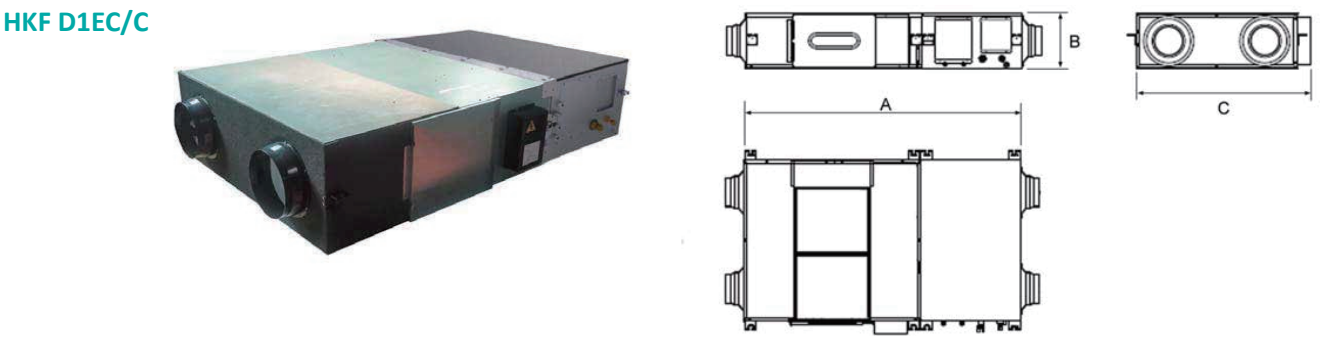
## Dimensions

### HKF D1EC



Model	A(mm)	B(mm)	C(mm)	Weight(kg)
HKF-25D1EC	815	270	650	30
HKF-35D1EC	815	270	855	37
HKF-50D1EC	895	270	955	43
HKF-65D1EC	1185	390	945	65
HKF-80 D1EC	1185	390	1200	71
HKF-100D1EC	1200	390	1290	83
HKF-130D1EC	1200	390	1290	83

### HKF D1EC/C

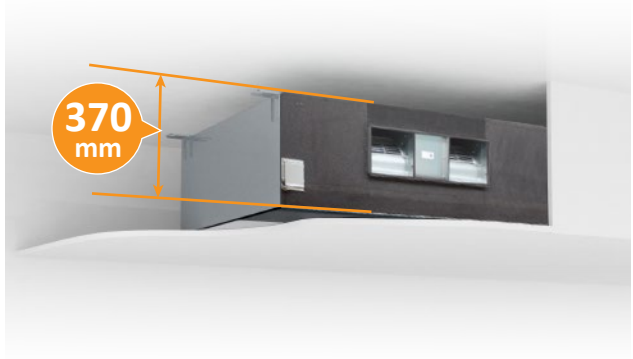


Model	A(mm)	B(mm)	C(mm)	Weight(kg)
HKF-50D1EC/C	1495	270	955	90
HKF-65D1EC/C	1685	390	945	97
HKF-80D1EC/C	1685	390	1200	100
HKF-100D1EC/C	1700	390	1290	105
HKF-130D1EC/C	1700	390	1290	105

# All Fresh Air Indoor Unit

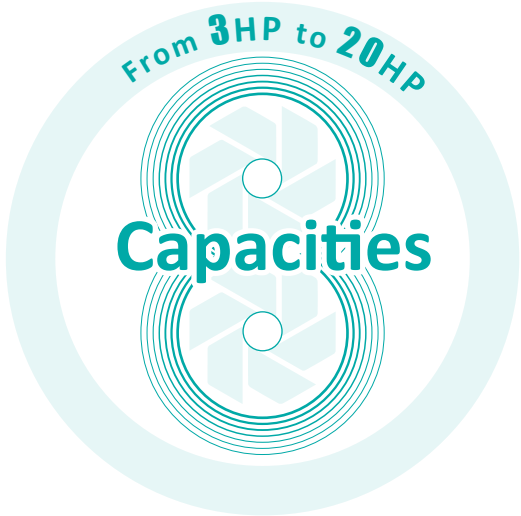
## Space saving

Fresh air unit with of height lower until 370mm only require small amount of ceiling space. It fits to the room ceilings with various duct connections.



## Larger capacity & static pressure options

The total amount of fresh air units could be reduced with larger capacity and larger airflow rate per unit. With the reduced amount of units, fresh air ducts often need to be supply to the furthest room, achievable with high static pressures offered.



## Simple & flexible piping system

Fresh air from the units could be pre-cooled connecting to the same refrigerant systems with other indoor units, introducing cooled or warm fresh air directly without overburdening other indoor units.



# All Fresh Air Indoor Unit

## All Fresh Air Indoor Unit



Model			AVA-30UX CSCH-70	AVA-48UX CSQH-108	AVA-76UX CSRH-168	AVA-96UX CSRH-21	AVA-114UX 6SRH-300	AVA-154UX 6SSH-400	AVA-190UX 6SSH-500	AVA-190UX 6STH-600
Power Supply			AC 1Φ,220V~240V/50Hz				AC 3Φ,380V~415V/50Hz			
Model			AVA-30UX 2SCH-70	AVA-48UX 2SQH-108	AVA-76UX 2SRH-168	AVA-96UX 2SRH-210	AVA-114UX 7SRH-300	AVA-154UX 7SSH-400	AVA-190UX 7STH-500	AVA-190UX 7tSTH-600
Power Supply			AC 1Φ,220V/60Hz				AC 3Φ,380V/60Hz			
Capacity	Cooling	kW	9.0	14.0	22.4	28.0	33.5	45.0	56.0	56.0
		Btu/h	30,700	47,800	76,500	95,600	114,300	153,600	191,100	191,100
	Heating	kW	8.6	13.7	21.9	24.5	26.8	36.0	44.8	44.8
		Btu/h	29,400	46,800	74,700	83,600	91,500	122,900	152,900	152,900
Power Input	Cooling	W	150	330	490	510	740	1120	1330	1620
	Heating	W	150	330	490	510	740	1120	1330	1620
Sound Pressure	dB(A)		32	43	45	46	56	61	64	66
Airflow Rate	m³/min		11.0	18.0	28.0	35.0	50.0	66.7	83.3	100.0
External Static Pressure	Pa		60(120)	200	220	220	220	300	320	300
Piping	Liquid	mm	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88
		inch	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8
	Gas	mm	Φ 15.88	Φ 15.88	Φ 19.05	Φ 22.2	Φ 25.4	Φ 25.4	Φ 28.6	Φ 28.6
		inch	5/8	5/8	3/4	7/8	1	1	1-1/8	1-1/8
Weight	Net Weight	kg	46	60	97	97	97	196	222	222
	Gross Weight	kg	51	64	117	117	117	240	267	267
Dimensions	External	H mm	370	370	486	486	486	635	735	735
		W mm	920	1320	1270	1270	1270	1950	1950	1950
		D mm	800	800	1069	1069	1069	805	805	805
	Packaging	H mm	390	390	1290	1290	1290	816	916	916
		W mm	1112	1512	1466	1466	1466	2213	2213	2213
		D mm	922	922	540	540	540	1006	1006	1006
	Temperature Range of Fresh Air		-	Cooling: 20°C~43°C, Heating: -7°C~15°C						

