Hisense

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HCAC-CA-GPX04

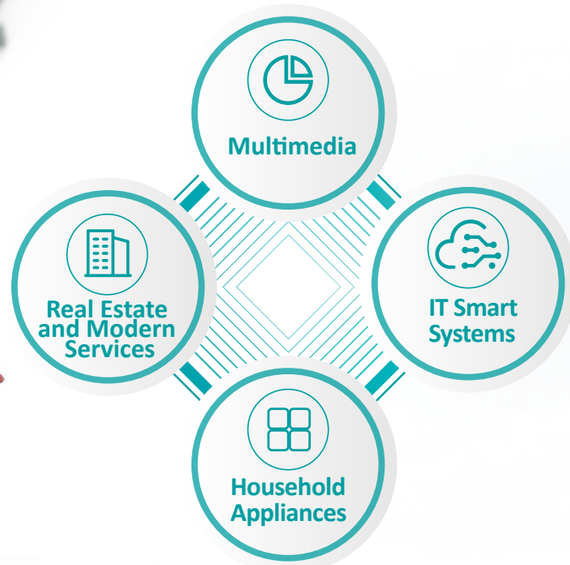


Hisense VRF

# AIR CONDITIONING SOLUTION

# COMPANY PROFILE


Hisense Group is a well-known large-scale electronic information industry group company.Supported by various technologies, Hisense's industrial pattern covers multimedia, household appliances, IT smart systems and real estate and modern services.Based on technology and focusing on innovation-oriented culture, its scientific and efficient technological innovation system makes Hisense always be at the forefront of the counterparts.




Qingdao Hisense HAVC Equipment Co., Ltd. is a wholly owned subsidiary of Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd., who is a joint-venture of Hisense and Hitachi (changed to Johnson Control Hitachi in 2015) and was established in 2003. It integrates technology development for commercial and residential central air conditioners, product manufacturing, marketing and service as a whole. With the full support of all the shareholders such as Hisense and Johnson Control Hitachi, Hisense VRF is committed to becoming the market leader in the industry.


**AIR CONDITIONING SOLUTION**

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Enhanced Anti-corrosion Solution
Electrical & Electronics
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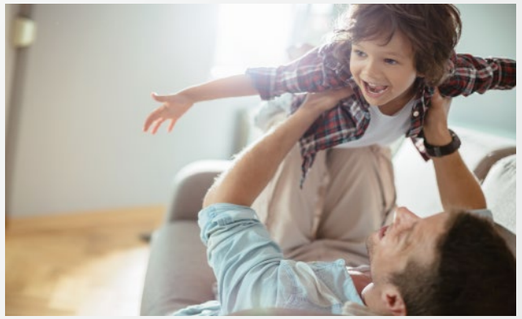


## COMFORT


Smart Air Supply
Lower Noise
Clean Fresh Air
Auto Refrigerant Temperature Control (ART)
VIP Mode


## OUTDOOR UNIT


Hi-FLEXi S Heat Recovery
Hi-FLEXi S Series
Hi-FLEXi X Series
Hi-Smart H Series
Hi-FLEXi W Series


## CONTROL SYSTEM


Individual Control
Centralized Control
Intelligent Control


## EFFICIENCY


Efficient Heat Exchange
Intelligent Defrosting Logic
Steady Air Discharge


## FLEXIBILITY

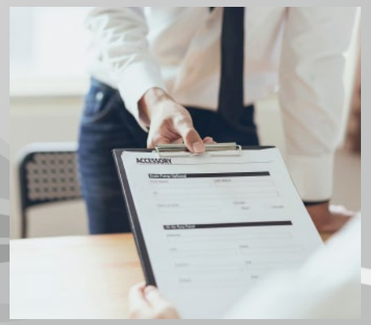

Design Flexibility
Installation Convenience
Service & Maintenance Simplicity


## INDOOR UNIT


4-Way Cassette Type / Mini 4-Way Cassette Type
1-Way Cassette Type
2-Way Cassette Type
Console Type
Ceiling Ducted Type(AC/DC Low-height)
Ceiling Ducted Type(High/Low Static Pressure)
Wall Mounted Type
Ceiling & Floor Type
Floor Concealed Type
All Fresh Air Indoor Unit
Heat Recovery Ventilator
AHU Connection KIT


## ACCESSORY


Engineering Tools
Optional Part

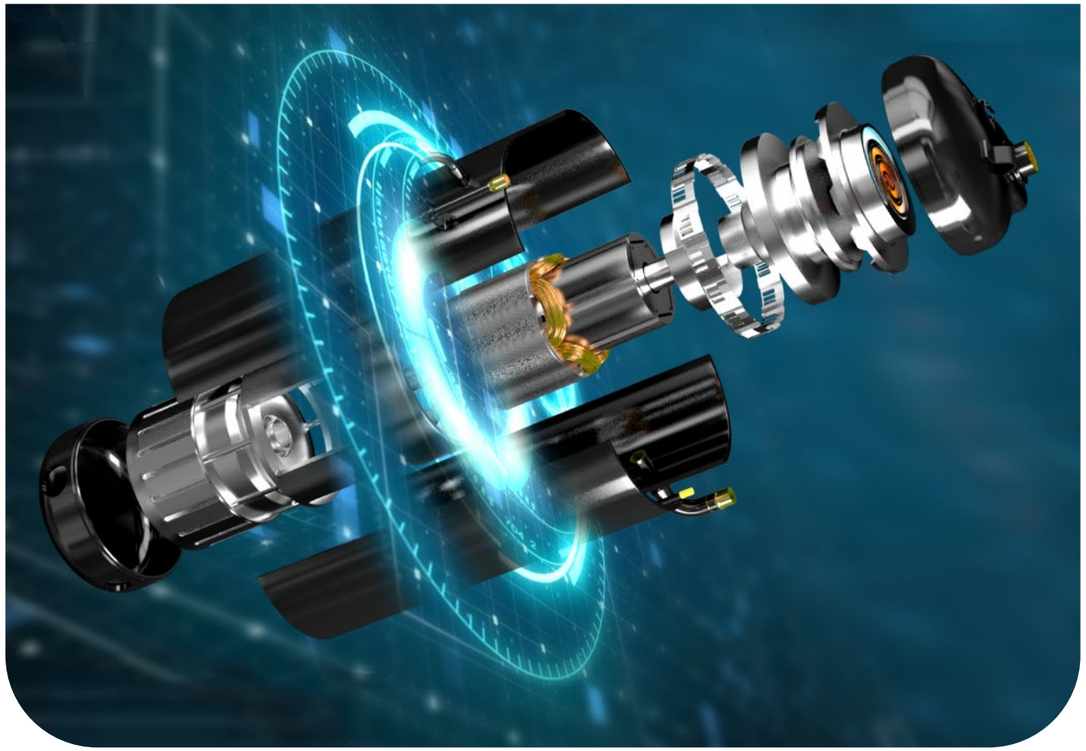
Hisense VRF

# RELIABILITY

- Refrigerant Circuit
- Enhanced Anti-corrosion Solution
- Electrical & Electronics
- System & Operation
- Indoor Unit Reliability

AIR
CONDITIONING
SOLUTION

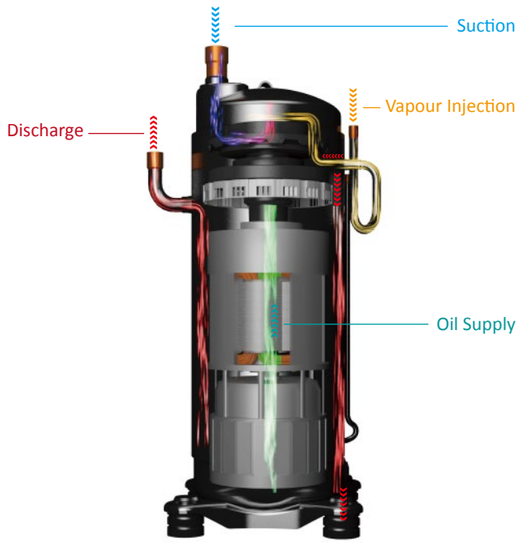
# Refrigerant Circuit



## Revolutionary HVAC Compressor

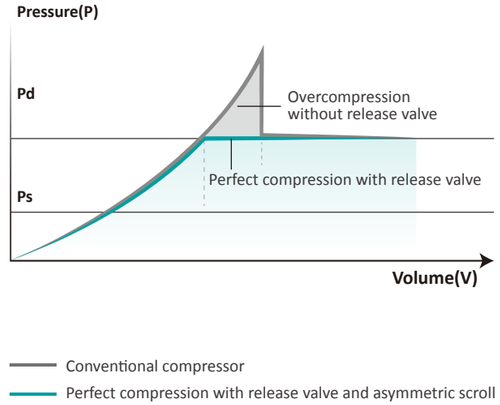
### Vapour injection technology

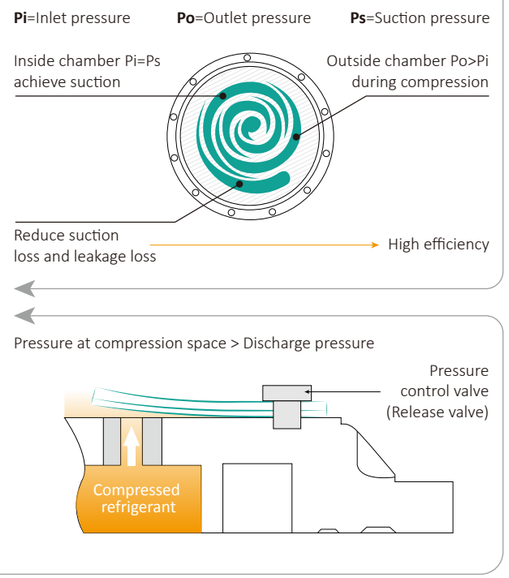
New generation scroll compressor is now patented with higher performance capability vapour injection technology, increasing capacity upto 25% compared to conventional scroll compressor with same amount of power consumed.




### Efficient energy usage

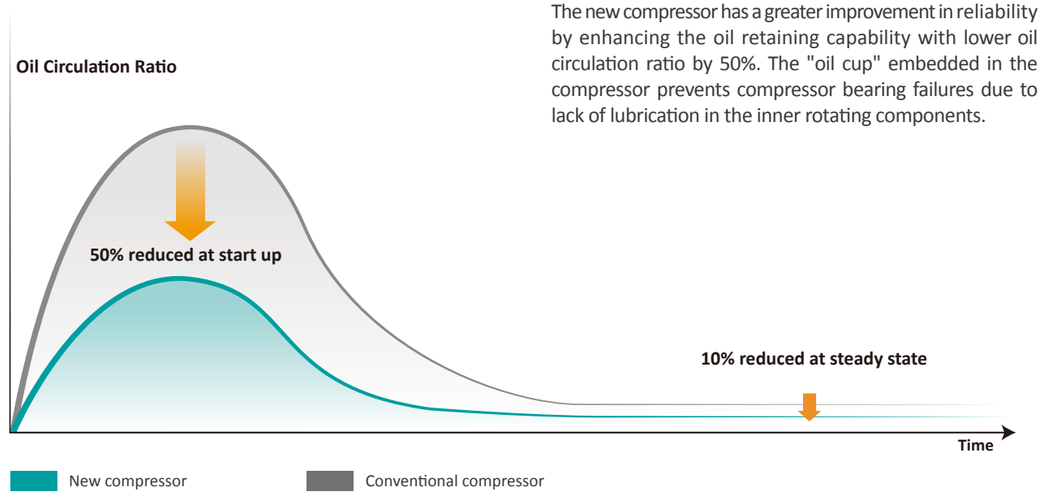
Wasted power is reduced by minimizing leakage and anti-overcompression while compressing refrigerant gas with asymmetric scroll and patented release valves.




### Enhanced oil level retaining capability

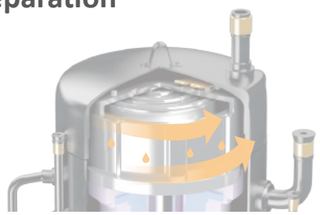
The new compressor has a greater improvement in reliability by enhancing the oil retaining capability with lower oil circulation ratio by 50%. The "oil cup" embedded in the compressor prevents compressor bearing failures due to lack of lubrication in the inner rotating components.



# Enhanced Anti-corrosion Solution

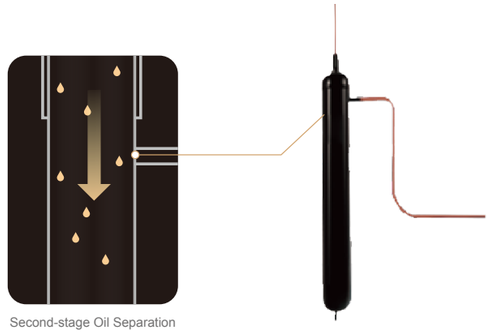
## Oil Separation and Oil Return

### 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.

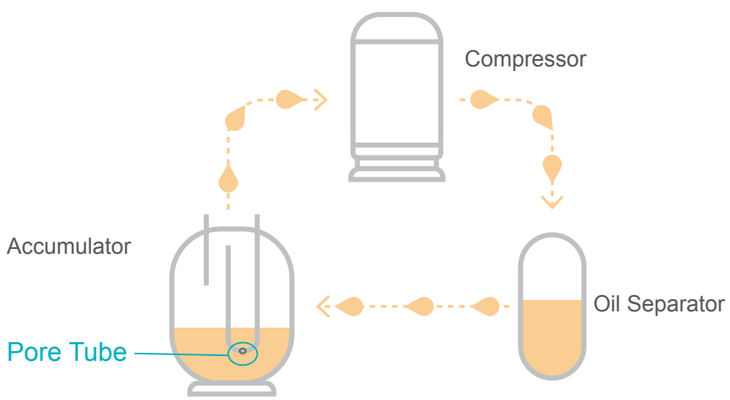


Second-stage Oil Separation

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

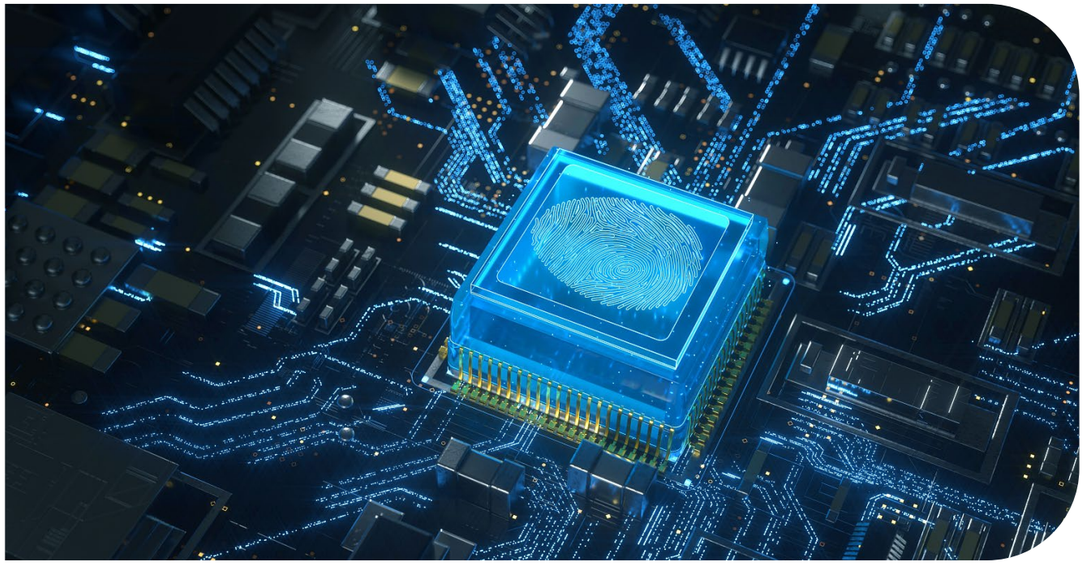
The accumulator adopts pore tube oil return technology with a built-in fine strainer, which not only ensures oil balance between compressors within one module, but also plays an important role in the oil balance between modules.
Besides this, the system implements oil-return function based on compressor 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.




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

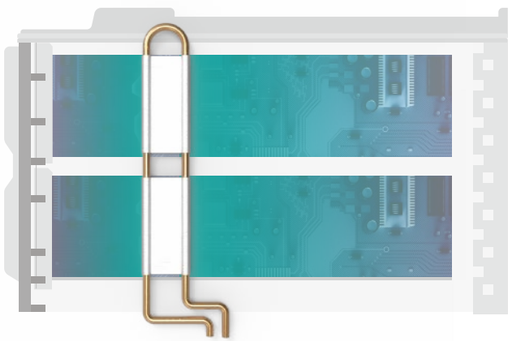

| | | |
|---|---|---|
| ❶ **Front Panel** | Galvanized steel treated with zirconium & 100μm~180μm epoxy zinc rich primer + pure polyester paint coating. | |
| ❷ **Heat Exchanger** | Black fin with epoxy resin & hydrophilic film . | |
| ❸ **Electrical Box** | Galvanized steel treated with zirconium & 50μm~120μm pure polyester. | |
| ❹ **Fan Motor** | Coated with 10μm ~30μm Acrylic Resin coating Thickness: 10μm ~30μm | |
| ❺ **Top Grill** | ❻ **Motor Bracket** | ❼ **Protection Net** |

# Electrical & Electronics



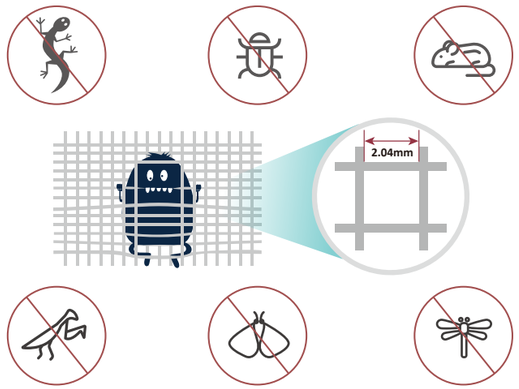
## Patented 360° fitted refrigerant cooling technology

To maintain the lifespan of the delicate electronics, Hisense VRF uses refrigerant cooling technology. As such, overcoming poor heat dissipation and high ambient temperature issue to maintain efficient operation even at harsh environment.



## Insect protection design

Special design nettings are placed on insect easy-entry openings, effectively preventing unnecessary electrical component damages




## Quality electrical and magnetism precaution measure

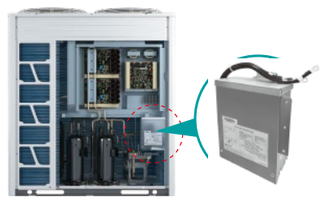
Air-conditioning unit produced by Hisense VRF requires strict electromagnetic protection and preventive quality assurance to not allow electromagnetic wave from other devices surrounding the unit to interfere the normal operation and function of our unit and vice versa onto other equipment. Another typical damage causes of electronic and electrical failure is sudden high external power source exerted into the electronic compositions like thunder strike during a storm. As to overcome such inevitable natural phenomenon to cause damage, 4000V sudden high voltage test is infused into the long list of electromagnetism quality test in our internationally qualified test lab.

## Safety is always the priority

Electricity might be just a tiny sting to human in low voltage. However, electrical boards on large air-conditioners drives under high voltages and components with high human exposure rate like the cover panels. Electricity leakage during rainy days are exposing human to high safety risk. Hence electrical leakage, radio active emission, proper earthing, extreme high temperature, fire retardation and electrical insulation are strictly essential tests to be done on Hisense VRF equipment to meet more than standards and certifications.

## Voltage Protector Reserved (Optional)

Too low or too high voltage can easily cause damage to electronic components. Hi-FLEXi S mavo series cooling only unit has reserved the space for assembling the voltage protector, which can be an effective solution to protect outdoor units from any voltage spikes. Meanwhile, it’ s helpful for checking the phase sequence error or phase loss, convenient for commission and maintenance.



# System & Operation

## Severe Reliability Quality Tests

### Non-affecting reliability transportation

As common as items being transported by logistic transportation on road and sea, the constant vibration during shipment would accelerate wear and tear rate eventually pulling down the reliability of the unit. To make sure Hisense VRF's capability to perform more than just coping to 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.

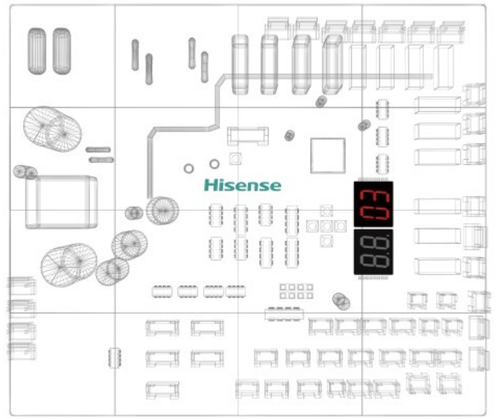
### Extreme weather withstand ability

Hisense VRF air-conditioning units are put into extreme factory laboratory tests numerous times with various setting and condition parameters like intense low outdoor temperature, extreme high indoor temperature and vice versa to ensure Hisense VRF performs at its best, rain or shine.

## Self-Diagnosis & Self-protection Measures

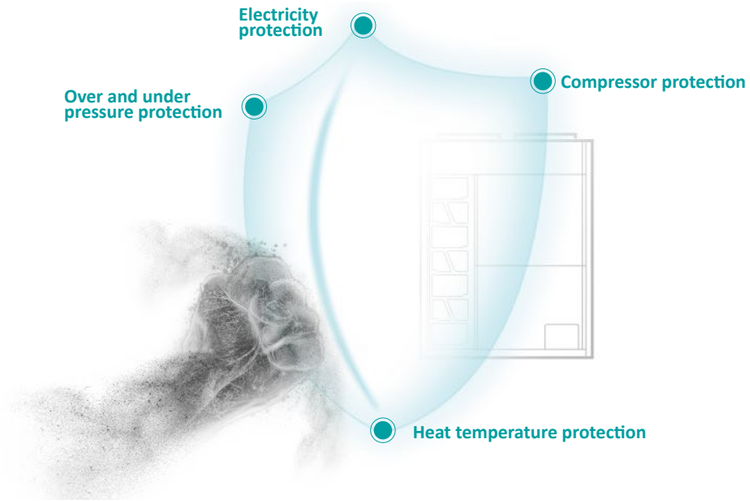
### Self-diagnosis

Operation monitoring and maintenance are made simpler by having the AC unit tells you what and where is wrong with them. Alarm codes will be flashed out when an error or breakdown occurs. Extremely helpful for installers during test run and also end-users to understand what's going on. Besides alarm codes, operating status and parameters like history temperature, pressure, compressor frequency and etc are traceable on controllers and the outdoor unit, easing service maintenance and troubleshooting.




### Self-protection measures

Hisense VRF is capable of keeping themselves protected with algorithms embedded to make necessary protective decisions and measures based on different sensor readings and parameters. Including compressor protection, heat and temperature protection, over and under pressure protection and electricity protection.

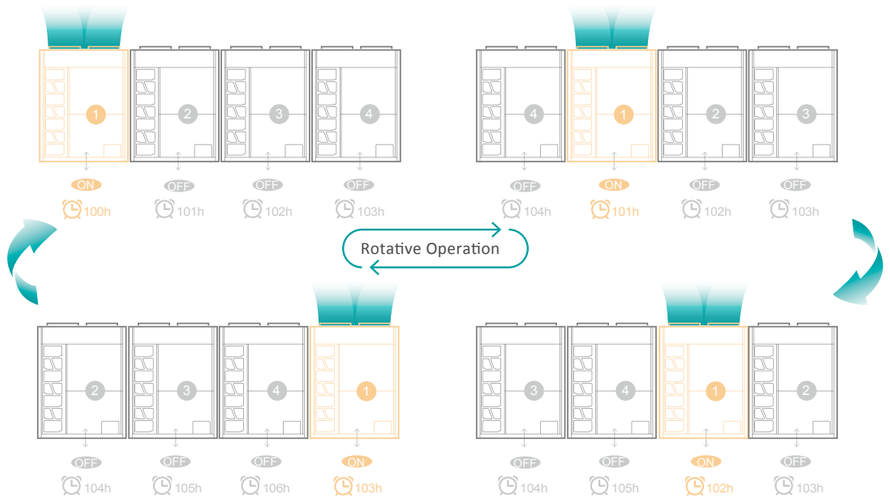


# System & Operation

## Smart Rotative Operation & Double Back-up Protection

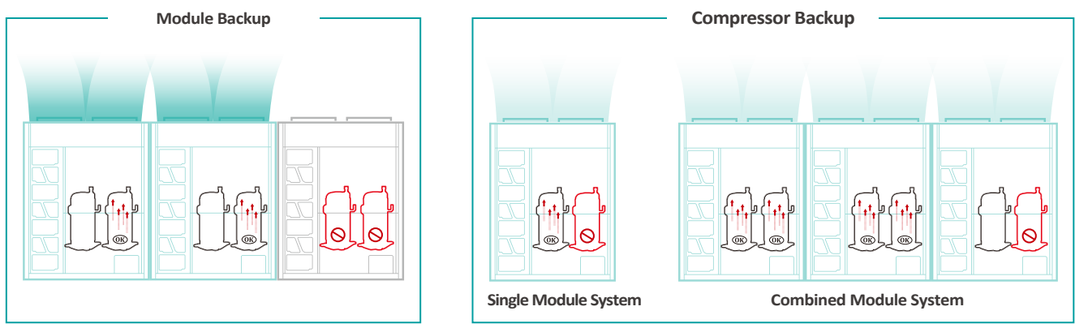
### Smart rotative operation

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.



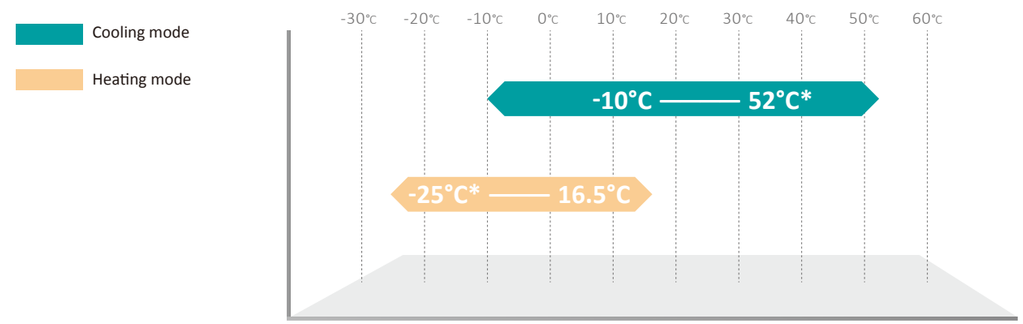

### Double back-up protection

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℃~52℃ and -20℃~-25℃, 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.