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions  
Cooling operation conditions: 33°C DB, 28°C WB, piping length: 7.5m, piping lift: 0m  
Heating operation conditions: 0°C DB, -9°C WB, piping length: 7.5m, piping lift: 0m  
(Heating capacity is tested when defrosting is not available )

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

3. An air filter with duct collection efficiency more than 50% needs to be attached to the duct system of the suction side at site.
4. This unit shall be connected to Hi-FLEXi S, X,W and Hi-Smart H Series outdoor units. In case of connecting this unit with other indoor units in the same refrigerant cycle,calculate the capacity of this unit as 46.1KBtu/h(30.7KBtu/h), 71.7KBtu/h(47.8KBtu/h), 143.3KBtu/h(95.6KBtu/h).

5. Under cooling mode,when outdoor temperature is lower than 20 °C,the system will automatically shift to ventilation operation; Under heating mode, when outdoor temperature is higher than 15°C the system will automatically shift to ventilation operation; In case inlet temperature is below -7°C all fresh air unit will stop.



# AHU Connection Kit



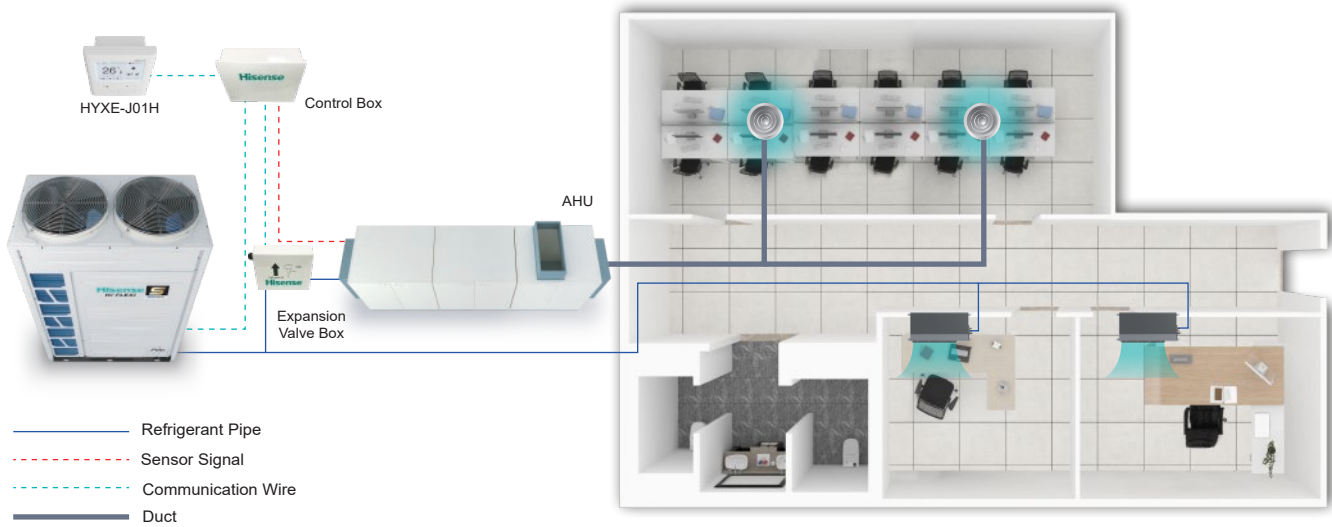
The Hisense AHU-KIT can integrate external heat exchangers of Air-handling units (AHU) into a Hisense VRF system to be used for air conditioning, which can provide more flexible air conditioning solutions and save more cost in the building air conditioning renovation.

## Main functions

- ◆ ON/OFF Control
- ◆ Temperature Setting
- ◆ Capacity Demand
- ◆ Operation Mode

## Selection and limitation of heat exchanger of AHU

The Heat Exchanger of AHU(field-supplied)should be selected according to the following technical data and limitations. Lifetime of the outdoor unit, operation range or operation reliability may be influenced if these limitations are neglected.



# AHU Connection Kit

AHU kit can provide 3 kinds of control type for AHU application: Inlet air temperature control, outlet air temperature control and duty signal control.

Capacity Control Mode	Set Temperature by Remote Controller	Set ODU Capacity Range	Compatible ODU Series
Inlet Air (room air) Temperature Control	Cooling: 19~30 °C Heating: 17~30 °C	—	S series, W series, H series
Outlet Air Temperature Control			
Duty Signal Control (0~10V or 0~5V or 4-20mA)	—	15%~100%	

AHU Connection KIT		HZX-2.0 AEC	HZX-4.0 AEC	HZX-6.0 AEC	HZX-10.0AEC		HZX-20.0AEC						HZX-30.0AEC				
Model Power Supply		AC 1Φ,220~240V/50Hz/60Hz															
Nominal Capacity of AHU		HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Allowed Heat Exchanger Capacity (H/M/L)		kW	4.0	7.1	11.2	16.0	20.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0
		kW	5.0	9.0	14.0	20.0	25.0	30.0	35.0	43.0	48.0	52.0	58.0	65.0	71.0	76.0	82.0
		kW	5.6	11.2	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0	85.0
	Cooling	kW	4.5	8.0	12.5	17.9	22.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0
		kW	5.6	10.0	16.0	22.4	28.0	33.5	40.0	47.5	53.0	60.0	66.0	75.0	79.0	86.0	92.0
		kW	7.1	12.5	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0	95.0
		Heating															
Heat Exchanger Volume	Min	dm³	0.57	1.03	1.92	2.92	3.89	4.76	5.85	6.79	7.57	8.47	9.04	9.50	10.39	11.39	12.36
	Max	dm³	1.16	2.37	2.92	3.89	4.76	5.91	6.89	8	8.92	9.97	11.13	12.34	12.89	13.86	14.73
Equivalent Indoor Unit Capacity		HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Control Box Model		HZX-AEC/1															
Expansion Valve Box Model		HZX-2.0 AEC/2	HZX-4.0 AEC/2	HZX-6.0 AEC/2	HZX-10.0 AEC/2		HZX-20.0 AEC/2						HZX-20.0AEC/2 2set				

\*Cooling and heating capacity data based on the following indoor and outdoor temperature conditions:

Operation Conditions		Cooling	Heating
Indoor Air Inlet Temperature	DB	27.0°C	20.0°C
	WB	19.0°C	—
Outdoor Air Inlet Temperature	DB	35.0°C	7.0°C
	WB	—	6.0°C