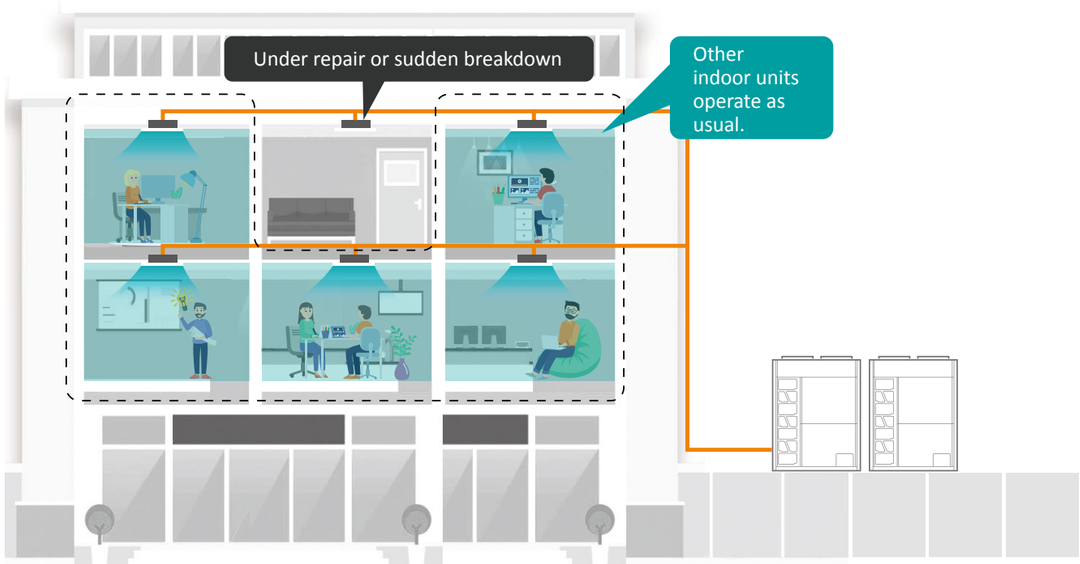

**Note**

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

# Indoor Unit Reliability

## Emergency Power-off Without Disturbance

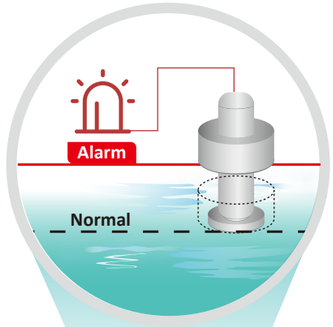
To maintain the whole system's continual operation even when there is a breakdown occur within a system , Hisense VRF is capable to isolate the malfunction unit from the others while conducting restoration and maintaining continuous operation of other units simultaneously. Especially practical for retail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

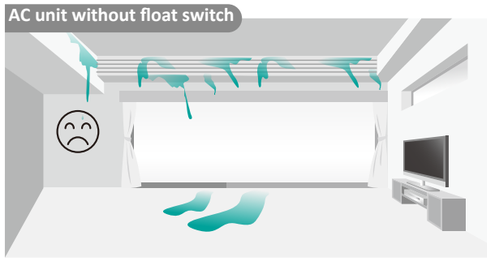


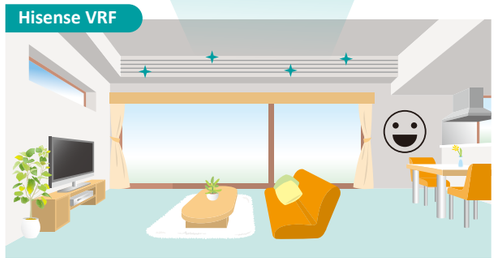

*Preliminary setting is unnecessary

## Condensate Water Leakage Protection

Indoor units have build-in water-leakage float switches. Alarming warnings will be displayed on controllers when condensate reaches a certain level. Saving your ceilings and carpets from being soaked in time when drain pipes are clogged or drain pump breakdowns.




## Effective Drainage Solution

### Anti-corrosion drain pan

Conventional drain pans made of metal are prone to corrosion after continual exposure in moisture and air. Such also favours to mold and algae reproduction. Hisense indoor unit built-in drain pans made out of ABS coated foam are best keeping from corrosion and smooth condensate discharge, effectively prevents mold and algae growth. Not to mention, the vast improvement in thermal insulation and anti-aging properties.

### Transparent drain pipe

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

Hisense VRF

# EFFICIENCY

- Efficient Heat Exchanger
- Intelligent Defrosting Logic
- Steady Air Discharge

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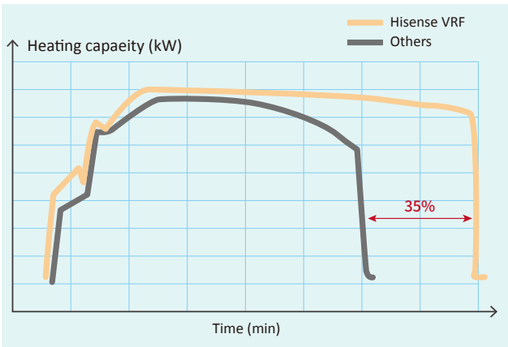
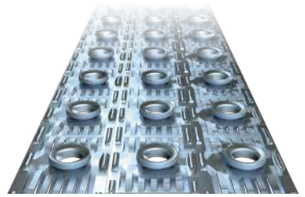
# Efficient Heat Exchanger

## New advanced corrugated fin design

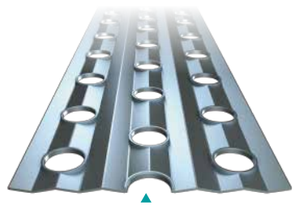
The heat exchanger of Hisense VRF adopts the new advanced corrugated fin design. With this new design, larger amount of fins can be allocated into the heat exchanger, increasing 20% heat exchange surface area maximally compared with the last generation fin and the heating capability increase 10% averagely.

### Long-time Stable Heating Performance



Last generation fin

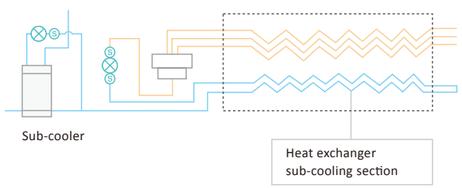


Latest corrugated fin

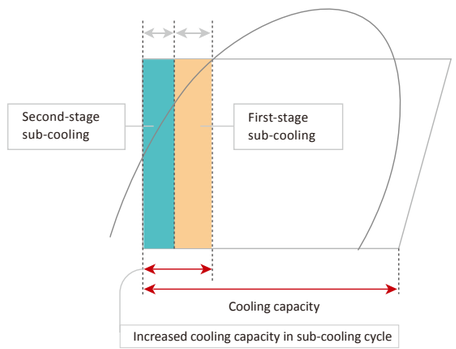
## Two-stage subcooling

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

Two-stage sub-cooling cycle diagram



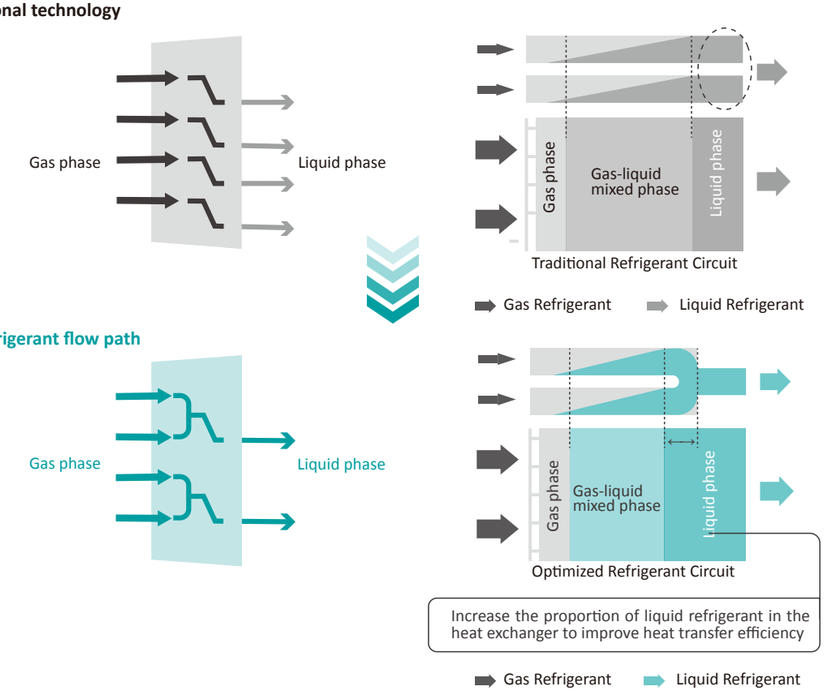

Two-stage sub-cooling pressure enthalpy diagram



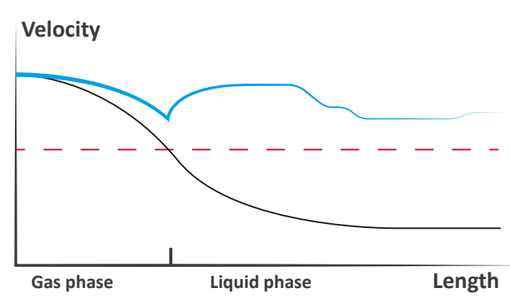

## Optimized refrigerant circuit

As refrigerant flows in the system, energy will be lost due to friction and other factors naturally especially when refrigerant change phase, latent heat are lost when gas turns to liquid. Whereby, as more heat is dissipated out , higher the heat exchanger efficiency is. By making full use of heat dissipation, refrigerant flow layout is maneuvered into 2 to 1 refrigerant flow path extends liquid refrigerant's occupancy and eventually the efficiency too.

**Conventional technology**




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

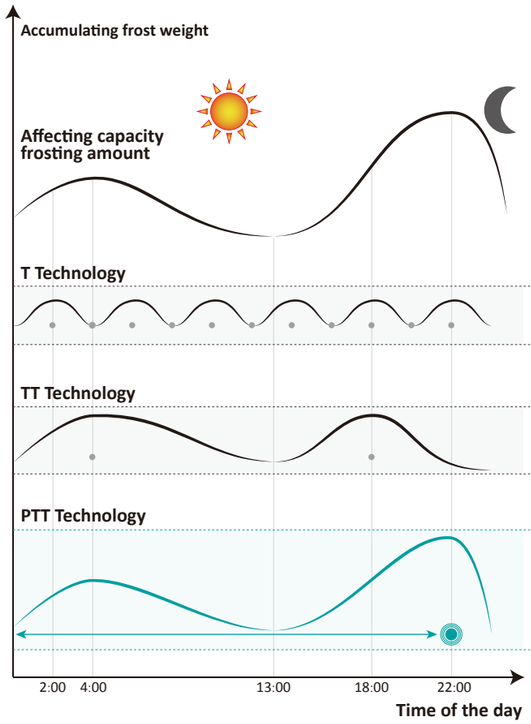



2 to 1 refrigerant circuit:
velocity is maintained same goes to the efficiency of refrigerant heat exchange.

Conventional refrigerant circuit:
Heat exchange slows down with decreased velocity. Efficiency is greatly reduced.

# Intelligent Defrosting Logic

## PTT defrosting mode




During cold freezing days where temperature is low and humid, water vapour in the air would solidifies into frost and any object under such environment would accumulate frost. As frosts pile up on the heat exchanger of an outdoor unit, it would need to be liquified and removed. An Intelligent Defrosting Logic could determine the perfect timing to defrost, saving unnecessary energy usage compare to conventional defrost measures, maximizing users' comfort indoors.

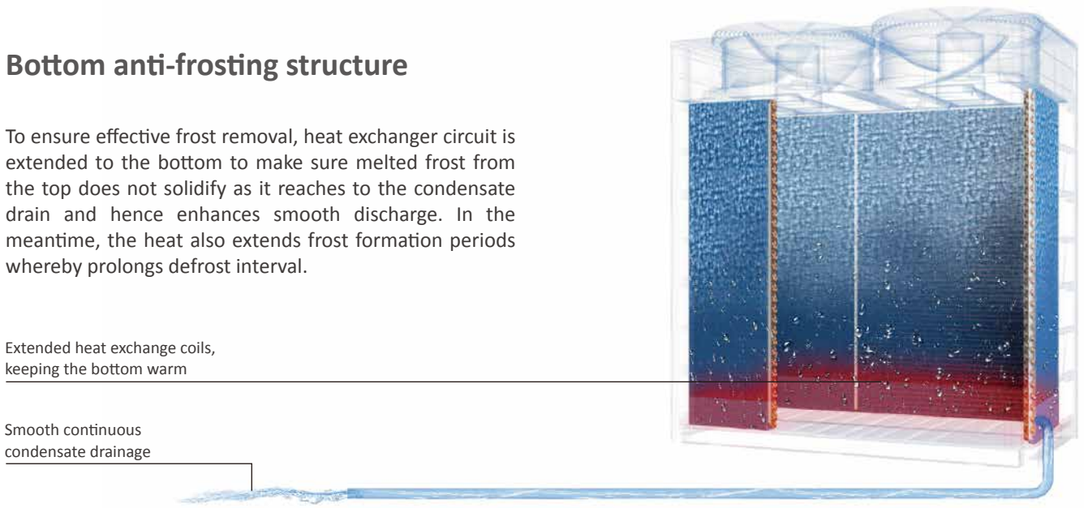
**Time defrosting**
High energy wastage and causing low indoor comfort

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

**Pressure, time and temperature defrosting**
High energy saving and efficient use of energy

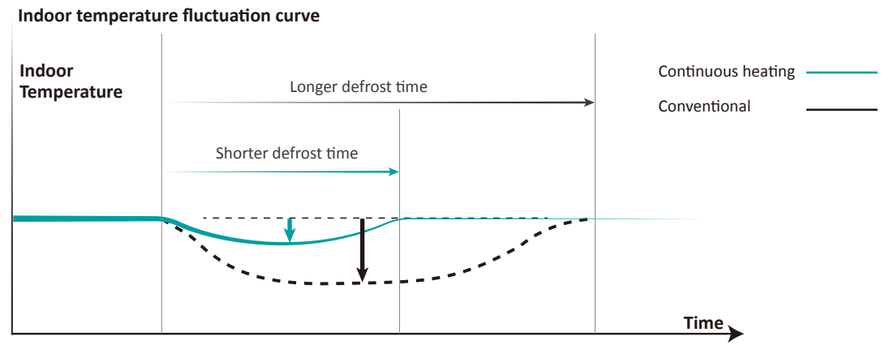
## Bottom anti-frosting structure

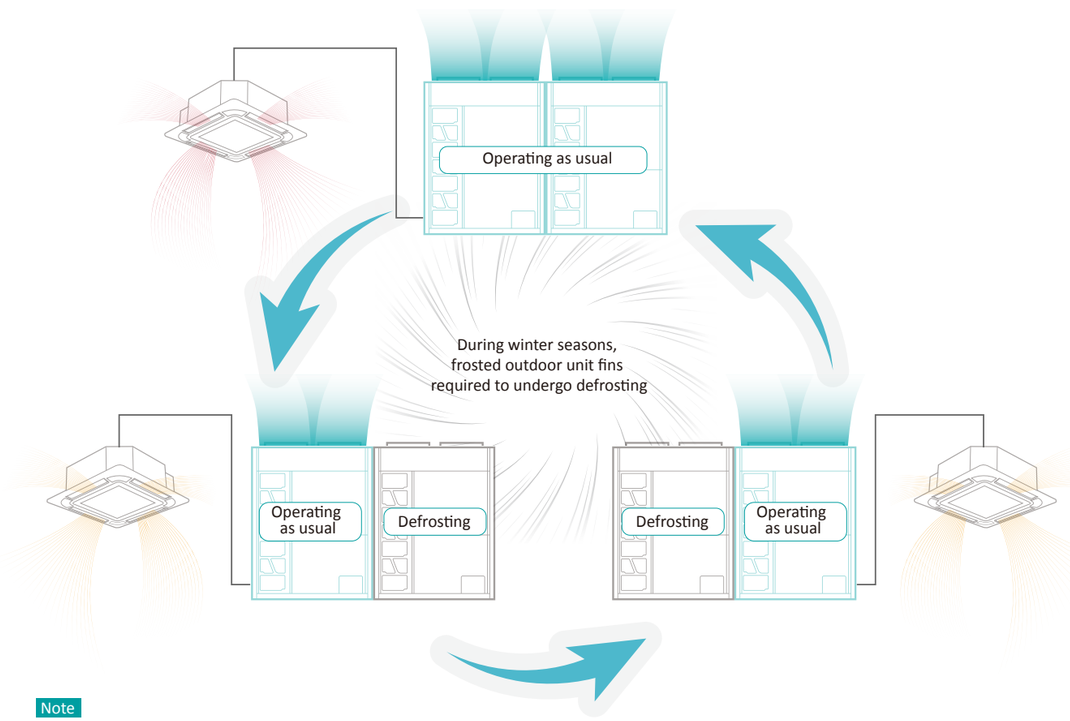
To ensure effective frost removal, heat exchanger circuit is extended to the bottom to make sure melted frost from the top does not solidify as it reaches to the condensate drain and hence enhances smooth discharge. In the meantime, the heat also extends frost formation periods whereby prolongs defrost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




## Continuous heating during defrost

Considering user's ultimate comfort in cold unbearable times, indoor heating can now be supplied continuously to prevent periodic idle intervals.



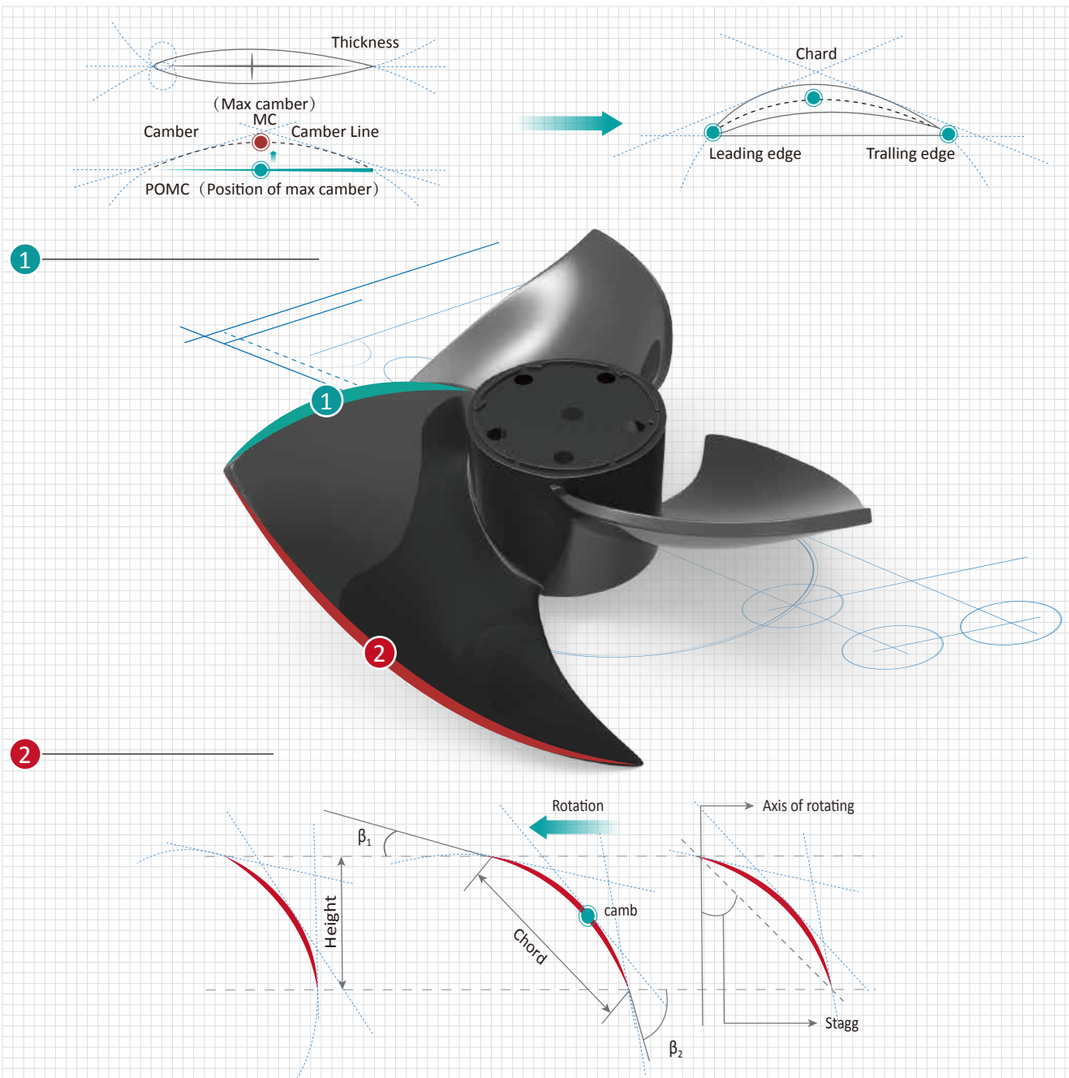




**Note**
Only available for module combinations and Hi-FLEXi S Heat Recovery.

# Steady Air Discharge

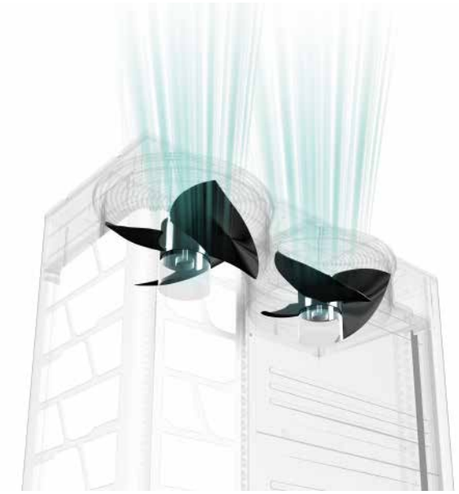
## High efficiency aerodynamic axial fan

The propeller bearing which acts as the joint connecting the propeller and motor are specially treated with anti-rain corrosion treatment and propeller made of fiber glass composite is now better corrosion resistance.
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 reduces noise of the propeller structure.




## Stepless-smooth fan speed control

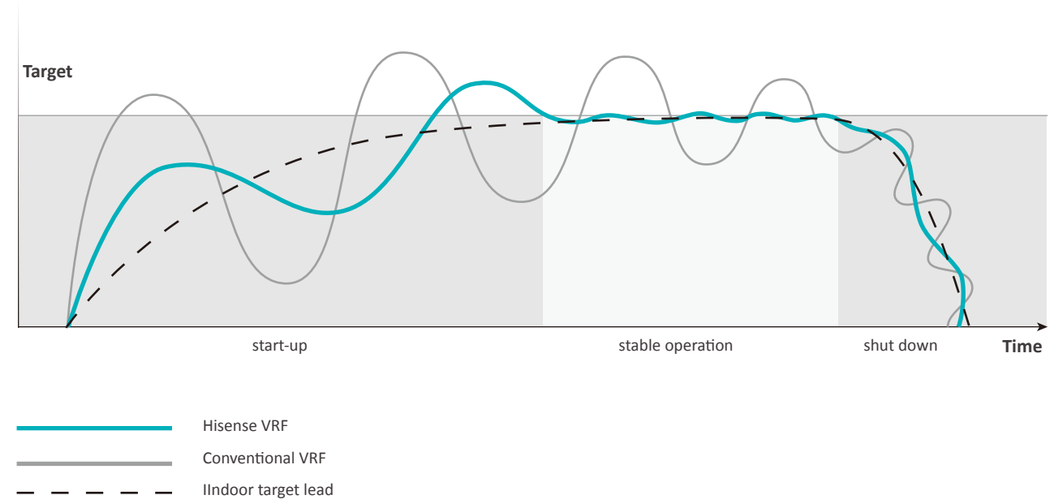
Inverter fan motors are now commonly used, where efficiency increase by 40%. Whereas in Hisense VRF, brushless DC fan motors are used, as it could further reduces power consumption and noise production than normal inverter motors.



Efficient axial fan

# High Precision Automatic Capacity Output Control

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.



Hisense VRF

# COMFORT

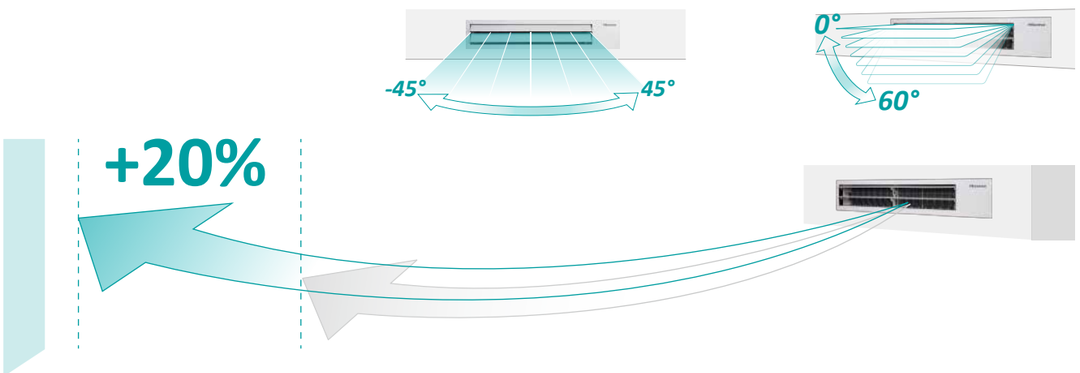
- Smart Air Supply
- Lower Noise
- Clean Fresh Air
- Auto Refrigerant Temperature Control (ART)
- VIP Mode

AIR CONDITIONING SOLUTION

# Smart Air Supply

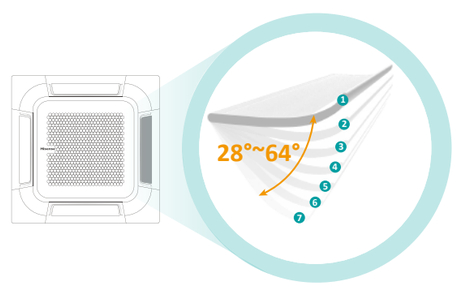
## 3D air-flow panel

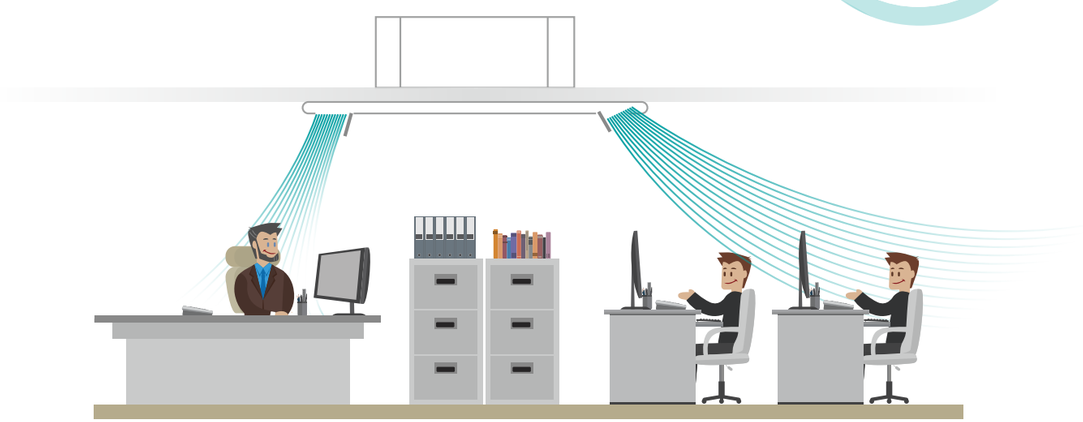
The panel is an optional accessories for AC and DC low height ducted unit. Save the hassle in buying normal louvers by using Hisense's luxurious looking smooth easy clean 3D air-flow panel. It has LED temperature and humidity level display perfect for hotel applications. Selectable wind settings from 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.