DB:Dry Bulb; WB:Wet Bulb; Pipe Length:7.5m; Pipe Height:0m









Model	Wired Controller					Wireless Controller	Central Controller	
	HYXE-J01H	HYXE-VA01	HYXM-VB01	HYXE-M01H	HYXE-S01H	HYE-W01	HYJM-S01H	HYJ-J01H
Picture								
Max. connectable indoor units	16	16	6	6	16	16	160	128
Cool/Heat/Auto	●	●	●	●	●	●	●	○
Dehumidification	●	●	●	●	●	○	●	○
Fan speed	●	●	●	●	●	●	●	○
Louver setting	●	●	●	●	●	●	●	○
Temperature setting	●	●	●	●	●	●	●	○
Operation monitoring	●	●	●	●	●	●	●	○
24-hour timer	●	●	●	●	●	●	●	○
7-day timer	●	○	●	○	○	○	●	○
Holiday setting	●	○	●	○	○	○	●	○
Main-sub control	●	●	●	●	○	○	○	○
Check function	●	●	●	●	●	○	○	○
Air filter cleaning reminding	●	●	●	●	●	○	●	○
Error code history display	●	●	●	●	●	○	●	○
Auto test run	●	●	●	●	●	●	○	○
Indoor/Outdoor PCB checking	●	●	●	●	●	○	○	○
Self diagnostic function	●	●	●	●	●	●	●	●
Back light	●	●	●	●	●	●	●	○
Built-in temperature sensor	●	●	○	○	○	○	○	○
Wireless control available	○	○	●	●	○	○	○	○
Louver controlled independently	●	●	●	○	○	○	○	○
Breeze mode	●	●	●	○	○	○	○	○
Motion sensor	●	●	●	●	○	○	○	○
Health(air pure)	●	●	●	●	○	●	○	○
Hi-Motion	●	○	●	○	○	○	○	○
ECO(energy saving)	●	●	●	●	○	●	●	○
Mute	●	●	●	●	●	●	○	○
Sleep	●	●	●	●	○	●	○	○
Window contact design	●	●	●	○	○	○	○	○
3D-air flow	●	●	●	●	○	●	○	○

Remarks: ● Available ○ Unavailable



Type		Wired Controller					Wireless Controller
Model		HYXE-J01H	HYXE-VA01	HYXE-VB01	HYXE-M01H	HYXE-S01H	HYE-W01
Picture							
Indoor Unit	4-Way Cassette	●	●	●	●	●	●
	Mini 4-Way Cassette	●	●	●	●	●	▲
	1-Way Cassette	●	●	●	●	○	●
	2-Way Cassette	●	●	●	●	○	●
	Ceiling Ducted Type	●	●	●	●	●	●
	Ceiling Ducted Type(High/low)	●	●	●	●	●	●
	Console	●	●	●	●	●	▲
	Wall Mounted Type	●	●	●	●	●	▲
	Ceiling & Floor Type	●	●	●	●	●	▲
	Floor Concealed Type	●	●	●	●	○	●
	All Fresh Air	●	●	●	●	●	●
	Heat Recovery Ventilator	●	●	●	▲	●	○

Type		Receiver Kit				Centralized Controller	ON/OFF
Model		HYRE-V02H	HYRE-Z01H	HYRE-T03H	HYRE-X01H	HYJM-S01H	HYJ-J01H
Picture							
Indoor Unit	4-Way Cassette	○	○	●	○	●	●
	Mini 4-Way Cassette	●	●	○	○	●	●
	1-Way Cassette	○	○	○	●	●	●
	2-Way Cassette	●	○	○	○	●	●
	Ceiling Ducted Type	●	○	○	○	●	●
	Ceiling Ducted Type(High/low)	●	○	○	○	●	●
	Console	●	○	○	○	●	●
	Wall Mounted Type	●	○	○	○	●	●
	Ceiling & Floor Type	●	○	○	○	●	●
	Floor Concealed Type	●	○	○	○	●	●
	All Fresh Air	●	○	○	○	●	●
	Heat Recovery Ventilator	○	○	○	○	●	●

Remarks: ● Optional ○ Incompatible ▲ Standard

## Wired Controller

### HYXE-J01H

Complete functions and spacious comfortable touch buttons with 4" large LCD screen



Mode	Cool/Heat/Auto/Fan/Dry/ECO/Mute/Sleep
Timer	24-hour/Weekly schedule/Holiday setting
Maintenance	Error code / Parameter check/Auto test run/ Indoor&Outdoor PCB checking/Self diagnostic function
Louver	Louver setting/Louver controlled independently/ 3D-air flow
Special function	Breeze mode/Motion sensor/Health/Hi-Motion
Fan speed	6
Temperature setting	0.5°C
Main-sub control	•
Air filter cleaning reminding	•
Back light	•
Built-in temperature sensor	•

### Features

- Size:120mm×120mm
- Max. connectable indoor units:16
- LCD display
- Touch Button
- Language:  
HYXE-J01H: English, Arabic.  
HYXE-J01H1: English, Spanish,  
Italian, German, Polish.  
HYXE-J01H2: English, Turkish,  
Russian, French, Dutch

### HYXE-VA01

Perfect petite size with powerful features and functions



Mode	Cool/Heat/Auto/Fan/Dry/ECO/Mute/Sleep
Timer	72-hour
Maintenance	Error code / Parameter check/Auto test run/ Indoor&Outdoor PCB checking/Self diagnostic function
Louver	Louver setting/Louver controlled independently/ 3D-air flow
Special function	Breeze mode/Motion sensor/Health
Fan speed	6
Temperature setting	0.5°C
Main-sub control	•
Air filter cleaning reminding	•
Back light	•
Built-in temperature sensor	•

### Features

- Size:120mm×120mm
- Max. connectable indoor units:16
- LCD display
- Touch Button

# Wired Controller

## HYXM-VB01

Seamless smooth and elegant white design incorporated with a pop of colour interphase



Mode	Cool/Heat/Auto/Fan/Dry/ECO/Mute/Sleep
Timer	24-hour/Eeekly schedule/Holiday setting
Maintenance	Error code / Parameter check/Auto test run/ Indoor&Outdoor PCB checking/Self diagnostic function
Louver	Louver setting/Louver controlled independently/ 3D-air flow
Special function	Breeze mode/Motion sensor/Health/Hi-Motion
Fan speed	6
Temperature setting	0.5°C
Main-sub control	•
Air filter cleaning reminding	•
Back light	•
Wireless control available	•

### Features

- Size:86mm×90mm
- Max. connectable indoor units:6
- LCD display
- Touch screen
- Language:  
VB01: English, Turkish, Russian,  
German, Arabic, spanish  
VB01#01: English, French, Italian,  
Dutch, Polish, Thai

## Colorful Screen



Heat



Cool



ON/OFF

# Wired Controller

## HYXE-M01H

Smooth streamline design with more than just a wired controller as it is compatible to wireless too



Mode	Cool/Heat/Auto/Fan/Dry/ECO/Mute/Sleep
Timer	72-hour timer
Maintenance	Error code / Parameter check/Auto test run/ Self diagnostic function/Indoor & Outdoor PCB checking
Louver	7 Louver setting/3D-air flow
Special function	Motion sensor/Health
Fan speed	6
Temperature setting	•
Main-sub control	•
Air filter cleaning reminding	•
Back light	•
Wireless control available	•

### Features

- Size:86mm×86mm
- Max. connectable indoor units:6
- LCD display
- Touch Button

## HYXE-S01H

User-friendly controller with smart size blending into wall switches ideally



Mode	Cool/Heat/Auto/Fan/Dry/Mute
Timer	24-hour
Maintenance	Error code / Parameter check/Auto test run/ Indoor&Outdoor PCB checking/Self diagnostic function
Louver	Louver setting
Special function	6
Fan speed	•
Temperature setting	•
Air filter cleaning reminding	•
Back light	

### Features

- Size:120mm×70mm
- Max. connectable indoor units:16
- LCD display
- Touch Button



# Wireless Controller

## HYE-W01

High quality screen display and extremely userfriendly remote controller



### Features

Mode	Cool/Heat/Auto/Fan/Dry/ECO/Mute/Sleep
Timer	24-hour
Maintenance	Auto test run/Self diagnostic function
Louver	Louver setting/3D-air flow
Special function	Health
Fan speed	6
Temperature setting	•
Back light	•

- Size:145mm×55mm
- LCD display

## Receiver Kit for Wireless Control-optional

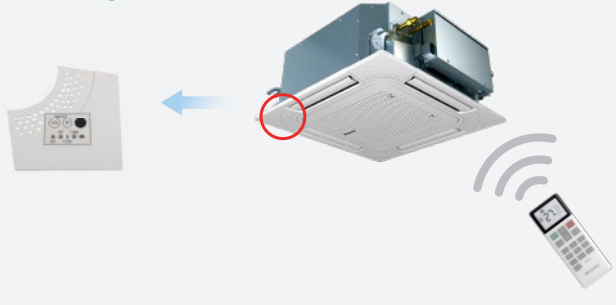
### HYRE-X01H



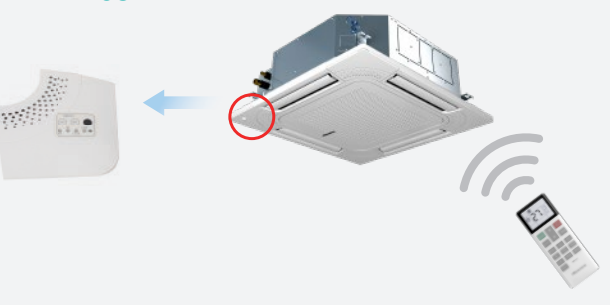
### HYRE-V02H



### HYRE-Z01H



### HYRE-T03H



# Central Controller

## HYJM-S01H

Advanced 7" coloured full touch screen, convinient yet robust



### Features

Cool/Heat/Auto/Fan/Dry/ECO
Holiday setting
Filter cleaning reminder
External input/Output function
Temperature limitation
All/4 zone/Individual control

- Size: 220mm×148mm
- Max. connectable indoor units:160
- Max. connectable indoor unit groups: 64
- Max. distance: 1000m
- Language:  
Chinese, English, Russian,Spanish,  
Turkish,German,Italian,Dutch,Polish,  
Arabic

Smooth Appearance



## ON/OFF Controller HYJ-J01H

Simplicity at its best with LED light signals



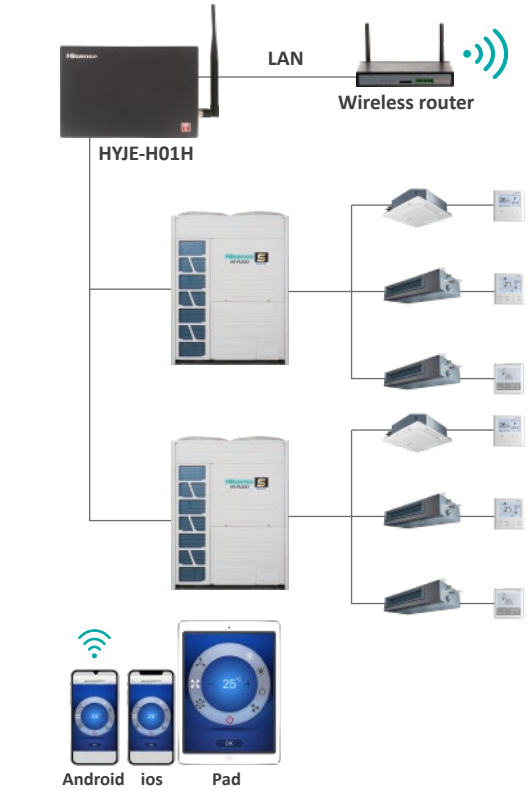
### Features

Group control (ON/OFF)
Indoor unit power OFF reminder
Indoor units Auto log in
Error reminder

- Size:120mm×120mm
- Max. connectable indoor units:128
- Max. connectable group:16
- Touch Button

# Intelligent Control

## HI-MIT



### Features

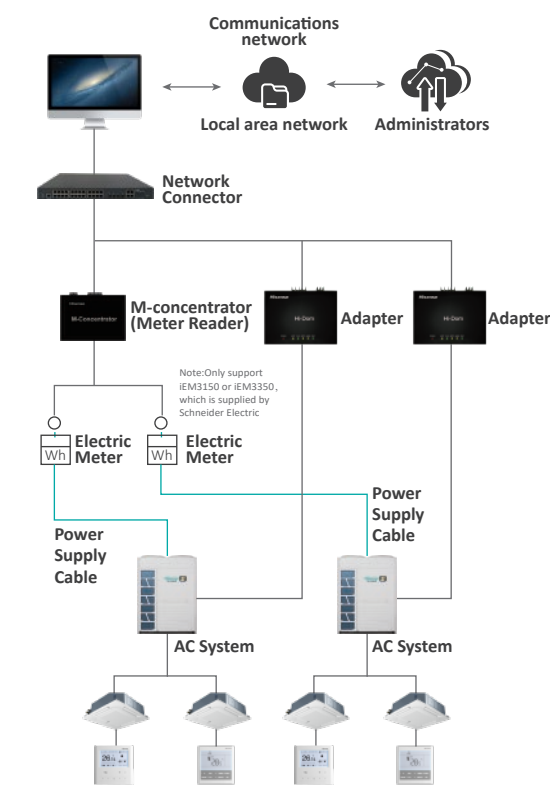
- ON/OFF, Mode, Temp, Fan Speed
- Weekly timer
- Alarm Display
- Profiles Setting, e.g Off home and Energy-saving Model
- Max.32 Indoor Units Can be Controlled
- Max.4 IPAD/Smart phone online at same time