## Independent air direction control

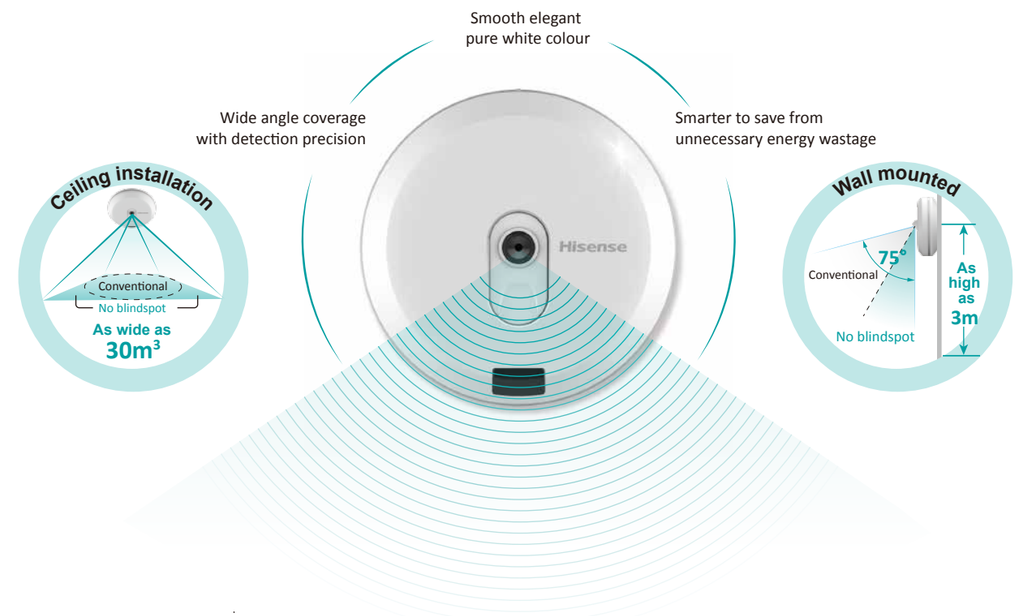
4-way cassettes louvers are now capable of individual control to freely choose how you want your AC unit supplies air according to different needs, applications and installation layout. Each louvers have 7 angle settings and maximum angle reach at 64°.



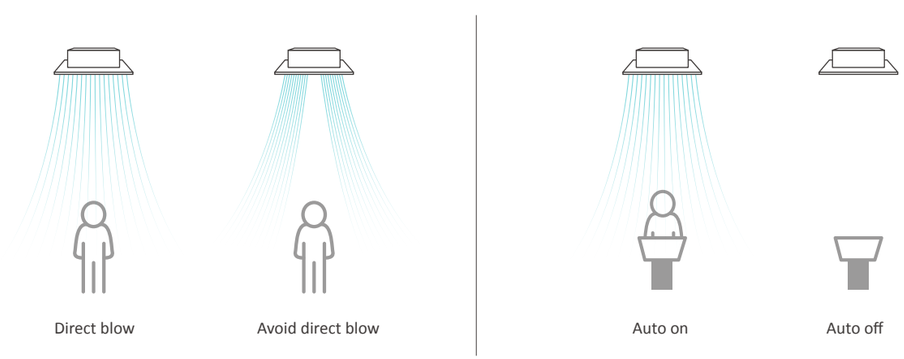
## Hi-Motion Sensor

Hi-motion, unbeatable style with elegant white circular design. Dynamic and practical with detection capability upto 3m distance and area of 30m². Boundaryless installation including wall mounted or ceiling attached to meet any space restrictions and interior designs.




## Motion Sensor

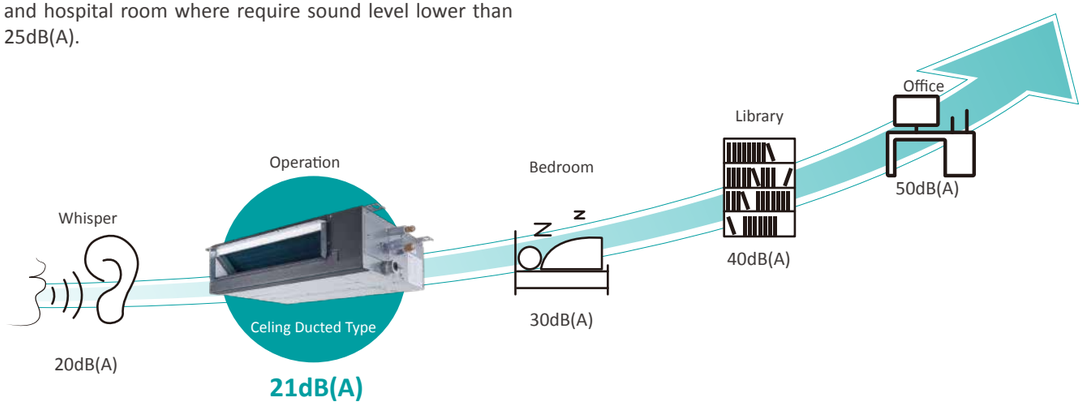
Save troubles in trying to constantly meet the comfort of peoples in offices, showrooms or even museums where human activities are constantly fluctuating with Motion Sensor (accessory for cassette units). The best part about motion sensors is that it would turn off your AC unit automatically when rooms are empty.



# Lower Noise

## Lower noise for indoor units

Hisense VRF offers indoor units with sound pressure level as low as 21dB(A). Perfectly blends into library, auditorium and hospital room where require sound level lower than 25dB(A).

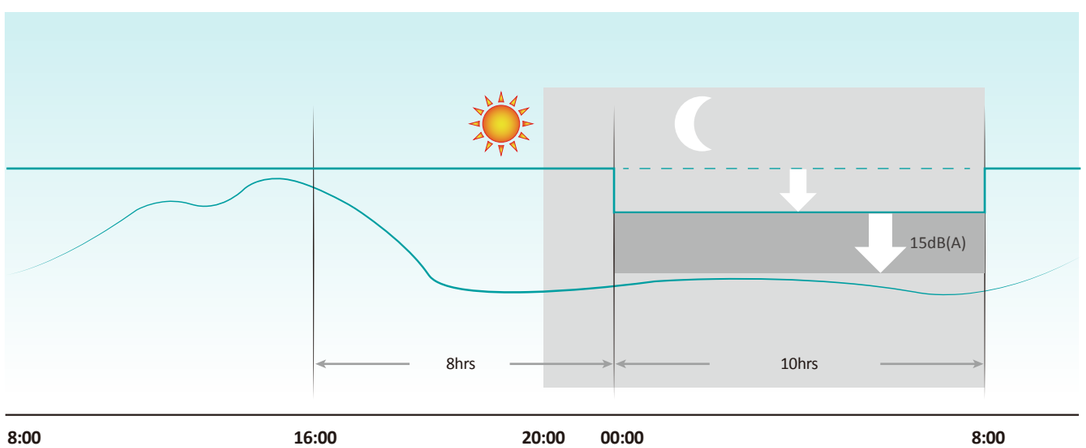



Note

The data was measured in an anechoic chamber, only the DC ceiling ducted type (AVE-05HJFDL) in low noise mode achieves 21dB.

## Night mode

When outdoor conditions call for special low noise requirements, like in cases where outdoor units are installed in indoor equipment rooms with poor soundproof walls or continuous night operating conditions. The night mode reduces sound pressure levels upto 30% routinely with flexible time intervals to meet different customer needs.



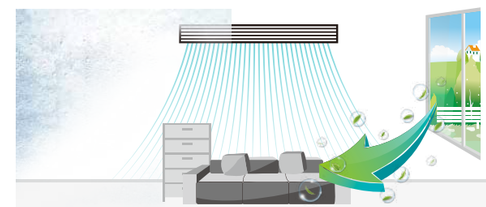

# Clean Fresh Air

## Humidity sensor

To keep up with the indoor quality requirements, Hisense VRF offers auto dehumidification function and such would require a humidity sensor accessory.

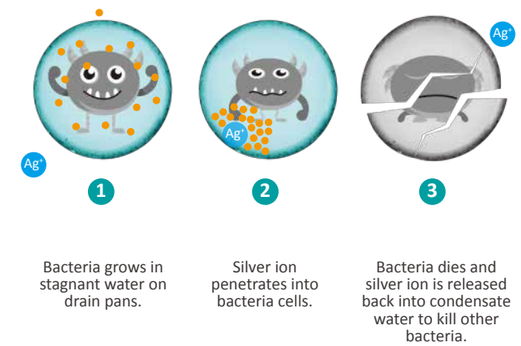
## Fresh air duct adapter

New Hisense VRF indoor units are now infused with a fresh air duct opening for 10% free fresh air introductory directly from outdoor air, reducing the need of fresh air systems for medium to small spaces.



## Silver ionizer

In Hisense VRF, silver ionizers are optionally infused in indoor units to disinfect drain pans where condensate water constantly stagnant.




## AirPure

Hisense VRF indoor unit equipped with AirPure kit can release lots of negative ions, about 20 million pcs/cc. These negative ions are carried throughout the room with air-conditioned air flow whereby obtaining air conditioning and air purification simultaneously.


Note

4-way Cassette, Mini 4-way Cassette, Console, Ceiling Ducted and the new Wall Mounted which will be launched at the end of 2020 can be equipped with the AirPure kit.

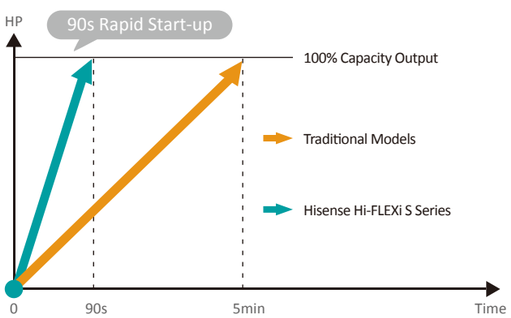
# Auto Refrigerant Temperature Control (ART)

As the name speaks for itself, variable refrigerant flow systems realize variable flow by controlling the amount of refrigerant supplied to the indoor units by running inverter motors and compressors variably. However, Hisense VRF steps up the normal VRF system with the new auto refrigerant temperature control technology to meet the indoor loads more accurately at a higher efficiency. Precise indoor supply temperature highly depending on the indoor unit refrigerant evaporating temperature, hence Hisense VRF has developed a breakthrough in wider refrigerant temperature control range from 2°C to 11°C.

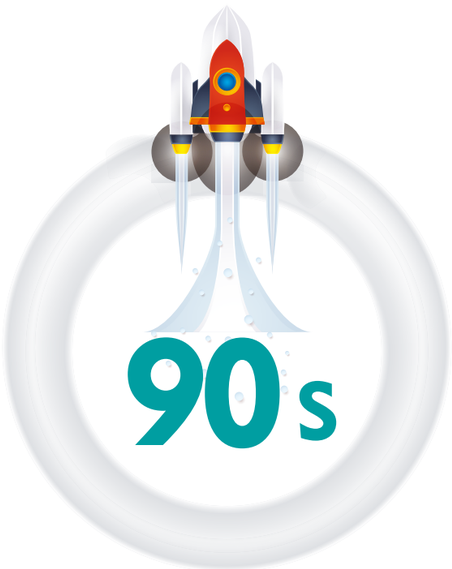


# 90 Second Rapid Heating Start-up

To keep you comfortable and cozy as fast as possible, Hisense VRF starts supplying warm air so rapidly with only just 90s reaching a 100% capacity output. Besides, even in extreme whether condition like -15°C outdoor temperature, Hisense VRF performance is tested with persisting capability to supply 40°C or higher warm air within 7 minutes.




*Taking 66HP as an example

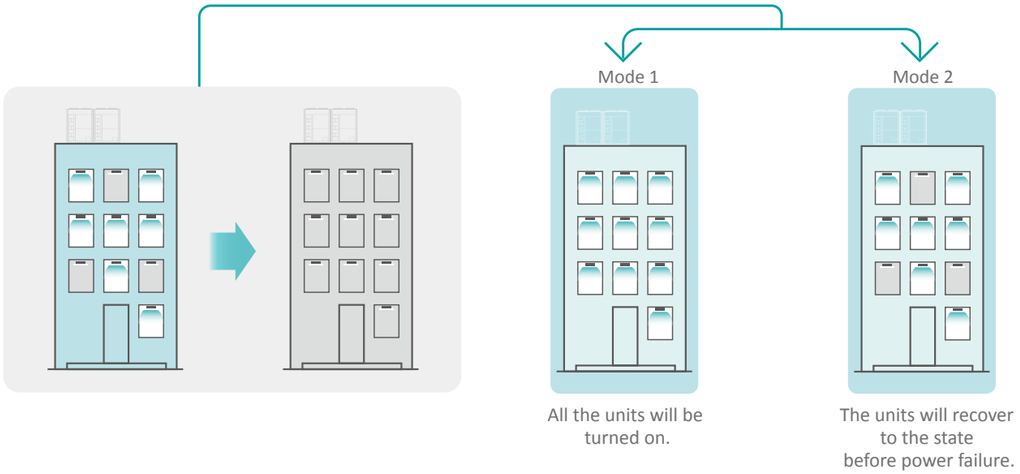



# VIP Mode

Hisense VRF offers VIP mode to give priority to the specific room, keeping them comfortable and satisfied as fast as possible and 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 set to VIP mode.


# Automatic Restart

Hisense indoor units are capable to restart automatically to the previous state whenever the power supply is shut off suddenly and restores immediately. When there is long power shortage, the default setting is to keep all the indoor units off when the power restores. Also there are two other settings for users' choice, recovering to the state before power failure or restarting all the indoor units.



Hisense VRF

# FLEXIBILITY

Design Flexibility

Installation Convenience

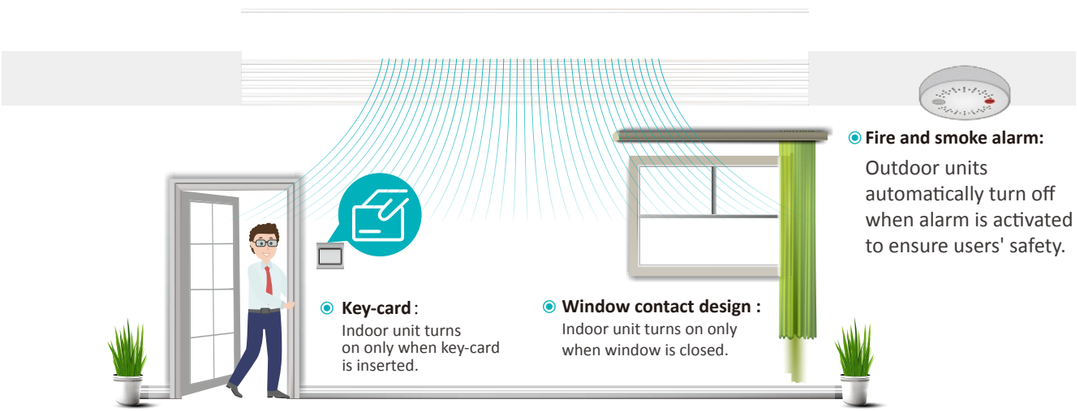
Service & Maintenance Simplicity

AIR
CONDITIONING
SOLUTION

# Design Flexibility

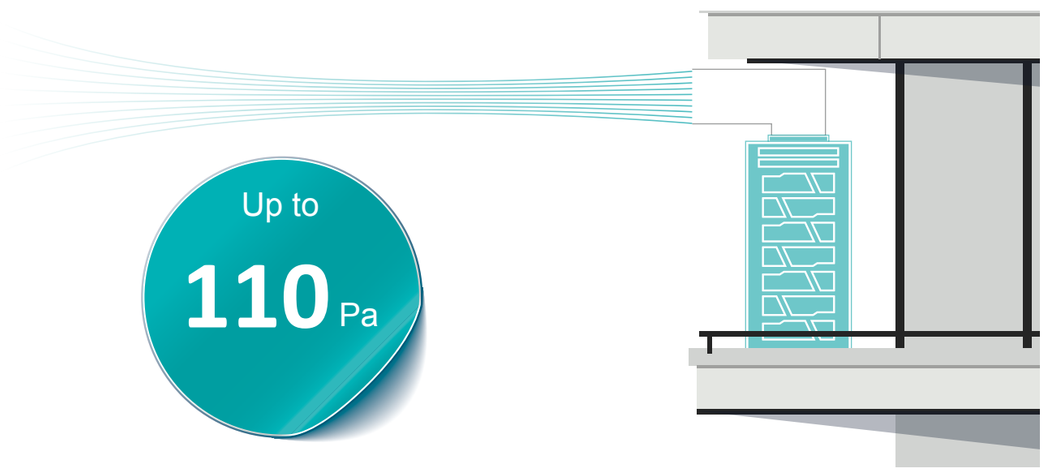
## Various device connection options

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

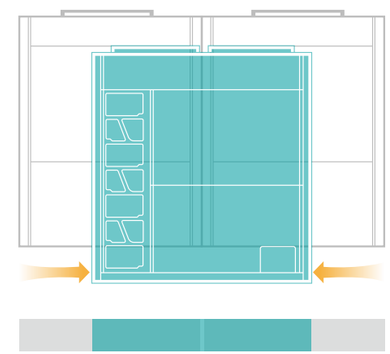
External static pressure is essential to determine the air discharge and duct connection distance. Hisense VRF's outdoor unit external static pressure is reachable upto 110Pa compare to the conventional 80Pa. Allowing longer ducting connection for better air discharge when are installed in the equipment platform that is not easy to exhaust.

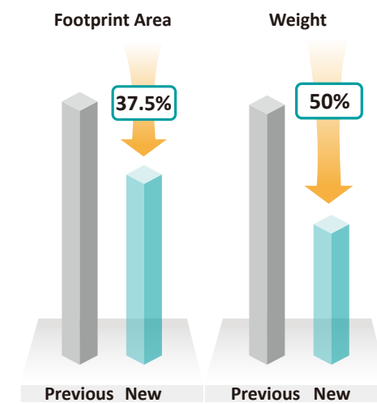



Note The initial setting is 80Pa. Can be set to 110Pa from the PCB on site.

## Larger capacity, minimizing footprint area

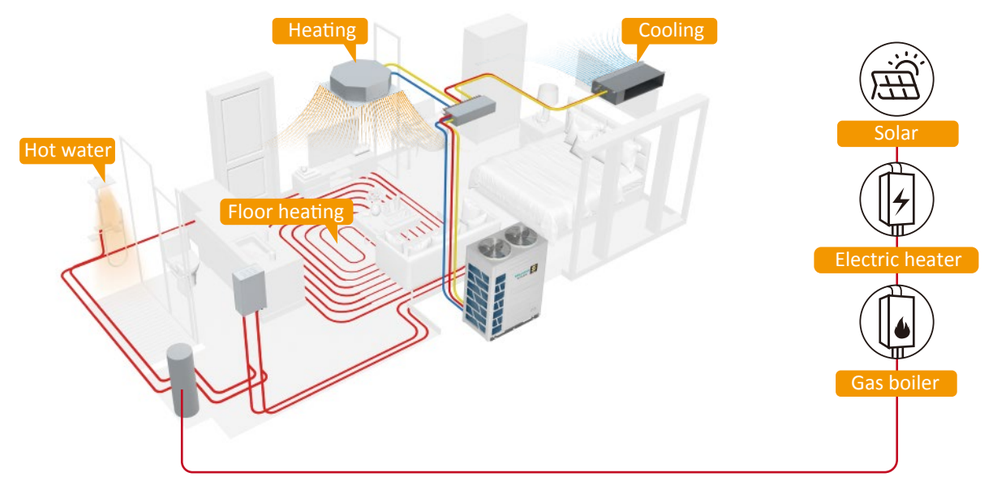
Hisense VRF outdoor units now possess larger capacity per single module unit. Reducing the installation floor space significantly also eliminates the necessity of modules for bigger capacity. Despite the beneficial space saving properties, same goes to the unit's weight per capacity too. Hence, offering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






## All in one renewable energy solution

Hisense VRF heat recovery series offers an ultimate solution to satisfy heating and cooling, domestic hot water supply, floor/wall/ceiling cooling and heating simultaneously. The heat recovery system is also compatible with any auxiliary heaters like solar, electric heater and gas boiler to supply additional energy to the system in unfavorable conditions.



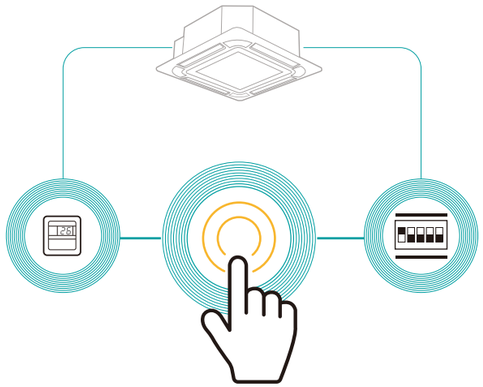
# Installation Convenience

## Compact and light-weight

With larger capacity per unit, Hisense VRF outdoor units are more compact in size with the largest capacity of 28HP single module, leading capacity of a single module in the market. Compact yet reduced overall weight makes transportation much convenient and even fit into elevators.

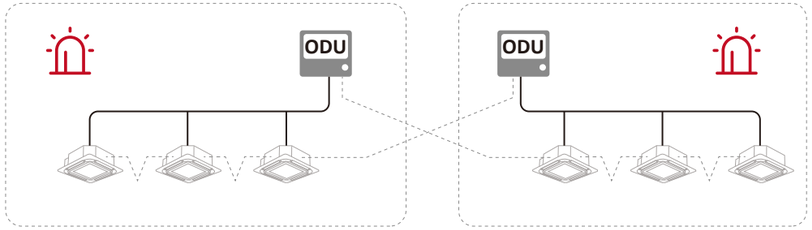

## One-touch test run

Test run is one of the essential part in testing and commissioning to make sure the HVAC system in a building works steadily and safely before hand over or soft opening. 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, both indoors and outdoors.



## Mistake impossible communication connection

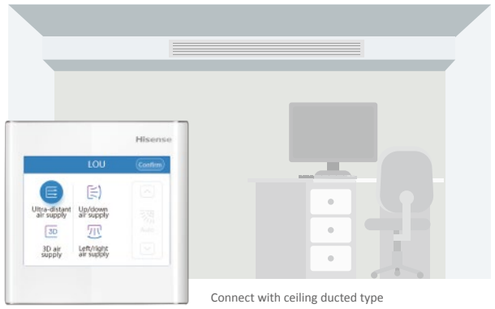
Communication line connections between outdoor unit to indoor units might be confusing when comes to long cables from the outdoors to the indoors and vise versa. It is often incorrectly connected and caused various errors affecting the end user's comfort levels. Despite of Hisense VRF's simple wiring connection ports, the outdoor unit itself could also check on the connections and display warnings when the connections are improper.



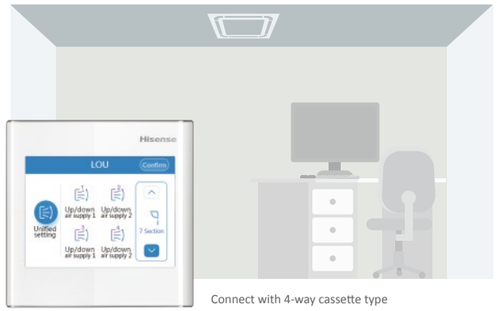

Indoor units from different systems are connected to the incorrect outdoor unit, alarm codes flashes out warning installers to make proper corrections.

## Intelligent matching idus

Match all kinds of hisense indoor units. If each air deflector can be controlled independently, the key will light. On the contrary, the key will dim and you can not click.