### Basic information

Model Name	Input Voltage	Operating Temperature	Maximum Operating Current
HYJE-H01H	AC 110~240V 50/60Hz	0°C~40°C	10mA (220 V)

# Central Controller

## HI-DOM



### Features

- User management
- AC control(on-off,mode,temp,air flow)
- AC locked control(running forbidden control, the max. and min. temp and cooling/heating locked.)
- Running according to timer
- Malfunction history check
- Running record display
- Data synchronize
- Electricity consumption allocation
- One Hi-DOM controls 128 indoor units
- Max.4096 indoor units can be controlled

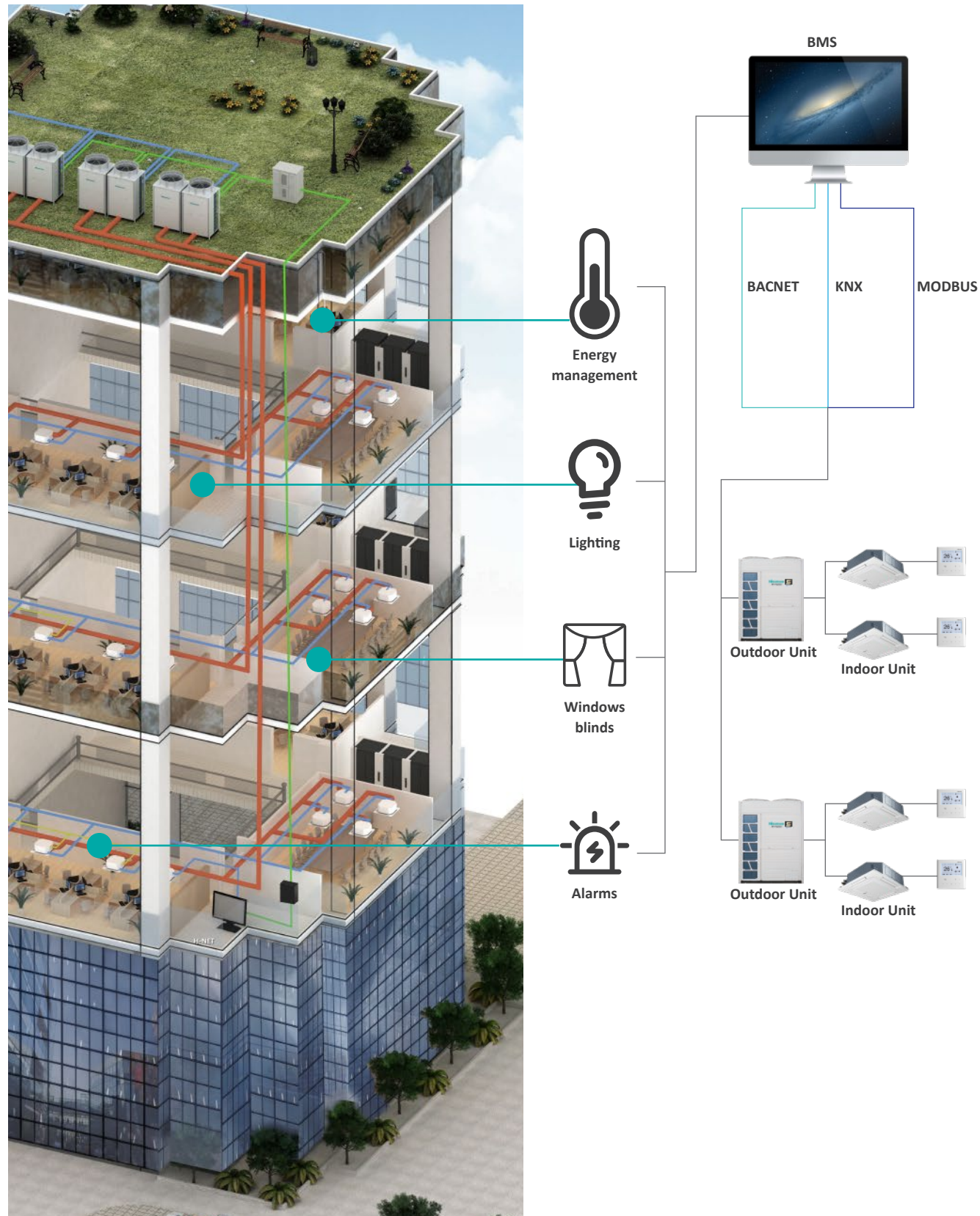
### Hi-Dom system specifications

Adapter (Hi-Dom)	Model Name	Power Supply	Dimension(mm)	Charging Function
	HCCS-H128H2C1YM HCCS-H247R4C1E	DC 12V	180x110x40	With charging function
	HCCS-H128H2C1NM	DC 12V	180x110x40	Without charging function

Note:HCCS-H247R4C1E is an meter reader for HCCS-H128H2C1YM to charging.



# Building Management System



## KNX

KNX	HS-RC-KNX-1i	HS-AC-KNX-16	HS-AC-KNX-64
Power Supply	29V, DC	24V, DC	24V, DC
Max. Number of Connectable Indoor Units	1	16	64
Dimension (H×W×D)	70×70×28	90×88×56	90×88×56
Features	<ul style="list-style-type: none"><li>Standard data point types (ALL)</li><li>Error code (ALL)</li><li>Central control of all IDUs (HS-AC-KNX-16/64)</li><li>Easy to use tool for the configuration of Intesis Box (HS-AC-KNX-16/64)</li><li>Directly control of all IDUs (HS-RC-KNX-1i)</li><li>Air filter reminder (HS-RC-KNX-1i)</li><li>Running hours counter (HS-RC-KNX-1i)</li></ul>		

## MODBUS

MODBUS	HCPC-H2M1C
Power Supply	12V, DC
Max. Number of Connectable Indoor Units	64
Dimension (H×W×D)	70×204×240
Features	<ul style="list-style-type: none"><li>On-Off Setting</li><li>Temperature Setting</li><li>Operating Mode Setting</li><li>Inlet Air Temp. Monitoring</li><li>Airflow Setting and Monitoring</li><li>All Units On/Off Control</li><li>Alarm Monitoring and Code Display</li></ul>

## BACNET

BACNET	HS-AC-BAC-16	HS-AC-BAC-64
Power Supply	24V,DC	24V,DC
Max. Number of Connectable Indoor Units	16	64
Dimension (H×W×D)	90×88×56	90×88×56
Features	<ul style="list-style-type: none"><li>Central control of all indoor units</li><li>Indoor unit data monitoring</li><li>Heat/ Dry/ Fan/ Cool/ Auto mode</li><li>ControlVane position swing control</li><li>Function prohibition of wired controller</li></ul>	



# ACCESSORY

Software Support  
Optional Parts

*AIR  
CONDITIONING  
SOLUTION*



# Selection Software

Hi-selection software developed by Hisense HRF, is a Windows-based program which can run in Window XP and other higher operating systems. This software supports multiple languages, and is convenient for users from different countries. Users can get the latest updated products information easily, because Hisense selection software supports product database update.

Besides, this software is very intelligent. It not only supports manually drawing but also can generate device piping diagram, wiring diagram and project detailed report automatically. Furthermore, the software supports insertion of architectural drawing in DWG,PDF,JPG and PNG file formats, and designing on the architectural drawing.



# Design Software

Hisense VRF design software is based on Autocad 2008~2020 which supports both 32-bit and 64-bit operating system. It involves the latest all ranges of products of Hisense, and supports online database update. The software supports system calculating for refrigerant

ant pipes and condensate pipes. Besides, the installation material and the amount of the refrigerant charge can be calculated through the software. So that users can design the system easily.



# Design Software

## BIM

Building Information Modeling (BIM) is an umbrella term to cover many aspects of building modeling. Hisense can provide up-to-date graphic and parametric product information that is ready to use in any BIM process.



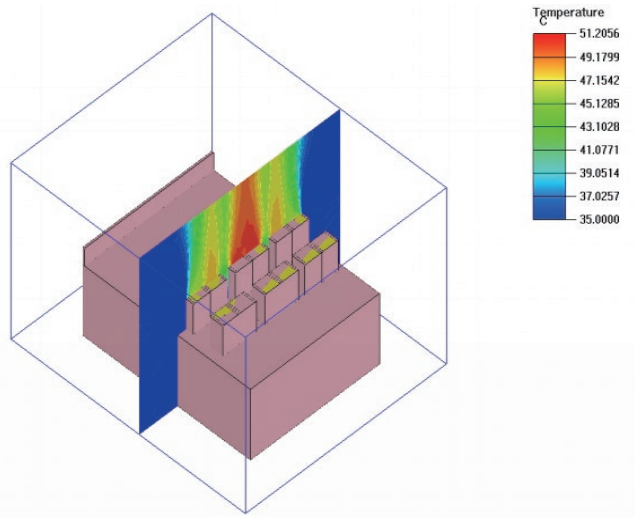
## CFD

### What is CFD technology ?

CFD stands for Computational Fluid Dynamics, which is the science of predicting fluid flow, heat transfer, mass transfer, chemical reactions, and related phenomena by solving the mathematical equations which govern these processes using a numerical process (that is, on a computer).

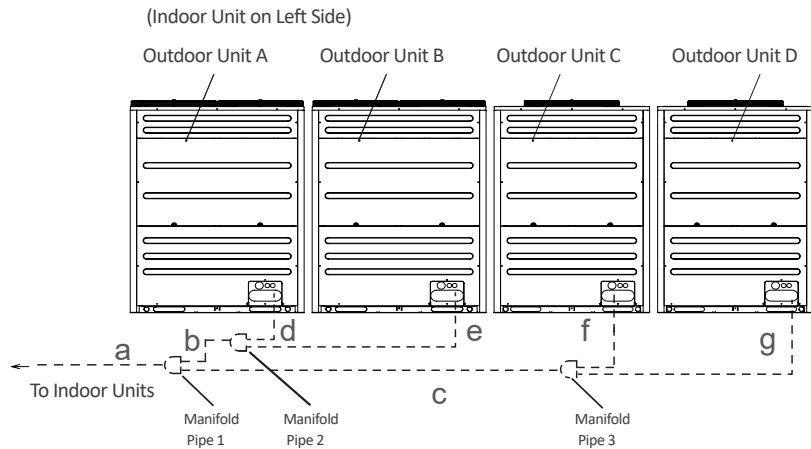
### What can we do with CFD technology ?

CFD is the best method to analyze the air flow of building ventilation. It can provide the detailed and obvious simulation result, for example, indoor airflow distribution and temperature and velocity fields around the outdoor unit. These results will bring some good design advice to the architect or consultant before construction. In addition it's very fast and low cost.



# Piping Connection Kit

## Manifold pipe (For outdoor unit)



# Piping Connection Kit

## For S Series 2 Pipes System

Outdoor Unit	AVWT-228~AVWT-424 (24HP~44HP)	AVWT-444~AVWT-510 (46HP~54HP)	AVWT-530~AVWT-636 (56HP~66HP)	AVWT-648~AVWT-848 (68HP~88HP)
Manifold Pipe1	HFQ-M32F	HFQ-M32F	HFQ-M462F	HFQ-M682F
Manifold Pipe2	-	HFQ-M32F	HFQ-M32F	HFQ-M32F
Manifold Pipe3	-	-	-	HFQ-M32F

## For S Series 3 Pipes Heat Recovery System

Outdoor Unit	AVWT-228 (24HP)	AVWT-250~AVWT-340 (26HP~36HP)	AVWT-360~AVWT-424 (38HP~44HP)	AVWT-444~AVWT-510 (46HP~54HP)	AVWT-530 (56HP)
Manifold Pipe1	HFQ-M202F	HFQ-M212F	HFQ-M302F	HFQ-M302F	HFQ-M462XF
Manifold Pipe2	-	-	-	HFQ-M212F	HFQ-M212F
Manifold Pipe3	-	-	-	-	-

Outdoor Unit	AVWT-550~AVWT-636 (58HP~66HP)	AVWT-648~AVWT-680 (68HP~72HP)	AVWT-700~AVWT-720 (74HP~76HP)	AVWT-740~AVWT-848 (78HP~88HP)
Manifold Pipe1	HFQ-M462XF	HFQ-M462XF	HFQ-M682XF	HFQ-M682XF
Manifold Pipe2	HFQ-M302F	HFQ-M212F	HFQ-M302F	HFQ-M302F
Manifold Pipe3	-	HFQ-M212F	HFQ-M212F	HFQ-M302F

## For W Series 2 Pipes System

Outdoor Unit	AVWT-210~AVWT-280 (22HP~24HP)	AVWT-250~AVWT-380 (26HP~40HP)	AVWT-400~AVWT-570 (42HP~60HP)
Manifold Pipe1	HFQ-M22F	HFQ-M32F	HFQ-M32F
Manifold Pipe2	-	-	HFQ-M32F

## For W Series 3 Pipes Heat Recovery System

Outdoor Unit	AVWT-202~AVWT-212 (22HP~24HP)	AVWT-250~AVWT-344 (26HP~36HP)	AVWT-360~AVWT-380 (38HP~40HP)	AVWT-400~AVWT-570 (42HP~60HP)
Manifold Pipe1	HFQ-M202F	HFQ-M212F	HFQ-M302F	HFQ-M302F
Manifold Pipe2	-	-	-	HFQ-M302F