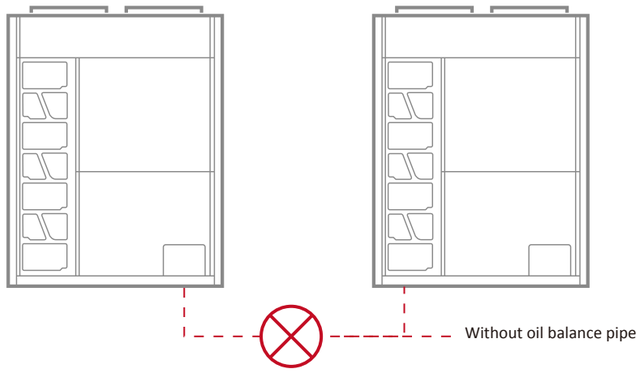

Connect with ceiling ducted type




Connect with 4-way cassette type

## Needless of oil balancing pipes

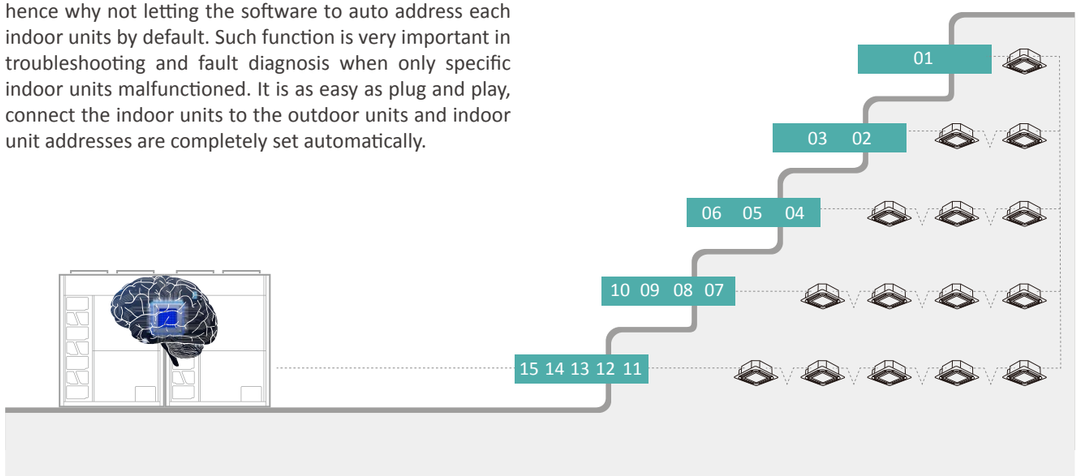
With effective and prominent oil return technology, perfect oil balance is achieved by the integration of the pore tube technology in the accumulator. It serves as an oil storage tank and supplies the perfect amount at the perfect time to the compressor. Hence oil balancing pipes creating extra cost and hassle during installment are unnecessary. Absence of oil balancing piping system, prevents system pressure and temperature fluctuations thus maintaining overall system's continuous stability.



# Service & Maintenance Simplicity

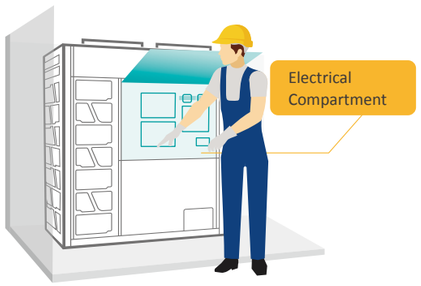
## Plug and play automatic addressing

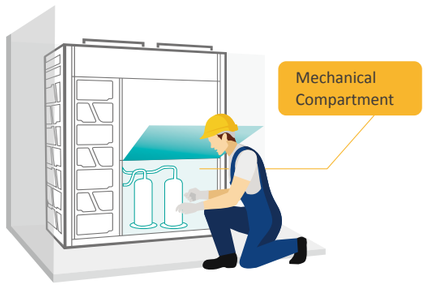
The necessity to address each units could be so troublesome hence why not letting the software to auto address each indoor units by default. Such function is very important in troubleshooting and fault diagnosis when only specific indoor units malfunctioned. It is as easy as plug and play, connect the indoor units to the outdoor units and indoor unit addresses are completely set automatically.




## Separated mechanical & electrical compartment

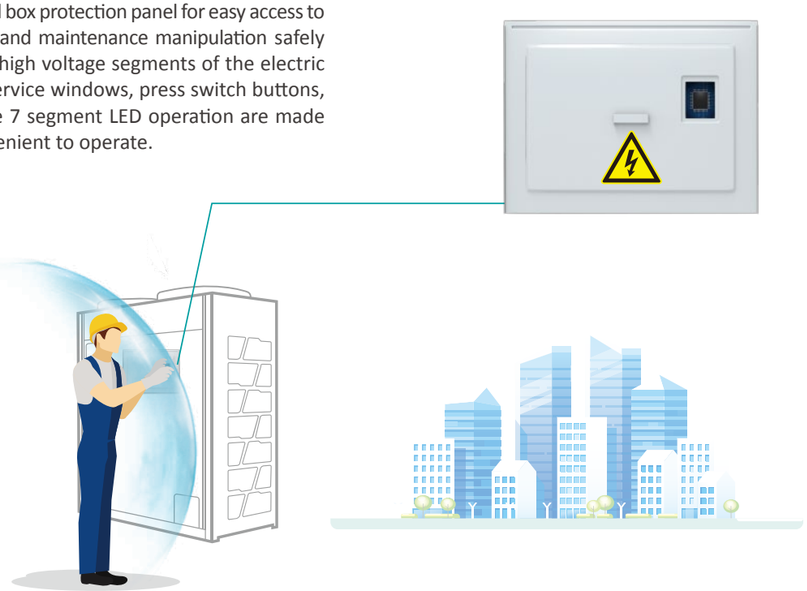
The outdoor unit's mechanical and electrical segments is now designed and optimized repositioned separately for a more organized maintenance. The electrical and electronics are placed on top of the compressors and accumulator to meet the practical law of center of gravity, hence minimizing toppling accidents and unnecessary vibration produced during operation. Besides, it also maximizes the heat dissipation of eletrical box to keep the electrical in a stable temperature by maximizing airflow passed by.



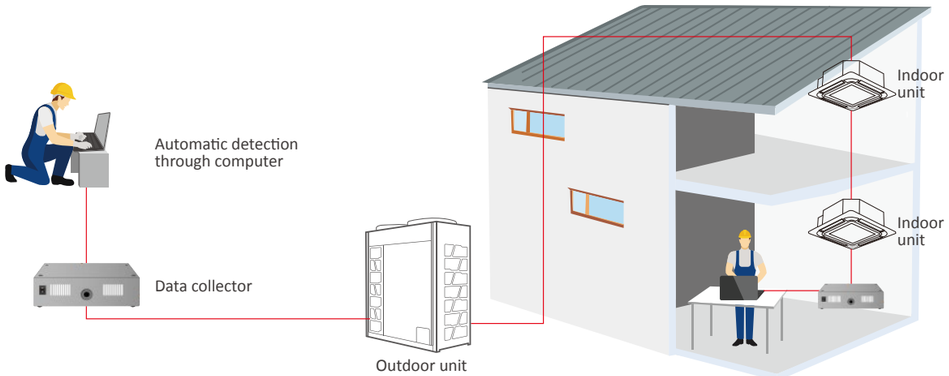

## Safe and convenient system management

The new outdoor units are equipped with a service window on top of the electrical box protection panel for easy access to parameters checking 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 made safer and more convenient to operate.



## Accurate intelligent system diagnosis

Exclusive Hisense Data Collector is another plug and play service maintenance tool for system monitoring purposes. Whereby various parameters can be monitored in real-time which made troubleshooting and prevention maintenance made so much more direct and simple. The Data Collector has boundlessness compatibility whereby any outdoor unit or indoor unit of the system can be connected with the data collector to obtain real-time readings of the whole system. Besides, it could do more than just system monitoring as indoor unit's state change is remotely manipulatable.



Hisense VRF

Hi-FLEXi S Heat Recovery

Hi-FLEXi S Series

Hi-FLEXi X Series

Hi-Smart H Series

Hi-FLEXi W Series

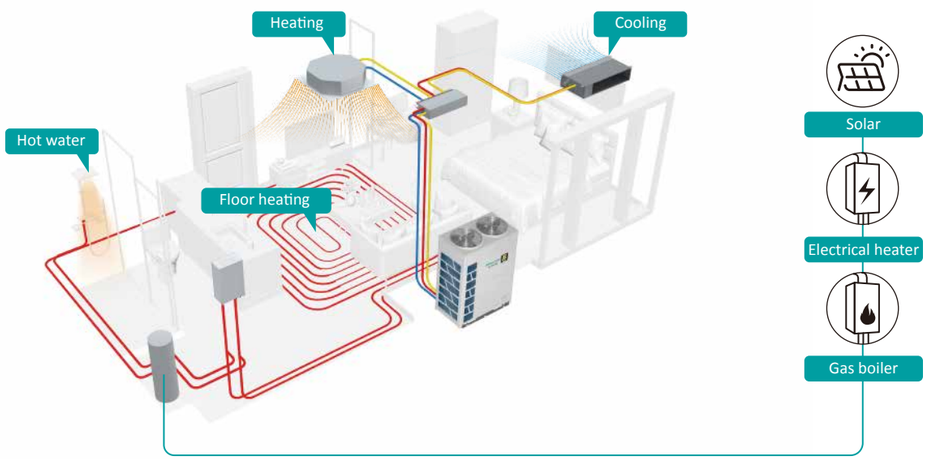
# OUTDOOR UNIT

AIR
CONDITIONING
SOLUTION

# Hi-FLEXi S Heat Recovery


## All in One Renewable Energy Solution

With S heat recovery series, cooling and heating of air can be realised simultaneously including water. During summer, it serves cool indoor rooms and warm water supply for night showers. With the same system, floor heating and fan coil unit heating and cooling can be done during season transition periods.

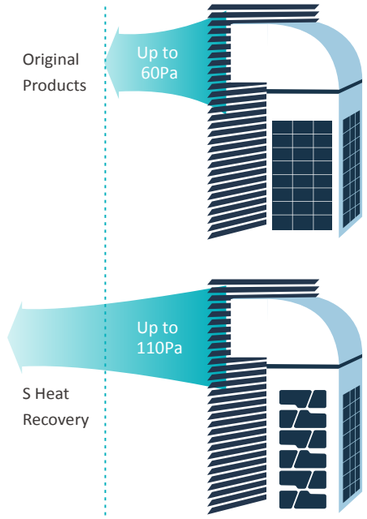



## 200% Connection Ratio

The powerful S heat recovery series outdoor units are connectable to indoor units up to 2 times of its own capacity with ratio of 200% for a more efficient and cost saving system.

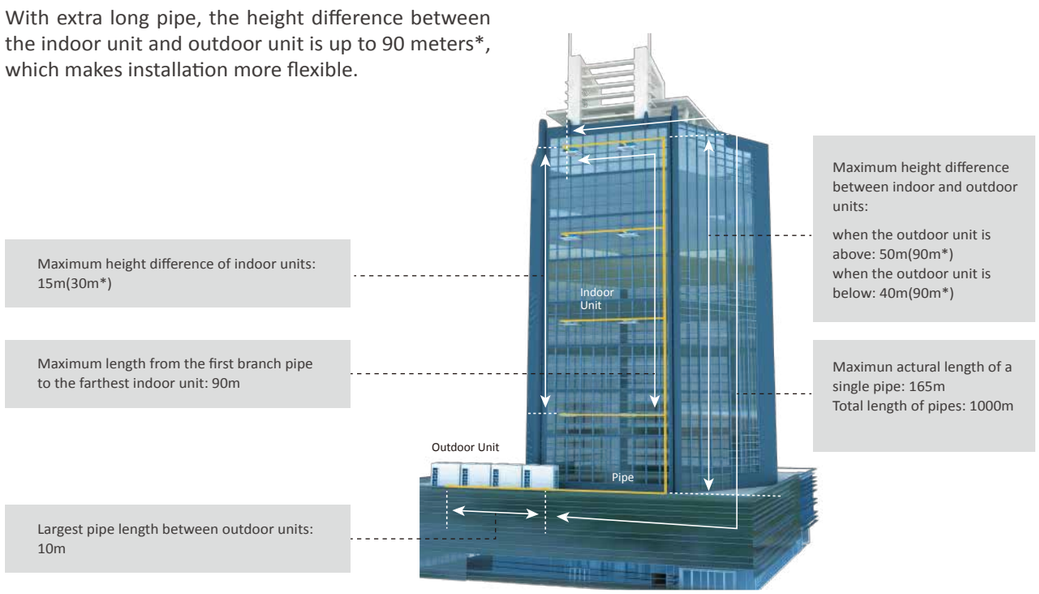

## External Static Pressure

External static pressure is reachable up to 110Pa, allowing better air discharge when are installed indoors with ducting or even outdoors in poor air ventilation spaces.




## Piping Length

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

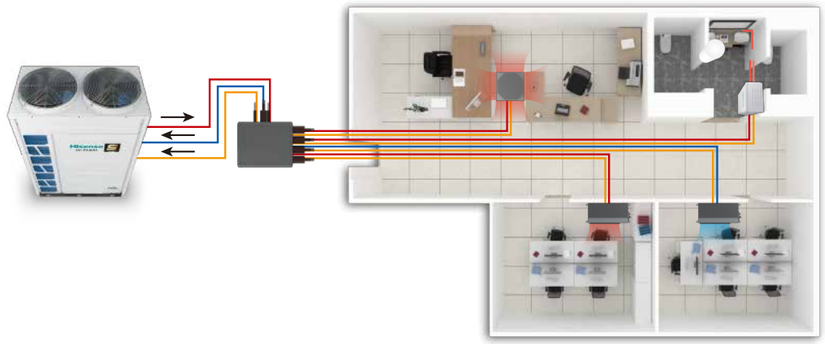



*Note: For detailed information, please contact Hisense's technical staff.

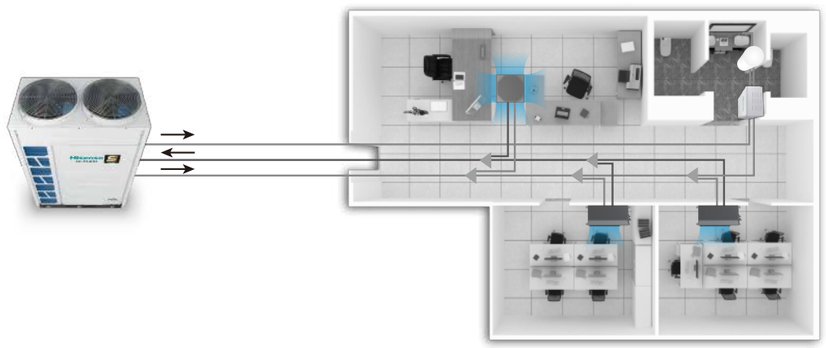
# New Upgraded Switch Box

Switch box defies the complicated piping of 3pipe heat recovery systems and simplifies the system with lesser connections and piping including refrigerant and condensate piping. Now with larger capacity up to 85kW for larger systems and increased up to 16 branch ports for more indoor units connections.

### Heating Domination Mode

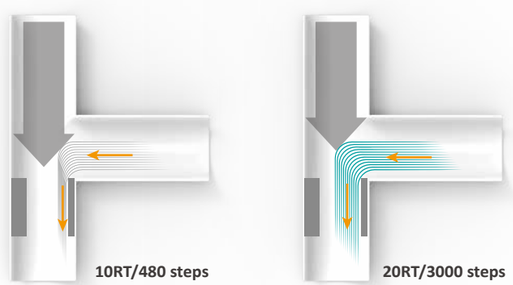


### 3 Pipes Without Switch Box



# Dual 20RT EEV

Electronic expansion valve(EEV) is upgraded using the dual 20RT with 6 times more adjustment steps for larger refrigerant flow rate and control precision.




## Hi-FLEXi S Heat Recovery

| HP | | | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP |
|---|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-76FKFSA | AVWT-96FKFSA | AVWT-114FKFSA | AVWT-136FKFSA | AVWT-154FKFSA | AVWT-170FKFSA |
| | Modules | | —— | —— | —— | —— | —— | —— |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | | |
| Cooling | 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 Input | kW | 4.87 | 6.75 | 8.09 | 10.26 | 12.16 | 14.04 |
| | EER | kW/kW | 4.60 | 4.15 | 4.14 | 3.90 | 3.70 | 3.56 |
| Heating | 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 Input(Max/Nom) | kW | 5.20 / 4.36 | 6.77 / 5.63 | 9.17 / 7.70 | 10.82 / 8.89 | 12.14 / 10.32 | 14.74 / 12.02 |
| | COP(Max) | kW/kW | 4.81 | 4.65 | 4.09 | 4.16 | 4.12 | 3.80 |
| Ventilation | Air Flow Rate | $m^3$/min | 183 | 183 | 183 | 200 | 200 | 200 |
| | Fan Quantity | | 1 | 1 | 1 | 2 | 2 | 2 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 59 | 60 | 62 | 62 | 62 | 62 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | | | |
| | Compressor Quantity | PC | 1 | 1 | 1 | 1 | 1 | 2 |
| Refrigerant | Type | - | R410A | | | | | |
| | Pre-charged Quantity | kg | 5.60 | 5.90 | 6.00 | 8.80 | 8.80 | 9.20 |
| Weight | Net Weight | kg | 226 | 227 | 246 | 289 | 290 | 349 |
| | Gross Weight | kg | 246 | 247 | 266 | 311 | 312 | 371 |
| Dimensions | External (HxWxD) | mm | 1730x950x750 | 1730x950x750 | 1730x950x750 | 1730x1210x750 | 1730x1210x750 | 1730x1210x750 |
| | Packing(HxWxD) | mm | 1930x1015x790 | 1930x1015x790 | 1930x1015x790 | 1930x1275x790 | 1930x1275x790 | 1930x1275x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| 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) |
| Connectable Indoor Units | Quantity | PC | 13 | 16 | 19 | 23 | 26 | 29 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery


| HP | | | 20HP | 22HP | 24HP | 26HP | 28HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-190FKFSA | AVWT-212FKFSA | AVWT-232FKFSA | AVWT-250FKFSA | AVWT-272FKFSA |
| | Modules | | —— | —— | —— | —— | —— |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 56.0 | 61.5 | 68.0 | 72.5 | 80.0 |
| | | kBtu/h | 191.1 | 209.8 | 232.0 | 247.4 | 273.0 |
| | Power Input | kW | 15.60 | 18.04 | 20.61 | 21.90 | 24.24 |
| | EER | kW/kW | 3.59 | 3.41 | 3.30 | 3.31 | 3.30 |
| Heating | Capacity(Max/Nom) | kW | 63.0 / 56.0 | 69.0 / 61.5 | 75.0 / 68.0 | 80.0 / 72.5 | 90.0 / 80.0 |
| | | kBtu/h | 215.0 / 191.1 | 235.4 / 209.8 | 255.9 / 232.0 | 273.0 / 247.4 | 307.1 / 273.0 |
| | Power Input(Max/Nom) | kW | 16.54 / 13.56 | 18.80 / 15.89 | 21.43 / 18.38 | 22.35 / 19.23 | 26.01 / 21.92 |
| | COP(Max) | kW/kW | 3.81 | 3.67 | 3.50 | 3.58 | 3.46 |
| Ventilation | Air Flow Rate | $m^3$/min | 267 | 296 | 296 | 350 | 350 |
| | Fan Quantity | | 2 | 2 | 2 | 2 | 2 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 63 | 64 | 66 | 67 | 67 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | | |
| | Compressor Quantity | PC | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 9.80 | 10.60 | 10.60 | 11.50 | 11.50 |
| Weight | Net Weight | kg | 369 | 377 | 378 | 400 | 401 |
| | Gross Weight | kg | 393 | 401 | 402 | 426 | 427 |
| Dimensions | External (HxWxD) | mm | 1730x1350x750 | 1730x1350x750 | 1730x1350x750 | 1730x1600x750 | 1730x1600x750 |
| | Packing(HxWxD) | mm | 1930x1420x790 | 1930x1420x790 | 1930x1420x790 | 1930x1665x790 | 1930x1665x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| 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) |
| Connectable Indoor Units | Quantity | PC | 33 | 36 | 40 | 43 | 47 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery


| HP | | | 30HP | 32HP | 34HP | 36HP | 38HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-290FKFSA | AVWT-308FKFSA | AVWT-324FKFSA | AVWT-344FKFSA | AVWT-360FKFSA |
| | Modules | | AVWT-136FKFSA<br>AVWT-154FKFSA | AVWT-154FKFSA<br>AVWT-154FKFSA | AVWT-154FKFSA<br>AVWT-170FKFSA | AVWT-154FKFSA<br>AVWT-190FKFSA | AVWT-170FKFSA<br>AVWT-190FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 85.0 | 90.0 | 95.0 | 101.0 | 106.0 |
| | | kBtu/h | 290.0 | 307.1 | 324.1 | 344.6 | 361.7 |
| | Power Input | kW | 22.41 | 24.32 | 26.20 | 27.75 | 29.64 |
| | EER | kW/kW | 3.79 | 3.70 | 3.63 | 3.64 | 3.58 |
| Heating | Capacity(Max/Nom) | kW | 95.0 / 85.0 | 100.0 / 90.0 | 106.0 / 95.0 | 113.0 / 101.0 | 119.0 / 106.0 |
| | | kBtu/h | 324.1 / 290.0 | 341.2 / 307.1 | 361.7 / 324.1 | 385.6 / 344.6 | 406.0 / 361.7 |
| | Power Input(Max/Nom) | kW | 22.95 / 19.21 | 24.27 / 20.64 | 26.82 / 22.33 | 28.62 / 23.86 | 31.27 / 25.58 |
| | COP(Max) | kW/kW | 4.14 | 4.12 | 3.95 | 3.95 | 3.81 |
| Ventilation | Air Flow Rate | $m^3$/min | 400 | 400 | 400 | 467 | 467 |
| | Fan Quantity | | 4 | 4 | 4 | 4 | 4 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 67 | 67 | 67 | 67 | 67 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | | |
| | Compressor Quantity | PC | 2 | 2 | 3 | 3 | 4 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 8.80+8.80 | 8.80+8.80 | 8.80+9.20 | 8.80+9.80 | 9.20+9.80 |
| Weight | Net Weight | kg | 289+290 | 290+290 | 290+349 | 290+369 | 349+369 |
| | Gross Weight | kg | 311+312 | 312+312 | 312+371 | 312+393 | 371+393 |
| Dimensions | External (HxWxD) | mm | 1730x (1210+1210) x750 | 1730x (1210+1210) x750 | 1730x (1210+1210) x750 | 1730x (1210+1350) x750 | 1730x (1210+1350) x750 |
| | Packing(HxWxD) | mm | 1930x (1275+1275) x790 | 1930x (1275+1275) x790 | 1930x (1275+1275) x790 | 1930x (1275+1420) x790 | 1930x (1275+1420) x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| 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) |
| Connectable Indoor Units | Quantity | PC | 50 | 53 | 56 | 59 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery


| HP | | | 40HP | 42HP | 44HP | 46HP | 48HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-380FKFSA | AVWT-402FKFSA | AVWT-422FKFSA | AVWT-444FKFSA | AVWT-464FKFSA |
| | Modules | | AVWT-190FKFSA<br>AVWT-190FKFSA | AVWT-170FKFSA<br>AVWT-232FKFSA | AVWT-190FKFSA<br>AVWT-232FKFSA | AVWT-212FKFSA<br>AVWT-232FKFSA | AVWT-232FKFSA<br>AVWT-232FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 112.0 | 118.0 | 124.0 | 129.5 | 136.0 |
| | | kBtu/h | 382.1 | 402.6 | 423.1 | 441.9 | 464.0 |
| | Power Input | kW | 31.20 | 34.60 | 36.15 | 38.63 | 41.21 |
| | EER | kW/kW | 3.59 | 3.41 | 3.43 | 3.35 | 3.30 |
| Heating | Capacity(Max/Nom) | kW | 126.0 / 112.0 | 131.0 / 118.0 | 138.0 / 124.0 | 144.0 / 129.5 | 150.0 / 136.0 |
| | | kBtu/h | 429.9 / 382.1 | 447.0 / 402.6 | 470.9 / 423.1 | 491.3 / 441.9 | 511.8 / 464.0 |
| | Power Input(Max/Nom) | kW | 33.07 / 27.12 | 36.12 / 30.30 | 37.92 / 31.85 | 40.21 / 34.25 | 42.86 / 36.76 |
| | COP(Max) | kW/kW | 3.81 | 3.63 | 3.64 | 3.58 | 3.50 |
| Ventilation | Air Flow Rate | $m^3$/min | 534 | 496 | 563 | 592 | 592 |
| | Fan Quantity | | 4 | 4 | 4 | 4 | 4 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 67 | 67 | 68 | 68 | 69 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | | |
| | Compressor Quantity | PC | 4 | 4 | 4 | 4 | 4 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 9.80+9.80 | 9.20+10.60 | 9.80+10.60 | 10.60+10.60 | 10.60+10.60 |
| Weight | Net Weight | kg | 369+369 | 349+378 | 369+378 | 377+378 | 378+378 |
| | Gross Weight | kg | 393+393 | 371+402 | 393+402 | 401+402 | 402+402 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1350+1350)<br>x750 | 1730x<br>(1210+1350)<br>x750 | 1730x<br>(1350+1350)<br>x750 | 1730x<br>(1350+1350)<br>x750 | 1730x<br>(1350+1350)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1420+1420)<br>x790 | 1930x<br>(1275+1420)<br>x790 | 1930x<br>(1420+1420)<br>x790 | 1930x<br>(1420+1420)<br>x790 | 1930x<br>(1420+1420)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| 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) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery


| HP | | | 50HP | 52HP | 54HP | 56HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-482FKFSA | AVWT-504FKFSA | AVWT-522FKFSA | AVWT-544FKFSA |
| | Modules | | AVWT-232FKFSA<br>AVWT-250FKFSA | AVWT-232FKFSA<br>AVWT-272FKFSA | AVWT-250FKFSA<br>AVWT-272FKFSA | AVWT-272FKFSA<br>AVWT-272FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 140.5 | 148.0 | 152.5 | 160.0 |
| | | kBtu/h | 479.4 | 505.0 | 520.3 | 545.9 |
| | Power Input | kW | 42.51 | 44.85 | 46.15 | 48.48 |
| | EER | kW/kW | 3.31 | 3.30 | 3.30 | 3.30 |
| Heating | Capacity(Max/Nom) | kW | 155.0 / 140.5 | 165.0 / 148.0 | 170.0 / 152.5 | 180.0 / 160.0 |
| | | kBtu/h | 528.9 / 479.4 | 563.0 / 505.0 | 580.0 / 520.3 | 614.2 / 545.9 |
| | Power Input(Max/Nom) | kW | 43.77 / 37.60 | 47.44 / 40.29 | 48.33 / 41.13 | 52.02 / 43.84 |
| | COP(Max) | kW/kW | 3.54 | 3.48 | 3.52 | 3.46 |
| Ventilation | Air Flow Rate | $m^3$/min | 646 | 646 | 700 | 700 |
| | Fan Quantity | | 4 | 4 | 4 | 4 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 70 | 70 | 70 | 70 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 4 | 4 | 4 | 4 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 10.60+11.50 | 10.60+11.50 | 11.50+11.50 | 11.50+11.50 |
| Weight | Net Weight | kg | 378+400 | 378+401 | 400+401 | 401+401 |
| | Gross Weight | kg | 402+426 | 402+427 | 426+427 | 427+427 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1350+1600)<br>x750 | 1730x<br>(1350+1600)<br>x750 | 1730x<br>(1600+1600)<br>x750 | 1730x<br>(1600+1600)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1420+1665)<br>x790 | 1930x<br>(1420+1665)<br>x790 | 1930x<br>(1665+1665)<br>x790 | 1930x<br>(1665+1665)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| 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) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery

| HP | | | 58HP | 60HP | 62HP | 64HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-552FKFSA | AVWT-570FKFSA | AVWT-592FKFSA | AVWT-612FKFSA |
| | Modules | | AVWT-170FKFSA<br>AVWT-170FKFSA<br>AVWT-212FKFSA | AVWT-190FKFSA<br>AVWT-190FKFSA<br>AVWT-190FKFSA | AVWT-170FKFSA<br>AVWT-190FKFSA<br>AVWT-232FKFSA | AVWT-190FKFSA<br>AVWT-190FKFSA<br>AVWT-232FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 161.5 | 168.0 | 174.0 | 180.0 |
| | | kBtu/h | 551.0 | 573.2 | 593.7 | 614.2 |
| | Power Input | kW | 46.11 | 46.80 | 50.18 | 51.72 |
| | EER | kW/kW | 3.50 | 3.59 | 3.47 | 3.48 |
| Heating | Capacity(Max/Nom) | kW | 181.0 / 161.5 | 189.0 / 168.0 | 194.0 / 174.0 | 201.0 / 180.0 |
| | | kBtu/h | 617.6 / 551.0 | 644.9 / 573.2 | 661.9 / 593.7 | 685.8 / 614.2 |
| | Power Input(Max/Nom) | kW | 48.27 / 39.89 | 49.61 / 40.68 | 52.64 / 43.83 | 54.43 / 45.37 |
| | COP(Max) | kW/kW | 3.75 | 3.81 | 3.69 | 3.69 |
| Ventilation | Air Flow Rate | $m^3$/min | 696 | 801 | 763 | 830 |
| | Fan Quantity | | 6 | 6 | 6 | 6 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 70 | 70 | 70 | 70 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 6 | 6 | 6 | 6 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 9.20+9.20+10.60 | 9.80+9.80+9.80 | 9.20+9.80+10.60 | 9.80+9.80+10.60 |
| Weight | Net Weight | kg | 349+349+377 | 369+369+369 | 349+369+378 | 369+369+378 |
| | Gross Weight | kg | 371+371+401 | 393+393+393 | 371+393+402 | 393+393+402 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1210+1210+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 | 1730x<br>(1210+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1275+1275+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 | 1930x<br>(1275+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| 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) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery

| HP | | | 66HP | 68HP | 70HP | 72HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-634FKFSA | AVWT-654FKFSA | AVWT-676FKFSA | AVWT-696FKFSA |
| | Modules | | AVWT-190FKFSA<br>AVWT-212FKFSA<br>AVWT-232FKFSA | AVWT-190FKFSA<br>AVWT-232FKFSA<br>AVWT-232FKFSA | AVWT-212FKFSA<br>AVWT-232FKFSA<br>AVWT-232FKFSA | AVWT-232FKFSA<br>AVWT-232FKFSA<br>AVWT-232FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 185.5 | 192.0 | 197.5 | 204.0 |
| | | kBtu/h | 632.9 | 655.1 | 673.9 | 696.0 |
| | Power Input | kW | 54.18 | 56.73 | 59.23 | 61.82 |
| | EER | kW/kW | 3.42 | 3.38 | 3.33 | 3.30 |
| Heating | Capacity(Max/Nom) | kW | 207.0 / 185.5 | 213.0 / 192.0 | 219.0 / 197.5 | 225.0 / 204.0 |
| | | kBtu/h | 706.3 / 632.9 | 726.8 / 655.1 | 747.2 / 673.9 | 767.7 / 696.0 |
| | Power Input(Max/Nom) | kW | 56.72 / 47.74 | 59.33 / 50.20 | 61.63 / 52.62 | 64.29 / 55.14 |
| | COP(Max) | kW/kW | 3.65 | 3.59 | 3.55 | 3.50 |
| Ventilation | Air Flow Rate | $m^3$/min | 859 | 859 | 888 | 888 |
| | Fan Quantity | | 6 | 6 | 6 | 6 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 70 | 70 | 70 | 71 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 6 | 6 | 6 | 6 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 9.80+10.60+10.60 | 9.80+10.60+10.60 | 10.60+10.60+10.60 | 10.60+10.60+10.60 |
| Weight | Net Weight | kg | 369+377+378 | 369+378+378 | 377+378+378 | 378+378+378 |
| | Gross Weight | kg | 393+401+402 | 393+402+402 | 401+402+402 | 402+402+402 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1350+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1420+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Heat Recovery Operation System | Low Pressure Gas Line | mm(in.) | Φ44.5(1-3/4) | Φ50.8(2) | 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) | Φ44.5(1-3/4) |
| | Liquid Line | mm(in.) | Φ22.2(7/8) | Φ25.4(1) | 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) | Φ50.8(2) |
| | Liquid Line | mm(in.) | Φ22.2(7/8) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery

| HP | | | 74HP | 76HP | 78HP | 80HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-714FKFSA | AVWT-732FKFSA | AVWT-754FKFSA | AVWT-776FKFSA |
| | Modules | | AVWT-232FKFSA<br>AVWT-232FKFSA<br>AVWT-250FKFSA | AVWT-232FKFSA<br>AVWT-250FKFSA<br>AVWT-250FKFSA | AVWT-232FKFSA<br>AVWT-250FKFSA<br>AVWT-272FKFSA | AVWT-232FKFSA<br>AVWT-272FKFSA<br>AVWT-272FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 208.5 | 213.0 | 220.5 | 228.0 |
| | | kBtu/h | 711.4 | 726.8 | 752.3 | 777.9 |
| | Power Input | kW | 63.11 | 64.41 | 66.75 | 69.09 |
| | EER | kW/kW | 3.30 | 3.31 | 3.30 | 3.30 |
| Heating | Capacity(Max/Nom) | kW | 230.0 / 208.5 | 235.0 / 213.0 | 245.0 / 220.5 | 255.0 / 228.0 |
| | | kBtu/h | 784.8 / 711.4 | 801.8 / 726.8 | 835.9 / 752.3 | 870.1 / 777.9 |
| | Power Input(Max/Nom) | kW | 65.19 / 55.98 | 66.11 / 56.83 | 69.76 / 59.51 | 73.45 / 62.21 |
| | COP(Max) | kW/kW | 3.53 | 3.55 | 3.51 | 3.47 |
| Ventilation | Air Flow Rate | $m^3$/min | 942 | 996 | 996 | 996 |
| | Fan Quantity | | 6 | 6 | 6 | 6 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 71 | 71 | 71 | 71 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 6 | 6 | 6 | 6 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 10.60+10.60+11.50 | 10.60+11.50+11.50 | 10.60+11.50+11.50 | 10.60+11.50+11.50 |
| Weight | Net Weight | kg | 378+378+400 | 378+400+400 | 378+400+401 | 378+401+401 |
| | Gross Weight | kg | 402+402+426 | 402+426+426 | 402+426+427 | 402+427+427 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1350+1350+1600)<br>x750 | 1730x<br>(1350+1600+1600)<br>x750 | 1730x<br>(1350+1600+1600)<br>x750 | 1730x<br>(1350+1600+1600)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1420+1420+1665)<br>x790 | 1930x<br>(1420+1665+1665)<br>x790 | 1930x<br>(1420+1665+1665)<br>x790 | 1930x<br>(1420+1665+1665)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Heat Recovery Operation System | Low Pressure Gas Line | mm(in.) | Φ50.8(2) | 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) | Φ44.5(1-3/4) |
| | Liquid Line | mm(in.) | Φ25.4(1) | 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) | Φ50.8(2) |
| | Liquid Line | mm(in.) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery

| HP | | | 82HP | 84HP | 86HP | 88HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-794FKFSA | AVWT-816FKFSA | AVWT-824FKFSA | AVWT-844FKFSA |
| | Modules | | AVWT-250FKFSA<br>AVWT-272FKFSA<br>AVWT-272FKFSA | AVWT-272FKFSA<br>AVWT-272FKFSA<br>AVWT-272FKFSA | AVWT-190FKFSA<br>AVWT-190FKFSA<br>AVWT-212FKFSA<br>AVWT-232FKFSA | AVWT-190FKFSA<br>AVWT-190FKFSA<br>AVWT-232FKFSA<br>AVWT-232FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 232.5 | 240.0 | 241.5 | 248.0 |
| | | kBtu/h | 793.3 | 818.9 | 824.0 | 846.2 |
| | Power Input | kW | 70.39 | 72.73 | 69.76 | 72.29 |
| | EER | kW/kW | 3.30 | 3.30 | 3.46 | 3.43 |
| Heating | Capacity(Max/Nom) | kW | 260.0 / 232.5 | 270.0 / 240.0 | 270.0 / 241.5 | 276.0 / 248.0 |
| | | kBtu/h | 887.1 / 793.3 | 921.2 / 818.9 | 921.2 / 824.0 | 941.7 / 846.2 |
| | Power Input(Max/Nom) | kW | 74.33 / 63.05 | 78.03 / 65.75 | 73.24 / 61.26 | 75.83 / 63.69 |
| | COP(Max) | kW/kW | 3.50 | 3.46 | 3.69 | 3.64 |
| Ventilation | Air Flow Rate | $m^3$/min | 1050 | 1050 | 1126 | 1126 |
| | Fan Quantity | | 6 | 6 | 8 | 8 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 72 | 72 | 72 | 72 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 6 | 6 | 8 | 8 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 11.50+11.50+11.50 | 11.50+11.50+11.50 | 9.80+9.80+10.60+10.60 | 9.80+9.80+10.60+10.60 |
| Weight | Net Weight | kg | 400+401+401 | 401+401+401 | 369+369+377+378 | 369+369+378+378 |
| | Gross Weight | kg | 426+427+427 | 427+427+427 | 393+393+401+402 | 393+393+402+402 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1600+1600+1600)<br>x750 | 1730x<br>(1600+1600+1600)<br>x750 | 1730x<br>(1350+1350+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350+1350)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1665+1665+1665)<br>x790 | 1930x<br>(1665+1665+1665)<br>x790 | 1930x<br>(1420+1420+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420+1420)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Heat Recovery Operation System | Low Pressure Gas Line | mm(in.) | Φ50.8(2) | 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) | Φ44.5(1-3/4) |
| | Liquid Line | mm(in.) | Φ25.4(1) | 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) | Φ50.8(2) |
| | Liquid Line | mm(in.) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery

| HP | | | 90HP | 92HP | 94HP | 96HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-866FKFSA | AVWT-886FKFSA | AVWT-908FKFSA | AVWT-928FKFSA |
| | Modules | | AVWT-190FKFSA | AVWT-190FKFSA | AVWT-212FKFSA | AVWT-232FKFSA |
| | | | AVWT-212FKFSA | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-232FKFSA |
| | | | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-232FKFSA |
| | | | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-232FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 253.5 | 260.0 | 265.5 | 272.0 |
| | | kBtu/h | 864.9 | 887.1 | 905.9 | 928.1 |
| | Power Input | kW | 74.77 | 77.33 | 79.83 | 82.42 |
| | EER | kW/kW | 3.39 | 3.36 | 3.33 | 3.30 |
| Heating | Capacity(Max/Nom) | kW | 282.0 / 253.5 | 288.0 / 260.0 | 294.0 / 265.5 | 300.0 / 272.0 |
| | | kBtu/h | 962.2 / 864.9 | 982.7 / 887.1 | 1003.1 / 905.9 | 1023.6 / 928.1 |
| | Power Input(Max/Nom) | kW | 78.12 / 66.09 | 80.75 / 68.56 | 83.06 / 71.00 | 85.71 / 73.51 |
| | COP(Max) | kW/kW | 3.61 | 3.57 | 3.54 | 3.50 |
| Ventilation | Air Flow Rate | $m^3$/min | 1155 | 1155 | 1184 | 1184 |
| | Fan Quantity | | 8 | 8 | 8 | 8 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 72 | 72 | 72 | 72 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 8 | 8 | 8 | 8 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 9.80+10.60+10.60+10.60 | 9.80+10.60+10.60+10.60 | 10.60+10.60+10.60+10.60 | 10.60+10.60+10.60+10.60 |
| Weight | Net Weight | kg | 369+377+378+378 | 369+378+378+378 | 377+378+378+378 | 378+378+378+378 |
| | Gross Weight | kg | 393+401+402+402 | 393+402+402+402 | 401+402+402+402 | 402+402+402+402 |
| Dimensions | External (HxWxD) | mm | 1730x (1350+1350+1350+1350) x750 | 1730x (1350+1350+1350+1350) x750 | 1730x (1350+1350+1350+1350) x750 | 1730x (1350+1350+1350+1350) x750 |
| | Packing(HxWxD) | mm | 1930x (1420+1420+1420+1420) x790 | 1930x (1420+1420+1420+1420) x790 | 1930x (1420+1420+1420+1420) x790 | 1930x (1420+1420+1420+1420) x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Heat Recovery Operation System | Low Pressure Gas Line | mm(in.) | Φ50.8(2) | 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) | Φ44.5(1-3/4) |
| | Liquid Line | mm(in.) | Φ25.4(1) | 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) | Φ50.8(2) |
| | Liquid Line | mm(in.) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery

| HP | | | 98HP | 100HP | 102HP | 104HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-946FKFSA | AVWT-968FKFSA | AVWT-988FKFSA | AVWT-1008FKFSA |
| | Modules | | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-212FKFSA | AVWT-232FKFSA |
| | | | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-232FKFSA |
| | | | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-272FKFSA | AVWT-272FKFSA |
| | | | AVWT-250FKFSA | AVWT-272FKFSA | AVWT-272FKFSA | AVWT-272FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 276.5 | 284.0 | 289.5 | 296.0 |
| | | kBtu/h | 943.4 | 969.0 | 987.8 | 1010.0 |
| | Power Input | kW | 83.72 | 86.06 | 87.10 | 89.70 |
| | EER | kW/kW | 3.30 | 3.30 | 3.32 | 3.30 |
| Heating | Capacity(Max/Nom) | kW | 305.0 / 276.5 | 315.0 / 284.0 | 324.0 / 289.5 | 330.0 / 296.0 |
| | | kBtu/h | 1040.7 / 943.4 | 1074.8 / 969.0 | 1105.5 / 987.8 | 1126.0 / 1010.0 |
| | Power Input(Max/Nom) | kW | 86.62 / 74.36 | 90.29 / 77.05 | 92.19 / 78.05 | 94.87 / 80.59 |
| | COP(Max) | kW/kW | 3.52 | 3.49 | 3.51 | 3.48 |
| Ventilation | Air Flow Rate | $m^3$/min | 1238 | 1238 | 1292 | 1292 |
| | Fan Quantity | | 8 | 8 | 8 | 8 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 72 | 72 | 72 | 73 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 8 | 8 | 8 | 8 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 10.60+10.60+10.60+11.50 | 10.60+10.60+10.60+11.50 | 10.60+10.60+11.50+11.50 | 10.60+10.60+11.50+11.50 |
| Weight | Net Weight | kg | 378+378+378+400 | 378+378+378+401 | 377+378+401+401 | 378+378+401+401 |
| | Gross Weight | kg | 402+402+402+426 | 402+402+402+427 | 401+402+427+427 | 402+402+427+427 |
| Dimensions | External (HxWxD) | mm | 1730x (1350+1350+1350+1600) x750 | 1730x (1350+1350+1350+1600) x750 | 1730x (1350+1350+1600+1600) x750 | 1730x (1350+1350+1600+1600) x750 |
| | Packing(HxWxD) | mm | 1930x (1420+1420+1420+1665) x790 | 1930x (1420+1420+1420+1665) x790 | 1930x (1420+1420+1665+1665) x790 | 1930x (1420+1420+1665+1665) x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Heat Recovery Operation System | Low Pressure Gas Line | mm(in.) | Φ50.8(2) | 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) | Φ44.5(1-3/4) |
| | Liquid Line | mm(in.) | Φ25.4(1) | 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) | Φ50.8(2) |
| | Liquid Line | mm(in.) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Heat Recovery

| HP | | | 106HP | 108HP | 110HP | 112HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-1026FKFSA | AVWT-1048FKFSA | AVWT-1066FKFSA | AVWT-1088FKFSA |
| | Modules | | AVWT-232FKFSA | AVWT-232FKFSA | AVWT-250FKFSA | AVWT-272FKFSA |
| | | | AVWT-250FKFSA | AVWT-272FKFSA | AVWT-272FKFSA | AVWT-272FKFSA |
| | | | AVWT-272FKFSA | AVWT-272FKFSA | AVWT-272FKFSA | AVWT-272FKFSA |
| | | | AVWT-272FKFSA | AVWT-272FKFSA | AVWT-272FKFSA | AVWT-272FKFSA |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 300.5 | 308.0 | 312.5 | 320.0 |
| | | kBtu/h | 1025.3 | 1050.9 | 1066.3 | 1091.8 |
| | Power Input | kW | 90.99 | 93.33 | 94.63 | 96.97 |
| | EER | kW/kW | 3.30 | 3.30 | 3.30 | 3.30 |
| Heating | Capacity(Max/Nom) | kW | 335.0 / 300.5 | 345.0 / 308.0 | 350.0 / 312.5 | 360.0 / 320.0 |
| | | kBtu/h | 1143.0 / 1025.3 | 1177.1 / 1050.9 | 1194.2 / 1066.3 | 1228.3 / 1091.8 |
| | Power Input(Max/Nom) | kW | 95.76 / 81.42 | 99.46 / 84.13 | 100.34 / 84.96 | 104.05 / 87.67 |
| | COP(Max) | kW/kW | 3.50 | 3.47 | 3.49 | 3.46 |
| Ventilation | Air Flow Rate | $m^3$/min | 1346 | 1346 | 1400 | 1400 |
| | Fan Quantity | | 8 | 8 | 8 | 8 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 73 | 73 | 73 | 73 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 8 | 8 | 8 | 8 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 10.60+11.50+11.50+11.50 | 10.60+11.50+11.50+11.50 | 11.50+11.50+11.50+11.50 | 11.50+11.50+11.50+11.50 |
| Weight | Net Weight | kg | 378+400+401+401 | 378+401+401+401 | 400+401+401+401 | 401+401+401+401 |
| | Gross Weight | kg | 402+426+427+427 | 402+427+427+427 | 426+427+427+427 | 427+427+427+427 |
| Dimensions | External (HxWxD) | mm | 1730x (1350+1600+1600+1600) x750 | 1730x (1350+1600+1600+1600) x750 | 1730x (1600+1600+1600+1600) x750 | 1730x (1600+1600+1600+1600) x750 |
| | Packing(HxWxD) | mm | 1930x (1420+1665+1665+1665) x790 | 1930x (1420+1665+1665+1665) x790 | 1930x (1665+1665+1665+1665) x790 | 1930x (1665+1665+1665+1665) x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Heat Recovery Operation System | Low Pressure Gas Line | mm(in.) | Φ50.8(2) | 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) | Φ44.5(1-3/4) |
| | Liquid Line | mm(in.) | Φ25.4(1) | 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) | Φ50.8(2) |
| | Liquid Line | mm(in.) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) | Φ25.4(1) |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 200%*1 | 200%*1 | 200%*1 | 200%*1 |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50(90*2) | 50(90*2) | 50(90*2) | 50(90*2) |
| | | m(below) | 40(90*2) | 40(90*2) | 40(90*2) | 40(90*2) |
| | Height Difference Between IDUs | m | 15(30*2) | 15(30*2) | 15(30*2) | 15(30*2) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -10°C~52°C | -10°C~52°C | -10°C~52°C | -10°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°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 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.

*1:If you have any questions,please contact with the technical engineer.

*2:For detailed information, please contact Hisense's technical staff.

# New Switch Box

Original Products

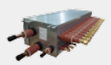
New Switch Box

## 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.
- Combine between single branch and multi-branch flexibility.
- Enable fewer connections, hooks and service parts for easy installation.

| Model | | | | Single Branch | | Multi Branch | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | HCHS-N06XA | HCHS-N10XA | HCHM-N04XA | HCHM-N08XA | HCHM-N12XA | HCHM-N16XA |
| Appearance | | | |  |  |  |  |  |  |
| Electrical | Power Supply | | - | AC 1Φ,220-240V/50/60Hz | | | | | |
| | Power Input | | W | 5 | 5 | 11.2 | 22.4 | 33.6 | 44.8 |
| 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 | - | - | 16 | 16 | 16 | 16 |
| 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 | | | | | |
| Refrigerant 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 | 6.3 | 6.4 | 14.1 | 25.2 | 35.5 | 46.7 |
| Noise Level | Sound Pressure Level | | dB (A) | 33 | 33 | 31 | 31 | 34 | 34 |
| | Max Sound | | dB (A) | 46 | 46 | 43 | 46 | 48 | 49 |

# Hydro Box

## Specification for Hydro Box

| Water Module Model | | | AHM-080FJFAA | AHM-160FJFAA |
|---|---|---|---|---|
| Power Supply | | | AC 1Φ, 220~ 240V/50Hz<br>AC 1Φ, 220V/60Hz | |
| Cooling Capacity (A 35/24°C /W 12-7°C ) | | | 7.5 | 13.5 |
| Heating Capacity (A 7/6°C /W 30-35°C ) | | kW | 8 | 16 |
| Power Input | | kW | 0.285(3.285) | 0.285(3.285) |
| 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 | |
| | Speed | | Inverter Control | |
| | Pumping Head | m | 12.5 | 12.5 |
| | Pumping Head for Water Circuit | | 5 | 5 |
| | Power Input | w | 100 | 160 |
| Booster Heating | | kW | 3 | 3 |
| Water Filter | Diameter Perforations | mm | 0.85 | 0.85 |
| | Meterial | | 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 | | $m^3/h$ | 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 |

### Indoor Unit Heating

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

### Hydro Box Cooling

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

### Hydro Box Heating (Floor Heating)

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

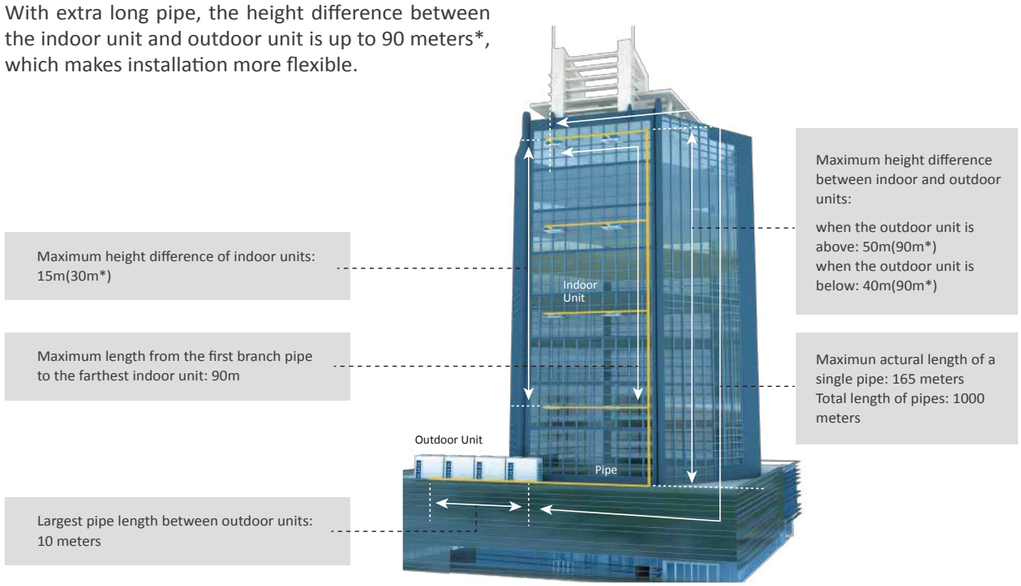
### Hydro Box Heating (DHW)

| | Maximum | Minimum |
|---|---|---|
| Inlet Water | 54°C | 10°C |
| Outdoor | 43°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