## Branch pipe (For indoor unit) first branch pipe

### For S Series 2 Pipes System

Outdoor Unit HP	8 to 10	12 to 16	18 to 24	26 to 54	56 to 66	68 to 112
Branch Pipe	HFQ-102F	HFQ-162F	HFQ-242F	HFQ-302F	HFQ-462F	HFQ-682F

### For S Series 3 Pipes Heat Recovery System

Outdoor Unit HP	8 to 10	12 to 16	18 to 24	26 to 36	38 to 54	56 to 66	68 to 112
Branch Pipe	HFQ-M282F	HFQ-M452F	HFQ-M562F	HFQ-M692F	HFQ-M902F	HFQ-462XF	HFQ-682XF



# Piping Connection Kit

## Branch pipe (For indoor unit) first branch pipe

For W Series 2 Pipes System

Total Indoor Unit Hp	Lower than 6	6 to 8.99	9 to 11.99	12 to 15.99	16 to 17.99	18 to 21.99	22 to 25.99	Over 26
Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6	31.75	38.1
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88	19.05	19.05
Branch Pipe	HFQ-102F	HFQ-102F	HFQ-102F	HFQ-162F	HFQ-162F	HFQ-242F	HFQ-242F	HFQ-302F

For W Series 3 Pipes Heat Recovery System

Total Indoor Unit Hp	Lower than 6	6 to 8.99	9 to 11.99	12 to 15.99	16 to 17.99	18 to 21.99	Over 22
Low Pressure Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6	28.6
High/Low Pressure Gas(mm)	12.7	15.88	19.05	22.2	22.2	22.2	25.4
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88	15.88

## First branch pipe~ last branch pipe

For S Series 2 Pipes System

Total Indoor Unit HP	Lower than 6	6 to 8.99	9 to 11.99	12 to 15.99	16 to 17.99	18 to 25.99	26 to 35.99	36 to 55.99	56 to 57.99	58 to 67.99	Over 68
Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6	31.75	38.1	41.3	44.5	50.8
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88	19.05	19.05	22.2	22.2	25.4
Branch Pipe	HFQ-102F	HFQ-102F	HFQ-102F	HFQ-162F	HFQ-162F	HFQ-242F	HFQ-302F	HFQ-302F	HFQ-462F	HFQ-462F	HFQ-682F

For S Series 3 Pipes Heat Recovery System (3 pipes portion)

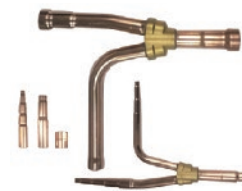
Total Indoor Unit HP	Lower than 6	6 to 8.99	9 to 11.99	12 to 15.99	16 to 17.99	18 to 21.99	22 to 25.99	26 to 35.99	36 to 55.99	56 to 57.99	58 to 67.99	Over 68
Low Pressure Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6	28.6	31.75	38.1	41.3	44.5	50.8
High/Low Pressure Gas(mm)	12.7	15.88	19.05	22.2	22.2	22.2	25.4	28.6	31.75	38.1	41.3	44.5
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88	15.88	19.05	19.05	22.2	22.2	25.4
Branch Pipe	HFQ-M142F	HFQ-M282F	HFQ-M282F	HFQ-M452F	HFQ-M562F	HFQ-M562F	HFQ-M692F	HFQ-M692F	HFQ-M902F	HFQ-462XF	HFQ-462XF	HFQ-682XF

## Last Branch Pipe~Indoor Unit

Indoor Unit	Pipe Size (Ømm)		Max. Liquid Pipe Length
	Gas Pipe	Liquid Pipe	
7kBtu/h~14kBtu/h (1.5-4kW)	12.7	6.35	15
17kBtu/h~18kBtu/h (5-5.6kW)	15.88	6.35*1	15
22kBtu/h~54kBtu/h (11-16kW)	15.88	9.53	40
76kBtu/h (22.5kW)	19.05	9.53	40
96kBtu/h (28kW)	22.2	9.53	40

Notes: \*1. When liquid pipe length of indoor unit(07~18kBtu/h) is more than 15m, please change the liquid pipe dimension from Ø6.35 into Ø9.53.

# Manifold Pipe Parameter

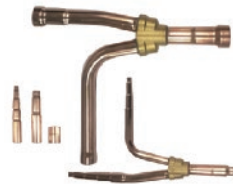


Model	Gas Line	Liquid Line	Reducer fo Gas Line	Reducer fo Liquid Line
HFQ-M22F#ES				
HFQ-M32F#ES				
HFQ-M462F#ES				
HFQ-M682F#ES				

Model	Low Pressure Gas Line	High Pressure Gas Line	Liquid Line	Reducer for Low Pressure Gas Line	Reducer for High Pressure Gas Line	Reducer for Liquid Line
HFQ-M202F#ES						
HFQ-M212F#ES						
HFQ-M302F#ES						

Unit: mm, ID: Inner Diameter,OD: Outer Diameter

Branch Pipe Parameter



Model	Gas Line	Liquid Line	Reducer for Gas Line	Reducer for Liquid Line
HFQ-102F#ES				
HFQ-162F#ES				
HFQ-242F#ES				
HFQ-302F#ES				
HFQ-462F#ES				
HFQ-682F#ES				

Unit: mm, ID: Inner Diameter,OD: Outer Diameter

Branch Pipe Parameter



Model	Low Pressure Gas Line	High Pressure Gas Line	Liquid Line	Reducer for Low Pressure Gas Line	Reducer for High Pressure Gas Line	Reducer for Liquid Line
HFQ-M142F#ES						
HFQ-M282F#ES						
HFQ-M452F#ES						
HFQ-M562F#ES						
HFQ-M692F#ES						
HFQ-M902F#ES						

Unit: mm, ID: Inner Diameter, OD: Outer Diameter

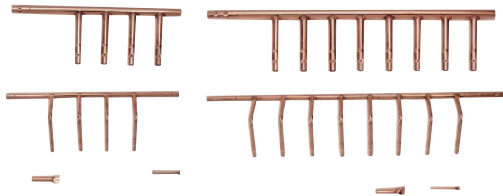
\*with or without insulation, please contact our sales person or professional engineers



Branch Pipe Parameter

Reference to the total capacity of the indoor units after the Branch-pipes

Total L.U.Capacity kBtu/h (HP)	Branch-pipe	Number of Branches
48~76 (5~8)	HFQ-104HF#ES	4 branches
48~96 (5~10)	HFQ-168HF#ES	8 branches



Model	Gas Line	Liquid Line	Expander	Closing Pipe
HFQ-104HF#ES				(gas pipe)  (2 pc)
				(liquid pipe)  (2 pc)
HFQ-168HF#ES				(gas pipe)  (6 pc)
				(liquid pipe)  (6 pc)

Unit: mm, ID: Inner Diameter,OD: Outer Diameter

Nuts connector is a good choice for mini VRF under 6 HP. No welding required in the installation.