## Piping Length

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




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

## Hi-FLEXi S Series


| HP | | | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP |
|---|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-76HKSS | AVWT-96HKSS | AVWT-114HKSS | AVWT-136HKSS | AVWT-154HKSS | AVWT-170HKSS |
| | Modules | | —— | —— | —— | —— | —— | —— |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | | |
| Cooling | 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 Input | kW | 5.21 | 7.00 | 8.65 | 10.53 | 12.50 | 15.63 |
| | EER | kW/kW | 4.30 | 4.00 | 3.87 | 3.80 | 3.60 | 3.20 |
| Heating | Capacity | kW | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.0 |
| | | kBtu/h | 85.3 | 107.5 | 128.0 | 153.5 | 170.6 | 191.1 |
| | Power Input | kW | 5.77 | 7.59 | 9.21 | 11.72 | 13.70 | 16.97 |
| | COP | kW/kW | 4.33 | 4.15 | 4.07 | 3.84 | 3.65 | 3.30 |
| Ventilation | Air Flow Rate | $m^3$/min | 183 | 183 | 183 | 200 | 200 | 200 |
| | Fan Quantity | | 1 | 1 | 1 | 2 | 2 | 2 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 59 | 60 | 62 | 62 | 62 | 62 |
| Compressor | Type | - | Enhanced Vapor Injection Compressor | | | | | |
| | Compressor Quantity | PC | 1 | 1 | 1 | 1 | 1 | 2 |
| Refrigerant | Type | - | R410A | | | | | |
| | Pre-charged Quantity | kg | 7.4 | 8.6 | 9.5 | 12.0 | 12.0 | 13.2 |
| Weight | Net Weight | kg | 224 | 244 | 245 | 297 | 298 | 347 |
| | Gross Weight | kg | 243 | 263 | 265 | 321 | 322 | 371 |
| Dimensions | External (HxWxD) | mm | 1730x950x750 | 1730x950x750 | 1730x950x750 | 1730x1210x750 | 1730x1210x750 | 1730x1210x750 |
| | Packing(HxWxD) | mm | 1930x1015x790 | 1930x1015x790 | 1930x1015x790 | 1930x1275x790 | 1930x1275x790 | 1930x1275x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ19.05 | Φ22.20 | Φ25.40 | Φ25.40 | Φ28.60 | Φ28.60 |
| | | inch | 3/4 | 7/8 | 1 | 1 | 1-1/8 | 1-1/8 |
| | Liquid | mm | Φ9.53 | Φ9.53 | Φ12.70 | Φ12.70 | Φ12.70 | Φ15.88 |
| | | inch | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 | 5/8 |
| Connectable Indoor Units | Quantity | PC | 13 | 16 | 19 | 23 | 26 | 29 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) |
| | | m(below) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) |
| | Height Difference Between IDUs | m | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series


| HP | | | 20HP | 22HP | 24HP | 26HP | 28HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-190HKSS | AVWT-212HKSS | AVWT-232HKSS | AVWT-250HKSS | AVWT-272HKSS |
| | Modules | | —— | —— | —— | —— | —— |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 56.0 | 61.5 | 68.0 | 72.5 | 80.0 |
| | | kBtu/h | 191.1 | 209.8 | 232.1 | 246.5 | 272.0 |
| | Power Input | kW | 17.90 | 20.50 | 22.82 | 24.58 | 27.59 |
| | EER | kW/kW | 3.13 | 3.00 | 2.98 | 2.95 | 2.90 |
| Heating | Capacity | kW | 63.0 | 69.0 | 75.0 | 80.0 | 90.0 |
| | | kBtu/h | 215.0 | 235.4 | 255.0 | 272.0 | 306.0 |
| | Power Input | kW | 19.87 | 22.48 | 24.59 | 26.67 | 30.41 |
| | COP | kW/kW | 3.17 | 3.07 | 3.05 | 3.00 | 2.96 |
| Ventilation | Air Flow Rate | $m^3$/min | 267 | 296 | 296 | 350 | 350 |
| | Fan Quantity | | 2 | 2 | 2 | 2 | 2 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 63 | 64 | 66 | 67 | 67 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | | |
| | Compressor Quantity | PC | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 14.3 | 15.5 | 15.5 | 17.3 | 17.3 |
| Weight | Net Weight | kg | 361 | 369 | 370 | 414 | 415 |
| | Gross Weight | kg | 395 | 396 | 397 | 446 | 447 |
| Dimensions | External (HxWxD) | mm | 1730x1350x750 | 1730x1350x750 | 1730x1350x750 | 1730x1600x750 | 1730x1600x750 |
| | Packing(HxWxD) | mm | 1930x1420x790 | 1930x1420x790 | 1930x1420x790 | 1930x1665x790 | 1930x1665x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ28.60 | Φ28.60 | Φ28.60 | Φ31.75 | Φ31.75 |
| | | inch | 1-1/8 | 1-1/8 | 1-1/8 | 1-1/4 | 1-1/4 |
| | Liquid | mm | Φ15.88 | Φ15.88 | Φ15.88 | Φ19.05 | Φ19.05 |
| | | inch | 5/8 | 5/8 | 5/8 | 3/4 | 3/4 |
| Connectable Indoor Units | Quantity | PC | 33 | 36 | 40 | 43 | 47 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) |
| | | m(below) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) |
| | Height Difference Between IDUs | m | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series


| HP | | | 30HP | 32HP | 34HP | 36HP | 38HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-290HKSS | AVWT-308HKSS | AVWT-324HKSS | AVWT-344HKSS | AVWT-360HKSS |
| | Modules | | AVWT-154HKSS<br>AVWT-136HKSS | AVWT-154HKSS<br>AVWT-154HKSS | AVWT-170HKSS<br>AVWT-154HKSS | AVWT-190HKSS<br>AVWT-154HKSS | AVWT-190HKSS<br>AVWT-170HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 85.0 | 90.0 | 95.0 | 101.0 | 106.0 |
| | | kBtu/h | 290.0 | 307.0 | 324.1 | 344.6 | 361.7 |
| | Power Input | kW | 23.03 | 25.00 | 28.13 | 30.40 | 33.53 |
| | EER | kW/kW | 3.69 | 3.60 | 3.38 | 3.32 | 3.16 |
| Heating | Capacity | kW | 95.0 | 100.0 | 106.0 | 113.0 | 119.0 |
| | | kBtu/h | 324.1 | 341.2 | 361.7 | 385.6 | 406.1 |
| | Power Input | kW | 25.42 | 27.40 | 30.67 | 33.57 | 36.84 |
| | COP | kW/kW | 3.74 | 3.65 | 3.46 | 3.37 | 3.23 |
| Ventilation | Air Flow Rate | $m^3$/min | 400 | 400 | 400 | 467 | 467 |
| | Fan Quantity | | 4 | 4 | 4 | 4 | 4 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 67 | 67 | 67 | 67 | 67 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | | |
| | Compressor Quantity | PC | 2 | 2 | 3 | 3 | 4 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 24.0 | 24.0 | 25.20 | 26.30 | 27.5 |
| Weight | Net Weight | kg | 595 | 596 | 645 | 659 | 708 |
| | Gross Weight | kg | 643 | 644 | 693 | 717 | 766 |
| Dimensions | External (HxWxD) | mm | 1730x (1210+1210) x750 | 1730x (1210+1210) x750 | 1730x (1210+1210) x750 | 1730x (1210+1350) x750 | 1730x (1210+1350) x750 |
| | Packing(HxWxD) | mm | 1930x (1275+1275) x790 | 1930x (1275+1275) x790 | 1930x (1275+1275) x790 | 1930x (1275+1420) x790 | 1930x (1275+1420) x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ31.75 | Φ31.75 | Φ38.1 | Φ38.1 | Φ38.1 |
| | | inch | 1-1/4 | 1-1/4 | 1-1/2 | 1-1/2 | 1-1/2 |
| | Liquid | mm | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 |
| | | inch | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Connectable Indoor Units | Quantity | PC | 49 | 52 | 55 | 59 | 62 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) |
| | | m(below) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) |
| | Height Difference Between IDUs | m | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series


| HP | | | 40HP | 42HP | 44HP | 46HP | 48HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-380HKSS | AVWT-402HKSS | AVWT-422HKSS | AVWT-444HKSS | AVWT-464HKSS |
| | Modules | | AVWT-190HKSS<br>AVWT-190HKSS | AVWT-232HKSS<br>AVWT-170HKSS | AVWT-232HKSS<br>AVWT-190HKSS | AVWT-232HKSS<br>AVWT-212HKSS | AVWT-232HKSS<br>AVWT-232HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 112.0 | 118.0 | 124.0 | 129.5 | 136.0 |
| | | kBtu/h | 382.1 | 402.7 | 432.2 | 441.9 | 464.2 |
| | Power Input | kW | 35.80 | 38.45 | 40.72 | 43.32 | 45.64 |
| | EER | kW/kW | 3.13 | 3.07 | 3.05 | 2.99 | 2.98 |
| Heating | Capacity | kW | 126.0 | 131.0 | 138.0 | 144.0 | 150.0 |
| | | kBtu/h | 430.0 | 446.1 | 470.0 | 490.4 | 510.0 |
| | Power Input | kW | 39.74 | 41.56 | 44.46 | 47.07 | 49.18 |
| | COP | kW/kW | 3.17 | 3.15 | 3.10 | 3.06 | 3.05 |
| Ventilation | Air Flow Rate | $m^3$/min | 534 | 496 | 563 | 592 | 592 |
| | Fan Quantity | | 4 | 4 | 4 | 4 | 4 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 67 | 67 | 68 | 68 | 69 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | | |
| | Compressor Quantity | PC | 4 | 4 | 4 | 4 | 4 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 28.6 | 28.7 | 29.8 | 31.0 | 31.0 |
| Weight | Net Weight | kg | 722 | 717 | 731 | 739 | 740 |
| | Gross Weight | kg | 790 | 768 | 792 | 793 | 794 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1350+1350)<br>x750 | 1730x<br>(1210+1350)<br>x750 | 1730x<br>(1350+1350)<br>x750 | 1730x<br>(1350+1350)<br>x750 | 1730x<br>(1350+1350)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1420+1420)<br>x790 | 1930x<br>(1275+1420)<br>x790 | 1930x<br>(1420+1420)<br>x790 | 1930x<br>(1420+1420)<br>x790 | 1930x<br>(1420+1420)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ38.1 | Φ38.1 | Φ38.1 | Φ41.3 | Φ41.3 |
| | | inch | 1-1/2 | 1-1/2 | 1-1/2 | 1-5/8 | 1-5/8 |
| | Liquid | mm | Φ19.05 | Φ19.05 | Φ19.05 | Φ22.2 | Φ22.2 |
| | | inch | 3/4 | 3/4 | 3/4 | 7/8 | 7/8 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series


| HP | | | 50HP | 52HP | 54HP | 56HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-482HKSS | AVWT-504HKSS | AVWT-522HKSS | AVWT-544HKSS |
| | Modules | | AVWT-250HKSS<br>AVWT-232HKSS | AVWT-272HKSS<br>AVWT-232HKSS | AVWT-272HKSS<br>AVWT-250HKSS | AVWT-272HKSS<br>AVWT-272HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 140.5 | 148.0 | 152.5 | 160.0 |
| | | kBtu/h | 478.6 | 504.1 | 518.5 | 544.0 |
| | Power Input | kW | 47.40 | 50.41 | 52.17 | 55.18 |
| | EER | kW/kW | 2.96 | 2.94 | 2.92 | 2.90 |
| Heating | Capacity | kW | 155.0 | 165.0 | 170.0 | 180.0 |
| | | kBtu/h | 527.0 | 561.0 | 578.0 | 612.0 |
| | Power Input | kW | 51.26 | 55.00 | 57.08 | 60.82 |
| | COP | kW/kW | 3.02 | 3.00 | 2.98 | 2.96 |
| Ventilation | Air Flow Rate | $m^3$/min | 646 | 646 | 700 | 700 |
| | Fan Quantity | | 4 | 4 | 4 | 4 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 70 | 70 | 70 | 70 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 4 | 4 | 4 | 4 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 32.8 | 32.8 | 34.6 | 34.6 |
| Weight | Net Weight | kg | 784 | 785 | 829 | 830 |
| | Gross Weight | kg | 843 | 844 | 893 | 894 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1350+1600)<br>x750 | 1730x<br>(1350+1600)<br>x750 | 1730x<br>(1600+1600)<br>x750 | 1730x<br>(1600+1600)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1420+1665)<br>x790 | 1930x<br>(1420+1665)<br>x790 | 1930x<br>(1665+1665)<br>x790 | 1930x<br>(1665+1665)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ41.3 | Φ41.3 | Φ41.3 | Φ41.3 |
| | | inch | 1-5/8 | 1-5/8 | 1-5/8 | 1-5/8 |
| | Liquid | mm | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 |
| | | inch | 7/8 | 7/8 | 7/8 | 7/8 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series

| HP | | | 58HP | 60HP | 62HP | 64HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-552HKSS | AVWT-570HKSS | AVWT-592HKSS | AVWT-612HKSS |
| | Modules | | AVWT-212HKSS<br>AVWT-170HKSS<br>AVWT-170HKSS | AVWT-190HKSS<br>AVWT-190HKSS<br>AVWT-190HKSS | AVWT-232HKSS<br>AVWT-190HKSS<br>AVWT-170HKSS | AVWT-232HKSS<br>AVWT-190HKSS<br>AVWT-190HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 161.5 | 168.0 | 174.0 | 180.0 |
| | | kBtu/h | 551.0 | 573.3 | 593.7 | 614.3 |
| | Power Input | kW | 51.76 | 53.70 | 56.35 | 58.62 |
| | EER | kW/kW | 3.12 | 3.13 | 3.09 | 3.07 |
| Heating | Capacity | kW | 181.0 | 189.0 | 194.0 | 201.0 |
| | | kBtu/h | 617.6 | 645.0 | 661.1 | 685.0 |
| | Power Input | kW | 56.42 | 59.61 | 61.43 | 64.33 |
| | COP | kW/kW | 3.21 | 3.17 | 3.16 | 3.12 |
| Ventilation | Air Flow Rate | $m^3$/min | 696 | 801 | 763 | 830 |
| | Fan Quantity | | 6 | 6 | 6 | 6 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 70 | 70 | 70 | 70 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 6 | 6 | 6 | 6 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 41.9 | 42.9 | 43.0 | 44.1 |
| Weight | Net Weight | kg | 1063 | 1083 | 1078 | 1092 |
| | Gross Weight | kg | 1138 | 1185 | 1163 | 1187 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1210+1210+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 | 1730x<br>(1210+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1275+1275+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 | 1930x<br>(1275+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ44.5 | Φ44.5 | Φ44.5 | Φ44.5 |
| | | inch | 1-3/4 | 1-3/4 | 1-3/4 | 1-3/4 |
| | Liquid | mm | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 |
| | | inch | 7/8 | 7/8 | 7/8 | 7/8 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series

| HP | | | 66HP | 68HP | 70HP | 72HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-634HKSS | AVWT-654HKSS | AVWT-676HKSS | AVWT-696HKSS |
| | Modules | | AVWT-232HKSS<br>AVWT-212HKSS<br>AVWT-190HKSS | AVWT-232HKSS<br>AVWT-232HKSS<br>AVWT-190HKSS | AVWT-232HKSS<br>AVWT-232HKSS<br>AVWT-212HKSS | AVWT-232HKSS<br>AVWT-232HKSS<br>AVWT-232HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 185.5 | 192.0 | 197.5 | 204.0 |
| | | kBtu/h | 633.0 | 655.3 | 674.0 | 696.3 |
| | Power Input | kW | 61.22 | 63.54 | 66.14 | 68.46 |
| | EER | kW/kW | 3.03 | 3.02 | 2.99 | 2.98 |
| Heating | Capacity | kW | 207.0 | 213.0 | 219.0 | 225.0 |
| | | kBtu/h | 705.4 | 725.0 | 745.4 | 765.0 |
| | Power Input | kW | 66.94 | 69.05 | 71.66 | 73.77 |
| | COP | kW/kW | 3.09 | 3.08 | 3.06 | 3.05 |
| Ventilation | Air Flow Rate | $m^3$/min | 859 | 859 | 888 | 888 |
| | Fan Quantity | | 6 | 6 | 6 | 6 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 70 | 70 | 70 | 71 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 6 | 6 | 6 | 6 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 45.3 | 45.3 | 46.5 | 46.5 |
| Weight | Net Weight | kg | 1100 | 1101 | 1109 | 1110 |
| | Gross Weight | kg | 1188 | 1189 | 1190 | 1191 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1350+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1420+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ44.5 | Φ50.8 | Φ50.8 | Φ50.8 |
| | | inch | 1-3/4 | 2 | 2 | 2 |
| | Liquid | mm | Φ22.2 | Φ25.4 | Φ25.4 | Φ25.4 |
| | | inch | 7/8 | 1 | 1 | 1 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series

| HP | | | 74HP | 76HP | 78HP | 80HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-714HKSS | AVWT-732HKSS | AVWT-754HKSS | AVWT-776HKSS |
| | Modules | | AVWT-250HKSS<br>AVWT-232HKSS<br>AVWT-232HKSS | AVWT-250HKSS<br>AVWT-250HKSS<br>AVWT-232HKSS | AVWT-272HKSS<br>AVWT-250HKSS<br>AVWT-232HKSS | AVWT-272HKSS<br>AVWT-272HKSS<br>AVWT-232HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 208.5 | 213.0 | 220.5 | 228.0 |
| | | kBtu/h | 710.7 | 725.1 | 750.6 | 776.1 |
| | Power Input | kW | 70.22 | 71.98 | 74.99 | 78.00 |
| | EER | kW/kW | 2.97 | 2.96 | 2.95 | 2.92 |
| Heating | Capacity | kW | 230.0 | 235.0 | 245.0 | 255.0 |
| | | kBtu/h | 782.0 | 799.0 | 833.0 | 867.0 |
| | Power Input | kW | 75.85 | 77.93 | 81.67 | 85.41 |
| | COP | kW/kW | 3.03 | 3.02 | 3.00 | 2.98 |
| Ventilation | Air Flow Rate | $m^3$/min | 942 | 996 | 996 | 996 |
| | Fan Quantity | | 6 | 6 | 6 | 6 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 71 | 71 | 71 | 71 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 6 | 6 | 6 | 6 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 48.3 | 50.1 | 50.1 | 50.1 |
| Weight | Net Weight | kg | 1154 | 1198 | 1199 | 1200 |
| | Gross Weight | kg | 1240 | 1289 | 1290 | 1291 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1350+1350+1600)<br>x750 | 1730x<br>(1350+1600+1600)<br>x750 | 1730x<br>(1350+1600+1600)<br>x750 | 1730x<br>(1350+1600+1600)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1420+1420+1665)<br>x790 | 1930x<br>(1420+1665+1665)<br>x790 | 1930x<br>(1420+1665+1665)<br>x790 | 1930x<br>(1420+1665+1665)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 |
| | | inch | 2 | 2 | 2 | 2 |
| | Liquid | mm | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 |
| | | inch | 1 | 1 | 1 | 1 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series

| HP | | | 82HP | 84HP | 86HP | 88HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-794HKSS | AVWT-816HKSS | AVWT-824HKSS | AVWT-844HKSS |
| | Modules | | AVWT-272HKSS<br>AVWT-272HKSS<br>AVWT-250HKSS | AVWT-272HKSS<br>AVWT-272HKSS<br>AVWT-272HKSS | AVWT-232HKSS<br>AVWT-212HKSS<br>AVWT-190HKSS<br>AVWT-190HKSS | AVWT-232HKSS<br>AVWT-232HKSS<br>AVWT-190HKSS<br>AVWT-190HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 232.5 | 240.0 | 241.5 | 248.0 |
| | | kBtu/h | 790.5 | 816.0 | 824.1 | 846.4 |
| | Power Input | kW | 79.76 | 82.77 | 79.12 | 81.44 |
| | EER | kW/kW | 2.91 | 2.90 | 3.05 | 3.05 |
| Heating | Capacity | kW | 260.0 | 270.0 | 270.0 | 276.0 |
| | | kBtu/h | 884.0 | 918.0 | 920.4 | 940.0 |
| | Power Input | kW | 87.49 | 91.23 | 86.81 | 88.92 |
| | COP | kW/kW | 2.97 | 2.96 | 3.11 | 3.10 |
| Ventilation | Air Flow Rate | $m^3$/min | 1050 | 1050 | 1126 | 1126 |
| | Fan Quantity | | 6 | 6 | 8 | 8 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 72 | 72 | 72 | 72 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 6 | 6 | 8 | 8 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 51.9 | 51.9 | 59.6 | 59.6 |
| Weight | Net Weight | kg | 1244 | 1245 | 1461 | 1462 |
| | Gross Weight | kg | 1340 | 1341 | 1583 | 1584 |
| Dimensions | External (HxWxD) | mm | 1730x<br>(1600+1600+1600)<br>x750 | 1730x<br>(1600+1600+1600)<br>x750 | 1730x<br>(1350+1350+1350+1350)<br>x750 | 1730x<br>(1350+1350+1350+1350)<br>x750 |
| | Packing(HxWxD) | mm | 1930x<br>(1665+1665+1665)<br>x790 | 1930x<br>(1665+1665+1665)<br>x790 | 1930x<br>(1420+1420+1420+1420)<br>x790 | 1930x<br>(1420+1420+1420+1420)<br>x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 |
| | | inch | 2 | 2 | 2 | 2 |
| | Liquid | mm | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 |
| | | inch | 1 | 1 | 1 | 1 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series

| HP | | | 90HP | 92HP | 94HP | 96HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-866HKSS | AVWT-886HKSS | AVWT-908HKSS | AVWT-928HKSS |
| | Modules | | AVWT-232HKSS | AVWT-232HKSS | AVWT-232HKSS | AVWT-232HKSS |
| | | | AVWT-232HKSS | AVWT-232HKSS | AVWT-232HKSS | AVWT-232HKSS |
| | | | AVWT-212HKSS | AVWT-232HKSS | AVWT-232HKSS | AVWT-232HKSS |
| | | | AVWT-190HKSS | AVWT-190HKSS | AVWT-212HKSS | AVWT-232HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 253.5 | 260.0 | 265.5 | 272.0 |
| | | kBtu/h | 865.1 | 887.4 | 906.1 | 928.4 |
| | Power Input | kW | 84.04 | 86.36 | 88.96 | 91.28 |
| | EER | kW/kW | 3.02 | 3.01 | 2.98 | 2.98 |
| Heating | Capacity | kW | 282.0 | 288.0 | 294.0 | 300.0 |
| | | kBtu/h | 960.4 | 980.0 | 1000.4 | 1020.0 |
| | Power Input | kW | 91.53 | 93.64 | 96.25 | 98.36 |
| | COP | kW/kW | 3.08 | 3.08 | 3.05 | 3.05 |
| Ventilation | Air Flow Rate | $m^3$/min | 1155 | 1155 | 1184 | 1184 |
| | Fan Quantity | | 8 | 8 | 8 | 8 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 72 | 72 | 72 | 72 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 8 | 8 | 8 | 8 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 60.8 | 60.8 | 62.0 | 62.0 |
| Weight | Net Weight | kg | 1470 | 1471 | 1479 | 1480 |
| | Gross Weight | kg | 1585 | 1586 | 1587 | 1588 |
| Dimensions | External (HxWxD) | mm | 1730x (1350+1350+1350+1350) x750 | 1730x (1350+1350+1350+1350) x750 | 1730x (1350+1350+1350+1350) x750 | 1730x (1350+1350+1350+1350) x750 |
| | Packing(HxWxD) | mm | 1930x (1420+1420+1420+1420) x790 | 1930x (1420+1420+1420+1420) x790 | 1930x (1420+1420+1420+1420) x790 | 1930x (1420+1420+1420+1420) x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 |
| | | inch | 2 | 2 | 2 | 2 |
| | Liquid | mm | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 |
| | | inch | 1 | 1 | 1 | 1 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) |
| | | m(below) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) |
| | Height Difference Between IDUs | m | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series

| HP | | | 98HP | 100HP | 102HP | 104HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-946HKSS | AVWT-968HKSS | AVWT-988HKSS | AVWT-1008HKSS |
| | Modules | | AVWT-250HKSS | AVWT-272HKSS | AVWT-272HKSS | AVWT-272HKSS |
| | | | AVWT-232HKSS | AVWT-232HKSS | AVWT-272HKSS | AVWT-272HKSS |
| | | | AVWT-232HKSS | AVWT-232HKSS | AVWT-232HKSS | AVWT-232HKSS |
| | | | AVWT-232HKSS | AVWT-232HKSS | AVWT-212HKSS | AVWT-232HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 276.5 | 284.0 | 289.5 | 296.0 |
| | | kBtu/h | 942.8 | 968.3 | 985.9 | 1008.0 |
| | Power Input | kW | 93.04 | 96.05 | 98.50 | 100.82 |
| | EER | kW/kW | 2.97 | 2.96 | 2.94 | 2.94 |
| Heating | Capacity | kW | 305.0 | 315.0 | 324.0 | 330.0 |
| | | kBtu/h | 1037.0 | 1071.0 | 1102.4 | 1122.0 |
| | Power Input | kW | 100.44 | 104.18 | 107.89 | 110.00 |
| | COP | kW/kW | 3.04 | 3.02 | 3.00 | 3.00 |
| Ventilation | Air Flow Rate | $m^3$/min | 1238 | 1238 | 1292 | 1292 |
| | Fan Quantity | | 8 | 8 | 8 | 8 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 72 | 72 | 72 | 73 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 8 | 8 | 8 | 8 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 63.8 | 63.8 | 65.6 | 65.6 |
| Weight | Net Weight | kg | 1524 | 1525 | 1569 | 1570 |
| | Gross Weight | kg | 1637 | 1638 | 1687 | 1688 |
| Dimensions | External (HxWxD) | mm | 1730x (1350+1350+1350+1600) x750 | 1730x (1350+1350+1350+1600) x750 | 1730x (1350+1350+1600+1600) x750 | 1730x (1350+1350+1600+1600) x750 |
| | Packing(HxWxD) | mm | 1930x (1420+1420+1420+1665) x790 | 1930x (1420+1420+1420+1665) x790 | 1930x (1420+1420+1665+1665) x790 | 1930x (1420+1420+1665+1665) x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 |
| | | inch | 2 | 2 | 2 | 2 |
| | Liquid | mm | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 |
| | | inch | 1 | 1 | 1 | 1 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) |
| | | m(below) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) |
| | Height Difference Between IDUs | m | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C |

## Hi-FLEXi S Series

| HP | | | 106HP | 108HP | 110HP | 112HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-1026HKSS | AVWT-1048HKSS | AVWT-1066HKSS | AVWT-1088HKSS |
| | Modules | | AVWT-272HKSS | AVWT-272HKSS | AVWT-272HKSS | AVWT-272HKSS |
| | | | AVWT-272HKSS | AVWT-272HKSS | AVWT-272HKSS | AVWT-272HKSS |
| | | | AVWT-250HKSS | AVWT-272HKSS | AVWT-272HKSS | AVWT-272HKSS |
| | | | AVWT-232HKSS | AVWT-232HKSS | AVWT-250HKSS | AVWT-272HKSS |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 300.5 | 308.0 | 312.5 | 320.0 |
| | | kBtu/h | 1022.6 | 1048.1 | 1062.5 | 1088.0 |
| | Power Input | kW | 102.58 | 105.59 | 107.35 | 110.36 |
| | EER | kW/kW | 2.93 | 2.92 | 2.91 | 2.90 |
| Heating | Capacity | kW | 335.0 | 345.0 | 350.0 | 360.0 |
| | | kBtu/h | 1139.0 | 1173.0 | 1190.0 | 1224.0 |
| | Power Input | kW | 112.08 | 115.82 | 117.9 | 121.64 |
| | COP | kW/kW | 2.99 | 2.98 | 2.97 | 2.96 |
| Ventilation | Air Flow Rate | $m^3$/min | 1346 | 1346 | 1400 | 1400 |
| | Fan Quantity | | 8 | 8 | 8 | 8 |
| | Static Pressure | Pa | 110 | 110 | 110 | 110 |
| Sound | Sound Pressure Level | dB(A) | 73 | 73 | 73 | 73 |
| Compressor | Type | - | Enhanced Vapor Injection Scroll Compressor | | | |
| | Compressor Quantity | PC | 8 | 8 | 8 | 8 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 67.4 | 67.4 | 69.2 | 69.2 |
| Weight | Net Weight | kg | 1614 | 1615 | 1659 | 1660 |
| | Gross Weight | kg | 1737 | 1738 | 1787 | 1788 |
| Dimensions | External (HxWxD) | mm | 1730x (1350+1600+1600+1600) x750 | 1730x (1350+1600+1600+1600) x750 | 1730x (1600+1600+1600+1600) x750 | 1730x (1600+1600+1600+1600) x750 |
| | Packing(HxWxD) | mm | 1930x (1420+1665+1665+1665) x790 | 1930x (1420+1665+1665+1665) x790 | 1930x (1665+1665+1665+1665) x790 | 1930x (1665+1665+1665+1665) x790 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ50.8 | Φ50.8 | Φ50.8 | Φ50.8 |
| | | inch | 2 | 2 | 2 | 2 |
| | Liquid | mm | Φ25.4 | Φ25.4 | Φ25.4 | Φ25.4 |
| | | inch | 1 | 1 | 1 | 1 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50%-150% | 50%-150% | 50%-150% | 50%-150% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*1） | 50（90*1） | 50（90*1） | 50（90*1） |
| | | m(below) | 40（90*1） | 40（90*1） | 40（90*1） | 40（90*1） |
| | Height Difference Between IDUs | m | 15（30*1） | 15（30*1） | 15（30*1） | 15（30*1） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°C | -25°C~16.5°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 above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

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

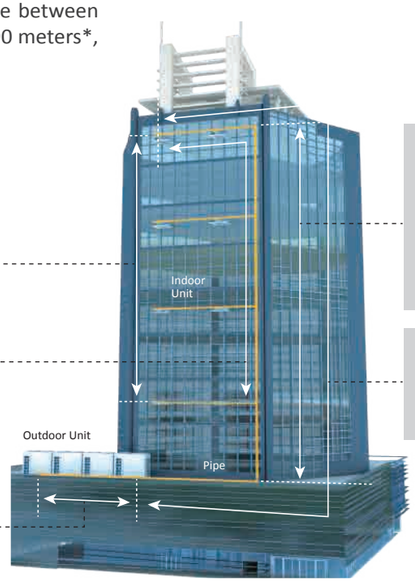
4. For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.

5. When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

*1:For detailed information, please contact Hisense's technical staff.


## Piping Length

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 of indoor units: 15m(30m*)

Maximum length from the first branch pipe to the farthest indoor unit: 90m

Largest pipe length between outdoor units: 10m

Maximum height difference between indoor and outdoor units:

when the outdoor unit is above: 50m(90m*)
when the outdoor unit is below: 40m(90m*)

Maximun actural length of a single pipe: 165m
Total length of pipes: 1000m

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

## Hi-FLEXi X Series

| HP | | | 8HP | 10HP | 12HP | 14HP | 16HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-76UESRX | AVWT-96UESRX | AVWT-114UESSX | AVWT-136UESSX | AVWT-154UESSX |
| | Modules | | —— | —— | —— | —— | —— |
| | Power Supply | | AC 3Φ,380-415V/50Hz | | | | |
| Cooling | Capacity | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 |
| | | kBtu/h | 76.5 | 95.6 | 114.3 | 136.5 | 153.5 |
| | Power Input | kW | 5.25 | 7.31 | 8.57 | 11.05 | 13.16 |
| | EER | kW/kW | 4.27 | 3.83 | 3.91 | 3.62 | 3.42 |
| Heating | Capacity | kW | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 |
| | | kBtu/h | 85.3 | 107.5 | 128.0 | 153.5 | 170.6 |
| | Power Input | kW | 5.62 | 7.61 | 8.89 | 11.08 | 12.47 |
| | COP | kW/kW | 4.45 | 4.14 | 4.22 | 4.06 | 4.01 |
| Ventilation | Air Flow Rate | $m^3$/min | 155 | 170 | 175 | 190 | 190 |
| | Fan Quantity | | 1 | 1 | 1 | 1 | 1 |
| | Static Pressure | Pa | 85 | 85 | 85 | 85 | 85 |
| Sound | Sound Pressure Level | dB(A) | 62/54 | 64/55 | 64/56 | 65/57 | 66/58 |
| Compressor | Type | - | Scroll | | | | |
| | Compressor Quantity | PC | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 6.5 | 6.5 | 9.0 | 9.0 | 10.5 |
| Weight | Net Weight | kg | 197 | 197 | 224 | 227 | 247 |
| | Gross Weight | kg | 223 | 223 | 248 | 250 | 272 |
| Dimensions | External (H×W×D) | mm | 1720×950×750 | 1720×950×750 | 1720×1210×750 | 1720×1210×750 | 1720×1210×750 |
| | Packing(H×W×D) | mm | 1882×1018×828 | 1882×1018×828 | 1882×1278×828 | 1882×1278×828 | 1882×1278×828 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ19.05 | Φ22.2 | Φ25.4 | Φ25.4 | Φ28.6 |
| | | inch | 3/4 | 7/8 | 1 | 1 | 1-1/8 |
| | Liquid | mm | Φ9.53 | Φ9.53 | Φ12.7 | Φ12.7 | Φ12.7 |
| | | inch | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 |
| Connectable Indoor Units | Quantity | PC | 13 | 16 | 19 | 23 | 26 |
| | Total Capacity | - | 50-130% | 50-130% | 50-130% | 50-130% | 50-130% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C |

## Hi-FLEXi X Series

| HP | | | 18HP | 20HP | 22HP | 24HP | 26HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-172UESZX | AVWT-190UESZX | AVWT-210UESZX | AVWT-229UESZX | AVWT-250UESZX |
| | Modules | | AVWT-76UESRX<br>AVWT-96UESRX | AVWT-76UESRX<br>AVWT-114UESSX | AVWT-96UESRX<br>AVWT-114UESSX | AVWT-114UESSX<br>AVWT-114UESSX | AVWT-114UESSX<br>AVWT-136UESSX |
| | Power Supply | | AC 3Φ,380-415V/50Hz | | | | |
| Cooling | Capacity | kW | 50.4 | 56.0 | 61.5 | 67.0 | 73.5 |
| | | kBtu/h | 172.0 | 191.1 | 209.8 | 228.6 | 250.8 |
| | Power Input | kW | 12.56 | 13.82 | 15.88 | 17.14 | 19.62 |
| | EER | kW/kW | 4.01 | 4.05 | 3.87 | 3.91 | 3.75 |
| Heating | Capacity | kW | 56.5 | 62.5 | 69.0 | 75.0 | 82.5 |
| | | kBtu/h | 192.8 | 213.3 | 235.5 | 256.0 | 281.5 |
| | Power Input | kW | 13.23 | 14.51 | 16.50 | 17.78 | 19.97 |
| | COP | kW/kW | 4.27 | 4.31 | 4.18 | 4.22 | 4.13 |
| Ventilation | Air Flow Rate | $m^3$/min | 155+170 | 155+175 | 170+175 | 175+175 | 175+190 |
| | Fan Quantity | | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 |
| | Static Pressure | Pa | 85 | 85 | 85 | 85 | 85 |
| Sound | Sound Pressure Level | dB(A) | 66/57 | 68/60 | 68/60 | 68/60 | 68/60 |
| Compressor | Type | - | Scroll | | | | |
| | Compressor Quantity | PC | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 13.0 | 15.5 | 15.5 | 18.0 | 18.0 |
| Weight | Net Weight | kg | 197+197 | 197+224 | 197+224 | 224+224 | 224+227 |
| | Gross Weight | kg | 223+223 | 223+248 | 223+248 | 248+248 | 248+250 |
| Dimensions | External (H×W×D) | mm | 1720×<br>(950+950)<br>×750 | 1720×<br>(950+1210)<br>×750 | 1720×<br>(950+1210)<br>×750 | 1720×<br>(1210+1210)<br>×750 | 1720×<br>(1210+1210)<br>×750 |
| | Packing(H×W×D) | mm | — | — | — | — | — |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ28.6 | Φ28.6 | Φ28.6 | Φ28.6 | Φ31.75 |
| | | inch | 1-1/8 | 1-1/8 | 1-1/8 | 1-1/8 | 1-1/4 |
| | Liquid | mm | Φ15.88 | Φ15.88 | Φ15.88 | Φ15.88 | Φ19.05 |
| | | inch | 5/8 | 5/8 | 5/8 | 5/8 | 3/4 |
| Connectable Indoor Units | Quantity | PC | 26 | 33 | 36 | 40 | 43 |
| | Total Capacity | - | 50-130% | 50-130% | 50-130% | 50-130% | 50-130% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C |

## Hi-FLEXi X Series

| HP | | | 28HP | 30HP | 32HP | 34HP | 36HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-268UESZX | AVWT-290UESZX | AVWT-307UESZX | AVWT-324UESZX | AVWT-343UESZX |
| | Modules | | AVWT-114UESSX<br>AVWT-154UESSX | AVWT-136UESSX<br>AVWT-154UESSX | AVWT-154UESSX<br>AVWT-154UESSX | AVWT-96UESRX<br>AVWT-114UESSX<br>AVWT-114UESSX | AVWT-114UESSX<br>AVWT-114UESSX<br>AVWT-114UESSX |
| | Power Supply | | AC 3Φ,380-415V/50Hz | | | | |
| Cooling | Capacity | kW | 78.5 | 85.0 | 90.0 | 96.0 | 100.5 |
| | | kBtu/h | 267.8 | 290.0 | 307.1 | 327.6 | 342.9 |
| | Power Input | kW | 21.73 | 24.21 | 26.32 | 24.45 | 25.71 |
| | EER | kW/kW | 3.61 | 3.51 | 3.42 | 3.93 | 3.91 |
| Heating | Capacity | kW | 87.5 | 95.0 | 100.0 | 106.5 | 112.5 |
| | | kBtu/h | 298.6 | 324.1 | 341.2 | 363.5 | 384.0 |
| | Power Input | kW | 21.36 | 23.55 | 24.94 | 25.39 | 26.67 |
| | COP | kW/kW | 4.10 | 4.03 | 4.01 | 4.19 | 4.22 |
| Ventilation | Air Flow Rate | $m^3$/min | 175+190 | 190+190 | 190+190 | 170+175+175 | 175+175+175 |
| | Fan Quantity | | 1+1 | 1+1 | 1+1 | 1+1+1 | 1+1+1 |
| | Static Pressure | Pa | 85 | 85 | 85 | 85 | 85 |
| Sound | Sound Pressure Level | dB(A) | 69/61 | 69/61 | 69/62 | 70/63 | 70/63 |
| Compressor | Type | - | Scroll | | | | |
| | Compressor Quantity | PC | 1+1 | 1+1 | 1+1 | 1+1+1 | 1+1+1 |
| Refrigerant | Type | - | R410A | | | | |
| | Pre-charged Quantity | kg | 19.5 | 19.5 | 21.0 | 24.5 | 27.0 |
| Weight | Net Weight | kg | 224+247 | 227+247 | 247+247 | 197+224+224 | 224+224+224 |
| | Gross Weight | kg | 248+272 | 250+272 | 272+272 | 223+248+248 | 248+248+248 |
| Dimensions | External (H×W×D) | mm | 1720×<br>(1210+1210)<br>×750 | 1720×<br>(1210+1210)<br>×750 | 1720×<br>(1210+1210)<br>×750 | 1720×<br>(950+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210)<br>×750 |
| | Packing(H×W×D) | mm | — | — | — | — | — |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ31.75 | Φ31.75 | Φ31.75 | Φ31.75 | Φ38.1 |
| | | inch | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/2 |
| | Liquid | mm | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 |
| | | inch | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Connectable Indoor Units | Quantity | PC | 47 | 50 | 53 | 56 | 59 |
| | Total Capacity | - | 50-130% | 50-130% | 50-130% | 50-130% | 50-130% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C |

## Hi-FLEXi X Series

| HP | | | 38HP | 40HP | 42HP | 44HP | 46HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-365UESZX | AVWT-386UESZX | AVWT-404UESZX | AVWT-420UESZX | AVWT-444UESZX |
| | Modules | | AVWT-114UESSX<br>AVWT-114UESSX<br>AVWT-136UESSX | AVWT-114UESSX<br>AVWT-114UESSX<br>AVWT-154UESSX | AVWT-114UESSX<br>AVWT-136UESSX<br>AVWT-154UESSX | AVWT-114UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX | AVWT-136UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX |
| | Power Supply | | AC 3Φ,380-415V/50Hz | | | | |
| Cooling | Capacity | kW | 107.0 | 113.0 | 118.5 | 123.5 | 130.0 |
| | | kBtu/h | 365.1 | 385.6 | 404.3 | 421.1 | 443.6 |
| | Power Input | kW | 28.19 | 30.30 | 32.78 | 34.89 | 37.37 |
| | EER | kW/kW | 3.80 | 3.73 | 3.62 | 3.54 | 3.48 |
| Heating | Capacity | kW | 120.0 | 125.0 | 132.5 | 137.5 | 145.0 |
| | | kBtu/h | 409.5 | 426.6 | 452.1 | 469.2 | 494.7 |
| | Power Input | kW | 28.86 | 30.25 | 32.44 | 33.83 | 36.02 |
| | COP | kW/kW | 4.16 | 4.13 | 4.08 | 4.06 | 4.03 |
| Ventilation | Air Flow Rate | $m^3$/min | 175+175+190 | 175+175+190 | 175+190+190 | 175+190+190 | 190+190+190 |
| | Fan Quantity | | 1+1+1 | 1+1+1 | 1+1+1 | 1+1+1 | 1+1+1 |
| | Static Pressure | Pa | 85 | 85 | 85 | 85 | 85 |
| Sound | Sound Pressure Level | dB(A) | 71/64 | 71/64 | 71/64 | 72/65 | 72/65 |
| Compressor | Type | - | | | Scroll | | |
| | Compressor Quantity | PC | 1+1+1 | 1+1+1 | 1+1+1 | 1+1+1 | 1+1+1 |
| Refrigerant | Type | - | | | R410A | | |
| | Pre-charged Quantity | kg | 27.0 | 28.5 | 28.5 | 30.0 | 30.0 |
| Weight | Net Weight | kg | 224+224+227 | 224+224+247 | 224+227+247 | 224+247+247 | 227+247+247 |
| | Gross Weight | kg | 248+248+250 | 248+248+272 | 248+250+272 | 248+272+272 | 250+272+272 |
| Dimensions | External (H×W×D) | mm | 1720×<br>(1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210)<br>×750 |
| | Packing(H×W×D) | mm | — | — | — | — | — |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ38.1 | Φ38.1 | Φ38.1 | Φ38.1 | Φ38.1 |
| | | inch | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 |
| | Liquid | mm | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 |
| | | inch | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50-130% | 50-130% | 50-130% | 50-130% | 50-130% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) |
| | | m(below) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) |
| | Height Difference Between IDUs | m | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C |

## Hi-FLEXi X Series

| HP | | | 48HP | 50HP | 52HP | 54HP | 56HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWT-460UESZX | AVWT-480UESZX | AVWT-500UESZX | AVWT-520UESZX | AVWT-540UESZX |
| | Modules | | AVWT-154UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX | AVWT-114UESSX<br>AVWT-114UESSX<br>AVWT-114UESSX<br>AVWT-136UESSX | AVWT-114UESSX<br>AVWT-114UESSX<br>AVWT-136UESSX<br>AVWT-136UESSX | AVWT-114UESSX<br>AVWT-114UESSX<br>AVWT-136UESSX<br>AVWT-154UESSX | AVWT-114UESSX<br>AVWT-114UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX |
| | Power Supply | | AC 3Φ,380-415V/50Hz | | | | |
| Cooling | Capacity | kW | 135.0 | 140.4 | 146.0 | 151.5 | 157.0 |
| | | kBtu/h | 460.6 | 479.0 | 498.2 | 516.9 | 535.7 |
| | Power Input | kW | 39.48 | 36.76 | 39.24 | 41.35 | 43.46 |
| | EER | kW/kW | 3.42 | 3.82 | 3.72 | 3.66 | 3.61 |
| Heating | Capacity | kW | 150.0 | 156.5 | 163.0 | 169.0 | 175.0 |
| | | kBtu/h | 511.8 | 534.0 | 556.2 | 576.6 | 597.1 |
| | Power Input | kW | 37.41 | 37.75 | 39.94 | 41.33 | 42.72 |
| | COP | kW/kW | 4.01 | 4.15 | 4.08 | 4.09 | 4.10 |
| Ventilation | Air Flow Rate | $m^3$/min | 190+190+190 | 175+175+175+190 | 175+175+190+190 | 175+175+190+190 | 175+175+190+190 |
| | Fan Quantity | | 1+1+1 | 1+1+1+1 | 1+1+1+1 | 1+1+1+1 | 1+1+1+1 |
| | Static Pressure | Pa | 85 | 85 | 85 | 85 | 85 |
| Sound | Sound Pressure Level | dB(A) | 72/65 | 73/66 | 73/66 | 73/66 | 73/66 |
| Compressor | Type | - | | | Scroll | | |
| | Compressor Quantity | PC | 1+1+1 | 1+1+1+1 | 1+1+1+1 | 1+1+1+1 | 1+1+1+1 |
| Refrigerant | Type | - | | | R410A | | |
| | Pre-charged Quantity | kg | 31.5 | 36.0 | 36.0 | 37.5 | 39.0 |
| Weight | Net Weight | kg | 247+247+247 | 224+224+224+227 | 224+224+227+227 | 224+224+227+247 | 224+224+247+247 |
| | Gross Weight | kg | 272+272+272 | 248+248+248+250 | 248+248+250+250 | 248+248+250+272 | 248+248+272+272 |
| Dimensions | External (H×W×D) | mm | 1720×<br>(1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210+1210)<br>×750 |
| | Packing(H×W×D) | mm | — | — | — | — | — |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ38.1 | Φ41.3 | Φ41.3 | Φ41.3 | Φ41.3 |
| | | inch | 1-1/2 | 1-5/8 | 1-5/8 | 1-5/8 | 1-5/8 |
| | Liquid | mm | Φ19.05 | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 |
| | | inch | 3/4 | 7/8 | 7/8 | 7/8 | 7/8 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50-130% | 50-130% | 50-130% | 50-130% | 50-130% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) | 50 (90*[1]) |
| | | m(below) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) | 40 (90*[1]) |
| | Height Difference Between IDUs | m | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) | 15 (30*[1]) |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C |

## Hi-FLEXi X Series

| HP | | | 58HP | 60HP | 62HP | 64HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWT-560UESZX | AVWT-580UESZX | AVWT-600UESZX | AVWT-620UESZX |
| | Modules | | AVWT-114UESSX<br>AVWT-136UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX | AVWT-114UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX | AVWT-136UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX | AVWT-154UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX<br>AVWT-154UESSX |
| | Power Supply | | AC 3Φ,380-415V/50Hz | | | |
| Cooling | Capacity | kW | 163.5 | 168.5 | 175.0 | 180.0 |
| | | kBtu/h | 557.9 | 574.9 | 597.1 | 614.2 |
| | Power Input | kW | 45.94 | 48.05 | 50.53 | 52.64 |
| | EER | kW/kW | 3.56 | 3.51 | 3.46 | 3.42 |
| Heating | Capacity | kW | 182.5 | 187.5 | 195.0 | 200.0 |
| | | kBtu/h | 622.7 | 639.8 | 665.3 | 682.4 |
| | Power Input | kW | 44.91 | 46.30 | 48.49 | 49.88 |
| | COP | kW/kW | 4.06 | 4.05 | 4.02 | 4.01 |
| Ventilation | Air Flow Rate | $m^3$/min | 175+190+190+190 | 175+190+190+190 | 190+190+190+190 | 190+190+190+190 |
| | Fan Quantity | | 1+1+1+1 | 1+1+1+1 | 1+1+1+1 | 1+1+1+1 |
| | Static Pressure | Pa | 85 | 85 | 85 | 85 |
| Sound | Sound Pressure Level | dB(A) | 74/67 | 74/67 | 74/67 | 74/67 |
| Compressor | Type | - | Scroll | | | |
| | Compressor Quantity | PC | 1+1+1+1 | 1+1+1+1 | 1+1+1+1 | 1+1+1+1 |
| Refrigerant | Type | - | R410A | | | |
| | Pre-charged Quantity | kg | 39.0 | 40.5 | 40.5 | 42.0 |
| Weight | Net Weight | kg | 224+227+247+247 | 224+247+247+247 | 227+247+247+247 | 247+247+247+247 |
| | Gross Weight | kg | 248+250+272+272 | 248+272+272+272 | 250+272+272+272 | 272+272+272+272 |
| Dimensions | External (H×W×D) | mm | 1720×<br>(1210+1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210+1210)<br>×750 | 1720×<br>(1210+1210+1210+1210)<br>×750 |
| | Packing(H×W×D) | mm | — | — | — | — |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ44.5 | Φ44.5 | Φ44.5 | Φ44.5 |
| | | inch | 1-3/4 | 1-3/4 | 1-3/4 | 1-3/4 |
| | Liquid | mm | Φ22.2 | Φ22.2 | Φ22.2 | Φ22.2 |
| | | inch | 7/8 | 7/8 | 7/8 | 7/8 |
| Connectable Indoor Units | Quantity | PC | 64 | 64 | 64 | 64 |
| | Total Capacity | - | 50-130% | 50-130% | 50-130% | 50-130% |
| Piping Design | Height Difference Between ODU and IDU | m(above) | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） | 50（90*[1]） |
| | | m(below) | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） | 40（90*[1]） |
| | Height Difference Between IDUs | m | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） | 15（30*[1]） |
| | Max. Piping Length | m | 165 | 165 | 165 | 165 |
| Operation Range | Cooling | DB | -5°C~52°C | -5°C~52°C | -5°C~52°C | -5°C~52°C |
| | Heating | WB | -20°C~15°C | -20°C~15°C | -20°C~15°C | -20°C~15°C |

## NOTES:

1. Rated cooling capacity capacity is 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 diference: 0m

2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

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

4. For 4 modular combination please contact manufacture for special design.

5. When the cooling operation temperature is over 52°C, please contact our professional engineer.

*[1]:For detailed information, please contact Hisense's technical staff.

# Hi-Smart H Series


## Compact Size and Light Weight

Mini VRF H series outdoor units are compact in size for more convinient and flexible space design and installment hides in corners of balconies and yards or even on rooftops when necessary. With smaller and slimmer body frame meaning a lot of unnecessary weights are taken off which makes installment or positioning simpler.

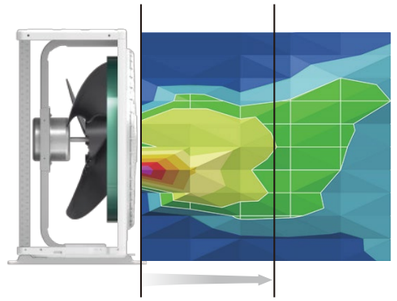

## Aviation Level Design Of Grilling

Hisense H series creates a high-quality quiet environment. The design of the grilling follows the design concept of the aircraft engine design, which conforms to the aerodynamics principle. The noise has been greatly reduced. The grilling also increases safety as being a preventative for child figure being injured by the fan blade.

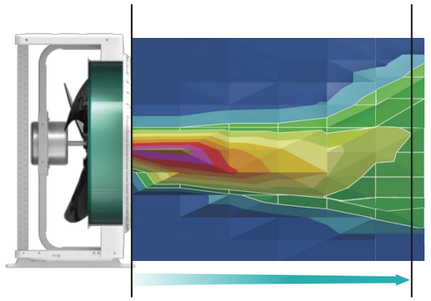

## New Designed Air Channel

An additional air duct like channel surrounding the fan is designed to restrain discharge air from being mixed by itself or surrounding air causing it to be removed out unsteadily, which would result in poor airflow and reducing overall air-conditioning performance. With the aid of the channel, air is tested to discharge upto 24% further from an coventional unit without the channel, ensuring waste heat from the condensing unit is transfered out efficiently.

**24%**
Further Air Discharge



**Air Discharge Distance**

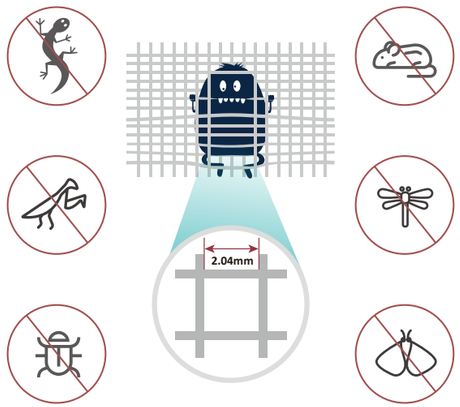


**Air Discharge Distance**

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

## Insect Protection Design

Electrical and electronic components in the electric box is protected from insects or rat invations and infestations.



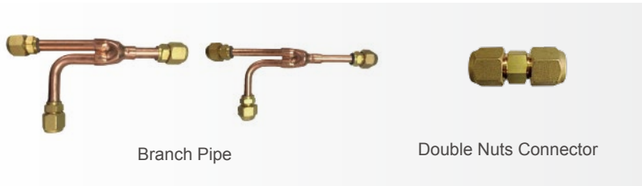

## Flexible Piping Connection

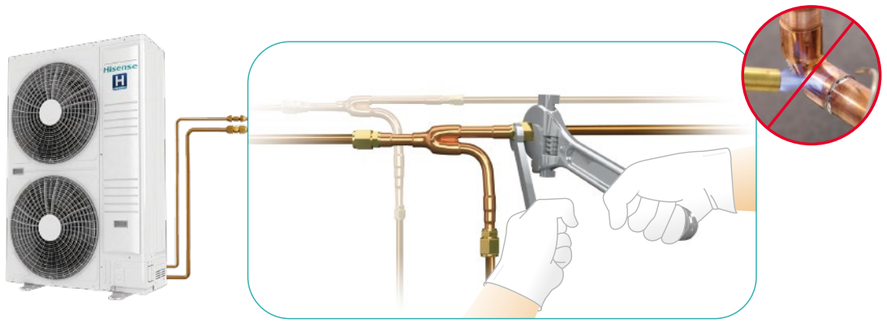
Installation restrictions on site does not stop Hisense mini VRF there with flexible piping directions which includes front, bottom, right, rear connections.

## New Refrigerant Pipe Connection with Flare-nut Branch Pipe

Hisense VRF has newly developed the Flare-nut Branch Pipes, breaking through the common way of connecting refrigerant copper pipes by replacing welding processes with simple and safe flare nuts connections.