Picture	Model	Description
	HFQ-052F#EN	Nuts branch pipe (Gas & liquid, Adapters)
	H7D-17013A	Double nuts connector for Φ6.35 copper pipe
	H7D-17013B	Double nuts connector for Φ9.53 copper pipe
	H7D-17013C	Double nuts connector for Φ12.7 copper pipe
	H7D-17013D	Double nuts connector for Φ15.88 copper pipe

Optional Parts

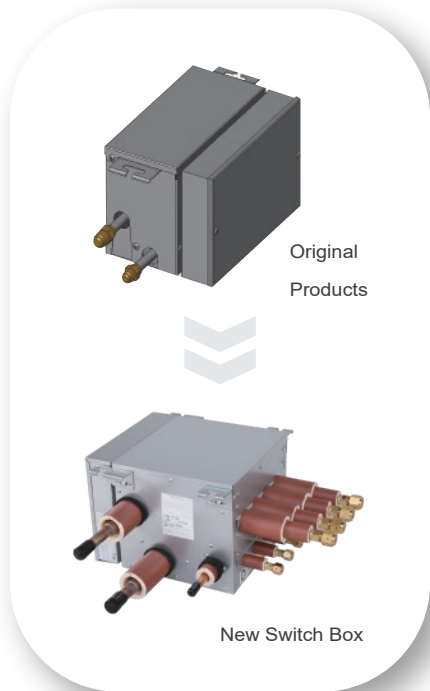
Switch Box







Introduction

Used for heat recovery systems to achieve simultaneous cooling and heating in a system, it is very important to realize installation flexibility and reduce costs.

Advantage

- Enrich the products (1,4,8,12,16) .
- Maximize capacity to 16kW or more.
- Require no drain pipes or drainage connections.
- Provide compact and lightweight design.
- Combine between single branch and multi-branch flexibility.
- Enable fewer connections, hooks and service parts for easy installation.





Model			Single Branch		Multi Branch				
			HCHS-N06X(A)	HCHS-N10X(A)	HCHM-N04X(A)	HCHM-N08X(A)	HCHM-N12X(A)	HCHM-N16X(A)	
Appearance									
Electrical	Power Supply	-	AC 1Φ,220-240V/50/60Hz						
	Power Consumption	W	5	5	11.2	22.4	33.6	44.8	
	Current	A	0.1	0.1	0.2	0.4	0.6	0.8	
Maximum Total Capacity Index		kW	16	28	44.8	85	85	85	
Number of Branches		-	1	1	4	8	12	16	
Maximum Capacity Index per Branch		kW	-	-	28	28	28	28	
Maximum Connectable Indoor Units per Branch		pics	8	8	8	8	6	6	
Dimmensions (H x W x D)		mm	191×301×214	191×301×214	260×303×352	260×543×352	260×783×352	260×1023×352	
Refrigerant		-	R410A						
Refrig -erant Piping	Outdoor Unit Side	Gas Line (High and Low Pressure Side)	mm (in.)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ25.4 (1)	Φ28.58 (1-1/8)
		Gas Line (Suction Gas)	mm (in.)	Φ19.05 (3/4)	Φ19.05 (3/4)	Φ25.4 (1)	Φ28.58 (1-1/8)	Φ28.58 (1-1/8)	Φ31.75 (1-1/4)
		Liquid Line	mm (in.)	Not Included	Not Included	Φ12.7 (1/2)	Φ12.7 (1/2)	Φ15.88 (5/8)	Φ19.05 (3/4)
	Indoor Unit Side	Gas Line	mm (in.)	Φ15.88 (5/8)	Φ19.05 (3/4)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ15.88 (5/8)
		Liquid Line	mm (in.)	Not Included	Not Included	Φ9.52 (3/8)	Φ9.52 (3/8)	Φ9.52 (3/8)	Φ9.52 (3/8)
Net Weight		kg	6	6	14	25	36	47	
Noise Level	Operation Sound	dB (A)	33	33	31	31	34	34	
	Max Sound	dB (A)	46	46	43	46	48	49	


Note:  
Please contact our professional engineer when the IDU capacity is over 16kW.

## Optional Parts


### Drain Pump

Model	Power supply	Consumption	MAX. Lift(mm)	Applicable models	HPS-F133E HPS-F363E	HPS-151
HPS-F133E	AC 220~240V(50/60Hz)	9±1.5 W	900	For Ceiling ducted type(2.8~7.1kW)		
HPS-F363E	AC 220~240V(50/60Hz)	9±1.5 W	900	For Ceiling ducted type(8.0 ~16kW)		
HPS-151	AC 220~240V(50/60Hz)	9±1.5 W	600	External type,for general purpose(22.4~28kW)		


### 3D Air-flow Panel

Panel Model	Applicable Models	Outer Dimensions H×W×D(mm)	Interface Dimension H×W(mm)	Picture
HP-DB-NA	For ceiling ducted type (Low- height) 1.7~5.0kW	180×950×70	750×130	
HP-EB-NA	For ceiling ducted type (Low- height) 5.6~7.1kW	180×1220×70	1020×130	

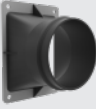
### Hi-Motion

Model	Applicable Models	Unit Size D×H(mm)	Picture
HCM-S01E	all indoor unit except 4-way cassette type and mini 4-way cassette type	100×30	

### Motion Sensor


Model	Applicable Models	Picture
HPS-MACN	Mini 4-way cassette type	
HCM-01E	4-way cassette type	

### Duct Adapter

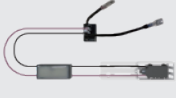
Model	Applicable Models	Picture
HFL-56CSA	4-way cassette type and mini 4-way cassette type	

## Optional Parts



### Humidity Sensor

Model	Applicable Models	Picture
HCHR-S01E	4-way cassette type,Console,Ceiling Ducted Type (Low-height)	

### Air Pure

Model	Applicable Models	Picture
HJK-ELZA	4-way cassette, mini 4-way cassette	

### Filter

Filter model	Filter Dimension H×W(mm)	Frame Dimension H×W(mm)	Applicable Models	Picture
HF-224L-FE	782×165	1055×463	22.4kW High static ceiling ducted.	
HF-280L-FE	1050×165	1245×463	28kW High static ceiling ducted.	
KW-PP1Q	582×236	620×262	2.2kW-4.3kW High static ceiling ducted.	
KW-PP2Q	832×236	870×262	5.0-7.1kW High static ceiling ducted.	
KW-PP3Q	832×316	870×342	8.4-11.2kW High static ceiling ducted.	
KW-PP4Q	1230×316	1270×342	14.0-16.0kW High static ceiling ducted.	