- Convenient and simple installation
- Saving installation time and cost
- Enhanced safety with no fire-involving process
- Preventing leakages due to poor welding
- No hot work permit application is required

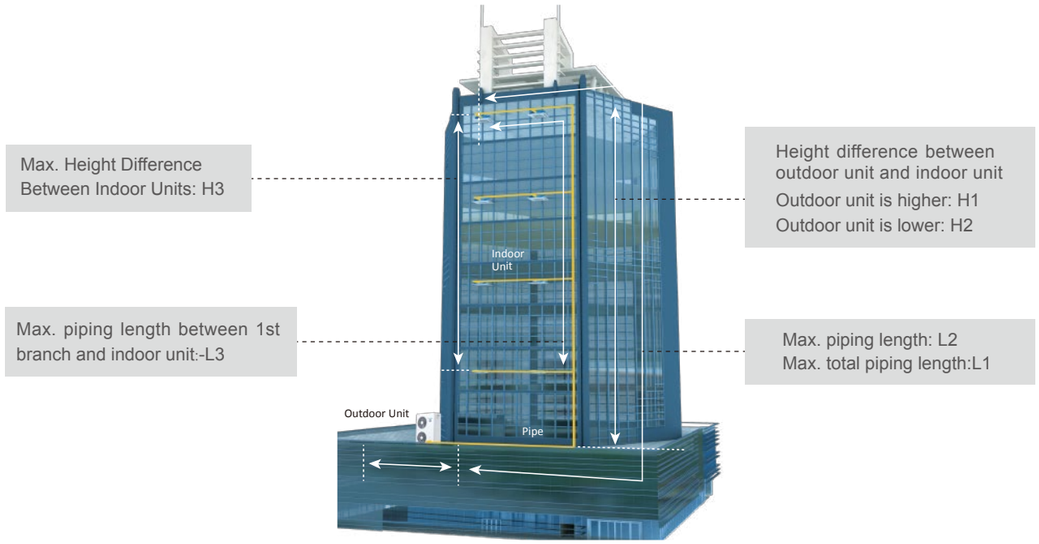


## Piping Length

With extra long pipe, the height difference between the indoor unit and outdoor unit is up to 50 meters*, which makes installation more flexible.

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




| 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-Smart H Series


| HP | | | 3HP | 4HP | 5HP | 5HP |
|---|---|---|---|---|---|---|
| | Model | | AVW-28HJFH | AVW-34HJFH | AVW-43HJFH | AVW-43HKFH |
| | Power Supply | | AC 1Φ,220V-240V 50/60Hz | | | AC 3Φ,380V-415V 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 |
| | COP | kW/kW | 4.01 | 3.72 | 3.37 | 3.80 |
| Ventilation | Air Flow Rate | m³/min | 46.5 | 69.0 | 78.0 | 75.0 |
| Sound | Sound Pressure 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 | | | Ivory White | Ivory White | Ivory White | Ivory White |
| 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 |
| | | inch | 3/8 | 3/8 | 3/8 | 3/8 |
| Connectable Indoor Units | Quantity | PC | 5 | 6 | 8 | 8 |
| | Total Capacity | - | 50%-125% | 50%-125% | 50%-125% | 50%-125% |
| Piping Design | Height Difference Between ODU and IDU | m | 20 | 20 | 20 | 30 |
| | | m | 20 | 20 | 20 | 20 |
| | Height Difference Between IDUs | m | 3.5 | 3.5 | 3.5 | 3.5 |
| | Max. Piping Length | m | 25 | 25 | 50 | 50 |
| Operation Range | Cooling | DB | -5°C~46°C | -5°C~46°C | -5°C~46°C | -5°C~46°C |
| | Heating | WB | -15°C~15.5°C | -15°C~15.5°C | -15°C~15.5°C | -15°C~15.5°C |

## Hi-Smart H Series


| HP | | | 4HP | 5HP | 6HP | 5HP | 6HP |
|---|---|---|---|---|---|---|---|
| | Model | | AVW-38HJFH | AVW-48HJFH | AVW-54HJFH | AVW-48HKFH | AVW-54HKFH |
| | Power Supply | | AC 1Φ,220V-240V 50/60Hz | | | AC 3Φ,380V-415V 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 | 61.4 |
| | Power Input | kW | 2.78 | 3.71 | 4.47 | 4.03 | 4.74 |
| | 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 Pressure 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 | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| 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 | -20°C~15.5°C | -20°C~15.5°C | -20°C~15.5°C | -20°C~15.5°C |

## Hi-Smart H Series


| HP | | | 8HP | 10HP | 12HP | 8HP | 10HP | 12HP |
|---|---|---|---|---|---|---|---|---|
| | Model | | AVW-76HKFH | AVW-96HKFH | AVW-114HKFH | AVW-76HFFH | AVW-96HFFH | AVW-114HFFH |
| | Power Supply | | AC 3Φ,380V-415V 50/60Hz | | | AC 3Φ,208/230V 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 | 114.0 |
| | 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 | 128.0 |
| | 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 | 150.0 | 163.0 |
| Sound | Sound Pressure Level (Cooling/Heating) | dB(A) | 58/60 | 59/61 | 59/61 | 53/55 | 56/58 | 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 | 162 | 168 | 171 |
| | Gross Weight | kg | 179 | 194 | 194 | 185 | 188 | 189 |
| Dimensions | External (HxWxD) | mm | 1650x1100x390 | 1650x1100x390 | 1650x1100x390 | 1650x1100x390 | 1650x1100x390 | 1650x1100x390 |
| | Packing(HxWxD) | mm | 1748x1151x500 | 1748x1151x500 | 1748x1151x500 | 1806x1185x530 | 1806x1185x530 | 1806x1185x530 |
| Cabinet Color | | | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White | Ivory White |
| Ref. Piping | Gas | mm | Φ22.2 | Φ25.4 | Φ25.4 | Φ19.05 | Φ22.2 | Φ25.4 |
| | | inch | 7/8 | 1 | 1 | 3/4 | 7/8 | 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 | 50 | 50 | 50 |
| | | m | 30 | 30 | 30 | 40 | 40 | 40 |
| | Height Difference Between IDUs | m | 15 | 15 | 15 | 15 | 15 | 15 |
| | Max. Piping Length | m | 75 | 75 | 75 | 100 | 100 | 100 |
| 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 |

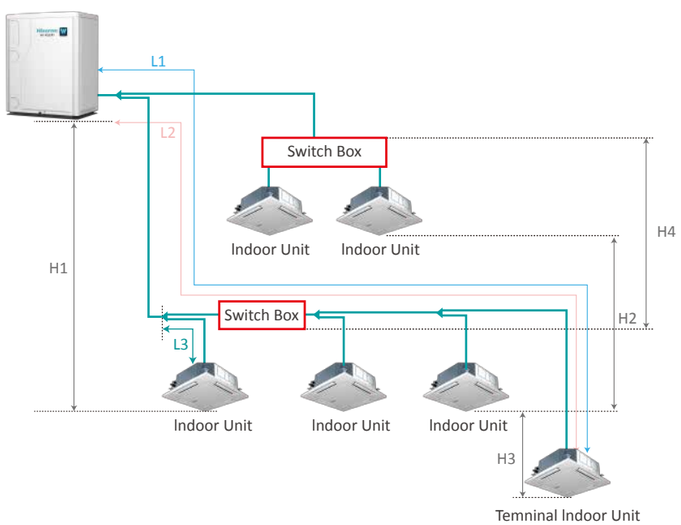
## NOTES:

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.

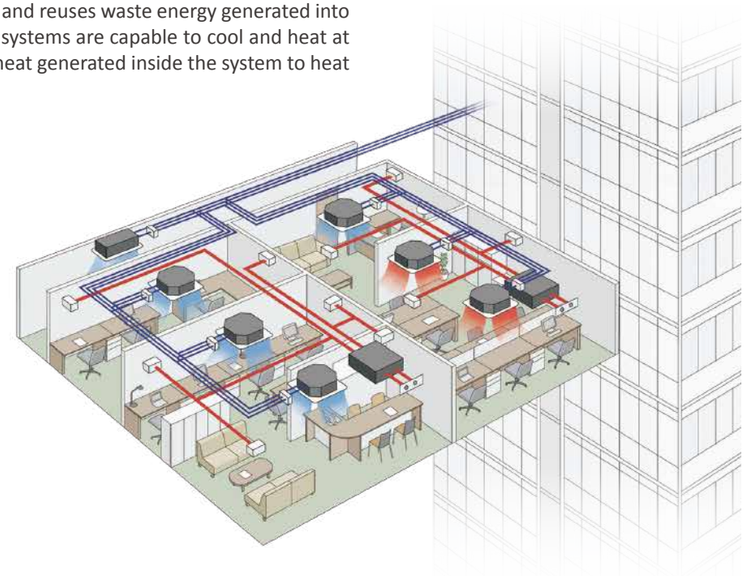

## Piping Length

- Max. equivalent pipe length L1: 190m
- Max. pipe length from first branch to each indoor unit L2: 40m
- Max. pipe length from certain branch to the nearby indoor unit L3: 30m
- Height difference between outdoor unit and indoor unit H1:
  Outdoor unit is higher: 50m
  Outdoor unit is lower: 40m
- Height difference between indoor units H2: 15m
- Height difference between indoor units using the same SW box H3: 4m
- Height difference between SW boxes H4: 5m




## 3 - Stage Heat Recovery

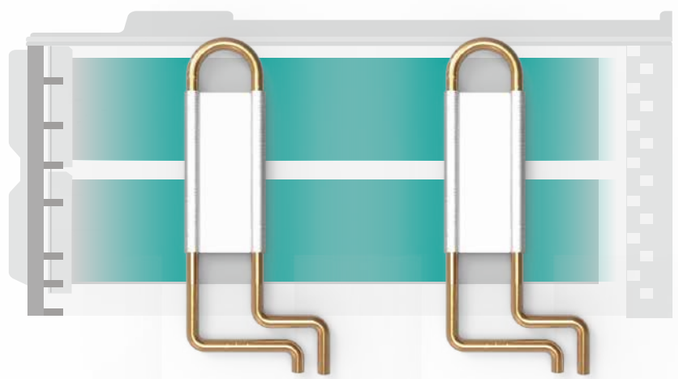
Optimum heat recovery, recycles and reuses waste energy generated into useful energy. Water source VRF systems are capable to cool and heat at the same time by making use of heat generated inside the system to heat other rooms.



Simultaneous Cooling
and Heating From One System

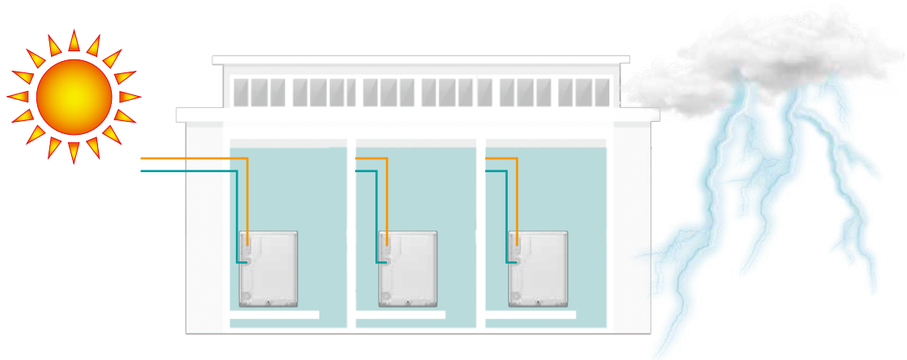
## Patented 360° Fitted Refrigerant Cooling Technology

To maintain the lifespan of the delicate electronics, Hisense VRF uses refrigerant cooling technology. As such, overcoming poor heat dissipation and high ambient temperature issue to maintain efficient operation even at harsh environment.

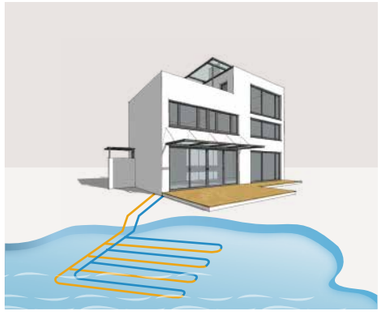


# Weather-safe Installation

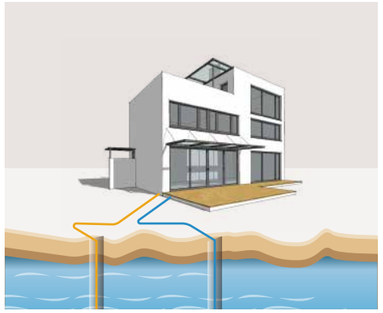
As the name speaks for itself, air-cooled systems exchange heat with air whereas, water-cooled systems exchange heat with water. Hence, water source VRF outdoor unit does not have high ambient air exposure space requirements.
The unit can be installed indoors preventing daily wear and tear from direct weather exposure. It is also a great alternatives to high rise architechtual buildings with exterior aesthetic requirements.
On the other end, the unit installed in underground subways and malls are so much more efficient using water-cooled systems, not to mention maintainance and service routines are then so much convinient.



# Wide Application Area



Adoption of Soil Source



Adoption of Underground Water

Building Water-cycling System

Urban Sewage, Recycled Water.

Adoption of Seawater Source

Adoption of Surface Water

Adoption of Geothermal

## Hi-FLEXi W Series


| HP | | | 8HP | 10HP | 12HP | 14HP |
|---|---|---|---|---|---|---|
| Model | Model | | AVWW-76FKFW | AVWW-96FKFW | AVWW-114FKFW | AVWW-136FKFW |
| | Modules | | — | — | — | — |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | |
| Cooling | Capacity | kW | 22.4 | 28.0 | 33.5 | 40.0 |
| | | kBtu/h | 76.5 | 95.6 | 114.3 | 136.5 |
| | Power Input | kW | 3.85 | 5.04 | 6.32 | 7.84 |
| | EER | kW/kW | 5.82 | 5.55 | 5.30 | 5.10 |
| Heating | Capacity | kW | 25.0 | 31.5 | 37.5 | 45.0 |
| | | kBtu/h | 85.3 | 107.5 | 128.0 | 153.6 |
| | Power Input | kW | 4.08 | 5.25 | 6.45 | 8.03 |
| | COP | kW/kW | 6.12 | 6.00 | 5.81 | 5.60 |
| Sound | Sound Pressure Level Cooling/Heating | dB(A) | 49/51 | 51/53 | 53/54 | 55/57 |
| Water-Side Heat Exchanger | Water Temperature | °C | 10~45 | 10~45 | 10~45 | 10~45 |
| | Rated Water Flow Rate | L/min | 76.7 | 96.0 | 115.0 | 138.3 |
| | Water Pressure Drop | kPa | 30 | 45 | 45 | 60 |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 20 | 20 | 20 | 20 |
| Weight | Net Weight | kg | 166 | 166 | 171 | 171 |
| | Gross Weight | kg | 170 | 170 | 175 | 175 |
| Dimensions | External (H×W×D) | mm | 1030×820×560 | 1030×820×560 | 1030×820×560 | 1030×820×560 |
| | Packing(H×W×D) | mm | 1180×900×632 | 1180×900×632 | 1180×900×632 | 1180×900×632 |
| Ref. Piping | Liquid Pipe | mm | Φ9.53 | Φ9.53 | Φ12.7 | Φ12.7 |
| | | inch | 3/8 | 3/8 | 1/2 | 1/2 |
| | Low Pressure Gas Pipe | mm | Φ19.05 | Φ22.2 | Φ25.4 | Φ25.4 |
| | | inch | 3/4 | 7/8 | 1 | 1 |
| | High/Low Pressure Gas Pipe | mm | Φ15.88 | Φ19.05 | Φ22.2 | Φ22.2 |
| | | inch | 5/8 | 3/4 | 7/8 | 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 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 |
| MAX. Connectable Indoor Units | Recommended | | 12 | 15 | 18 | 21 |
| | MAX. | | 19 | 24 | 29 | 34 |

## Hi-FLEXi W Series


| HP | | | 16HP | 18HP | 20HP |
|---|---|---|---|---|---|
| Model | Model | | AVWW-154FKFW | AVWW-170FKFW | AVWW-190FKFW |
| | Modules | | —— | —— | —— |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | |
| Cooling | Capacity | kW | 45.0 | 50.0 | 56.0 |
| | | kBtu/h | 153.6 | 170.6 | 191.1 |
| | Power Input | kW | 8.11 | 9.43 | 10.98 |
| | EER | kW/kW | 5.55 | 5.30 | 5.10 |
| Heating | Capacity | kW | 50.0 | 56.0 | 63.0 |
| | | kBtu/h | 170.6 | 191.1 | 215.0 |
| | Power Input | kW | 8.33 | 9.62 | 10.86 |
| | COP | kW/kW | 6.00 | 5.82 | 5.80 |
| Sound | Sound Pressure Level Cooling/Heating | dB(A) | 51/52 | 53/53 | 53/55 |
| Water-Side Heat Exchanger | Water Temperature | °C | 10~45 | 10~45 | 10~45 |
| | Rated Water Flow Rate | L/min | 153.3 | 166.7 | 193.3 |
| | Water Pressure Drop | kPa | 40 | 45 | 60 |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 20 | 20 | 20 |
| Weight | Net Weight | kg | 245 | 246 | 246 |
| | Gross Weight | kg | 250 | 251 | 251 |
| Dimensions | External (H×W×D) | mm | 1030×1040×560 | 1030×1040×560 | 1030×1040×560 |
| | Packing(H×W×D) | mm | 1180×1112×632 | 1180×1112×632 | 1180×1112×632 |
| Ref. Piping | Liquid Pipe | mm | Φ12.7 | Φ15.88 | Φ15.88 |
| | | inch | 1/2 | 5/8 | 5/8 |
| | Low Pressure Gas Pipe | mm | Φ28.6 | Φ28.6 | Φ28.6 |
| | | inch | 1-1/8 | 1-1/8 | 1-1/8 |
| | High/Low Pressure Gas Pipe | mm | Φ22.2 | Φ22.2 | Φ22.2 |
| | | inch | 7/8 | 7/8 | 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 | Outer Diameter 18 | Outer Diameter 18 |
| MAX. Connectable Indoor Units | Recommended | | 23 | 26 | 29 |
| | MAX. | | 39 | 43 | 48 |

## Hi-FLEXi W Series


| HP | | | 22HP | 24HP | 26HP | 28HP | 30HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWW-210FKFW | AVWW-228FKFW | AVWW-250FKFW | AVWW-268FKFW | AVWW-286FKFW |
| | Modules | | AVWW-96FKFW<br>AVWW-114FKFW | AVWW-114FKFW<br>AVWW-114FKFW | AVWW-114FKFW<br>AVWW-136FKFW | AVWW-114FKFW<br>AVWW-154FKFW | AVWW-96FKFW<br>AVWW-190FKFW |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 61.5 | 67.0 | 73.5 | 78.5 | 84.0 |
| | | kBtu/h | 209.9 | 228.6 | 250.8 | 267.9 | 286.7 |
| | Power Input | kW | 11.4 | 12.6 | 14.2 | 14.4 | 16.0 |
| | EER | kW/kW | 5.41 | 5.30 | 5.19 | 5.44 | 5.24 |
| Heating | Capacity | kW | 69.0 | 75.0 | 82.5 | 87.5 | 94.5 |
| | | kBtu/h | 235.4 | 255.9 | 281.6 | 298.6 | 322.4 |
| | Power Input | kW | 11.7 | 12.9 | 14.5 | 14.8 | 16.1 |
| | COP | kW/kW | 5.90 | 5.81 | 5.70 | 5.92 | 5.87 |
| Sound | Sound Pressure Level Cooling/Heating | dB(A) | 56/57 | 56/57 | 58/60 | 56/57 | 56/58 |
| Water-Side Heat Exchanger | Water Temperature | °C | 10~45 | 10~45 | 10~45 | 10~45 | 10~45 |
| | Rated Water Flow Rate | L/min | 211.0 | 230.0 | 253.3 | 268.3 | 289.3 |
| | Water Pressure Drop | kPa | / | / | / | / | / |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 20 | 20 | 20 | 20 | 20 |
| Weight | Net Weight | kg | 337 | 342 | 342 | 416 | 412 |
| | Gross Weight | kg | 345 | 350 | 350 | 425 | 421 |
| Dimensions | External (H×W×D) | mm | 1030×<br>(820+820)<br>×560 | 1030×<br>(820+820)<br>×560 | 1030×<br>(820+820)<br>×560 | 1030×<br>(820+1040)<br>×560 | 1030×<br>(820+1040)<br>×560 |
| | Packing(H×W×D) | mm | 1180×<br>(900+900)<br>×632 | 1180×<br>(900+900)<br>×632 | 1180×<br>(900+900)<br>×632 | 1180×<br>(900+1112)<br>×632 | 1180×<br>(900+1112)<br>×632 |
| Ref. Piping | Liquid Pipe | mm | Φ15.88 | Φ15.88 | Φ19.05 | Φ19.05 | Φ19.05 |
| | | inch | 5/8 | 5/8 | 3/4 | 3/4 | 3/4 |
| | Low Pressure Gas Pipe | mm | Φ28.6 | Φ28.6 | Φ31.75 | Φ31.75 | Φ31.75 |
| | | inch | 1-1/8 | 1-1/8 | 1-1/4 | 1-1/4 | 1-1/4 |
| | High/Low Pressure Gas Pipe | mm | Φ25.4 | Φ25.4 | Φ25.4 | Φ28.6 | Φ28.6 |
| | | inch | 1 | 1 | 1 | 1-1/8 | 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 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 |
| MAX. Connectable Indoor Units | Recommended | | 33 | 36 | 39 | 40 | 40 |
| | MAX. | | 53 | 58 | 63 | 64 | 64 |

## Hi-FLEXi W Series


| HP | | | 32HP | 34HP | 36HP | 38HP | 40HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWW-304FKFW | AVWW-326FKFW | AVWW-344FKFW | AVWW-360FKFW | AVWW-380FKFW |
| | Modules | | AVWW-114FKFW<br>AVWW-190FKFW | AVWW-136FKFW<br>AVWW-190FKFW | AVWW-154FKFW<br>AVWW-190FKFW | AVWW-170FKFW<br>AVWW-190FKFW | AVWW-190FKFW<br>AVWW-190FKFW |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 89.5 | 96.0 | 101.0 | 106.0 | 112.0 |
| | | kBtu/h | 305.4 | 327.6 | 344.7 | 361.7 | 382.1 |
| | Power Input | kW | 17.3 | 18.8 | 19.1 | 20.4 | 22.0 |
| | EER | kW/kW | 5.17 | 5.10 | 5.29 | 5.19 | 5.10 |
| Heating | Capacity | kW | 100.5 | 108.0 | 113.0 | 119.0 | 126.0 |
| | | kBtu/h | 342.9 | 368.6 | 385.6 | 406.0 | 429.9 |
| | Power Input | kW | 17.3 | 18.9 | 19.2 | 20.5 | 21.7 |
| | COP | kW/kW | 5.81 | 5.72 | 5.89 | 5.81 | 5.80 |
| Sound | Sound Pressure Level Cooling/Heating | dB(A) | 56/58 | 58/60 | 56/58 | 56/58 | 56/58 |
| Water-Side Heat Exchanger | Water Temperature | °C | 10~45 | 10~45 | 10~45 | 10~45 | 10~45 |
| | Rated Water Flow Rate | L/min | 308.3 | 331.7 | 346.7 | 360.0 | 386.7 |
| | Water Pressure Drop | kPa | / | / | / | / | / |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 20 | 20 | 20 | 20 | 20 |
| Weight | Net Weight | kg | 417 | 417 | 491 | 492 | 492 |
| | Gross Weight | kg | 426 | 426 | 501 | 502 | 502 |
| Dimensions | External (H×W×D) | mm | 1030×<br>(820+1040)<br>×560 | 1030×<br>(820+1040)<br>×560 | 1030×<br>(1040+1040)<br>×560 | 1030×<br>(1040+1040)<br>×560 | 1030×<br>(1040+1040)<br>×560 |
| | Packing(H×W×D) | mm | 1180×<br>(900+1112)<br>×632 | 1180×<br>(900+1112)<br>×632 | 1180×<br>(1112+1112)<br>×632 | 1180×<br>(1112+1112)<br>×632 | 1180×<br>(1112+1112)<br>×632 |
| Ref. Piping | Liquid Pipe | mm | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 |
| | | inch | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| | Low Pressure Gas Pipe | mm | Φ31.75 | Φ31.75 | Φ31.75 | Φ38.1 | Φ38.1 |
| | | inch | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/2 | 1-1/2 |
| | High/Low Pressure Gas Pipe | mm | Φ28.6 | Φ28.6 | Φ28.6 | Φ31.75 | Φ31.75 |
| | | inch | 1-1/8 | 1-1/8 | 1-1/8 | 1-1/4 | 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 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 |
| MAX. Connectable Indoor Units | Recommended | | 40 | 40 | 40 | 40 | 40 |
| | MAX. | | 64 | 64 | 64 | 64 | 64 |

## Hi-FLEXi W Series


| HP | | | 42HP | 44HP | 46HP | 48HP | 50HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWW-400FKFW | AVWW-418FKFW | AVWW-440FKFW | AVWW-456FKFW | AVWW-476FKFW |
| | Modules | | AVWW-96FKFW<br>AVWW-114FKFW<br>AVWW-190FKFW | AVWW-114FKFW<br>AVWW-114FKFW<br>AVWW-190FKFW | AVWW-96FKFW<br>AVWW-154FKFW<br>AVWW-190FKFW | AVWW-96FKFW<br>AVWW-170FKFW<br>AVWW-190FKFW | AVWW-96FKFW<br>AVWW-190FKFW<br>AVWW-190FKFW |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 117.5 | 123.0 | 129.0 | 134.0 | 140.0 |
| | | kBtu/h | 401.0 | 419.7 | 440.3 | 457.3 | 477.7 |
| | Power Input | kW | 22.3 | 23.6 | 24.1 | 25.5 | 27.0 |
| | EER | kW/kW | 5.26 | 5.21 | 5.35 | 5.27 | 5.19 |
| Heating | Capacity | kW | 132.0 | 138.0 | 144.5 | 150.5 | 157.5 |
| | | kBtu/h | 450.4 | 470.9 | 493.0 | 513.5 | 537.4 |
| | Power Input | kW | 22.6 | 23.8 | 24.4 | 25.7 | 27.0 |
| | COP | kW/kW | 5.85 | 5.81 | 5.91 | 5.85 | 5.84 |
| Sound | Sound Pressure Level Cooling/Heating | dB(A) | 58/60 | 58/60 | 58/60 | 58/60 | 58/60 |
| Water-Side Heat Exchanger | Water Temperature | °C | 10~45 | 10~45 | 10~45 | 10~45 | 10~45 |
| | Rated Water Flow Rate | L/min | 404.3 | 423.3 | 442.7 | 456.0 | 482.7 |
| | Water Pressure Drop | kPa | / | / | / | / | / |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 20 | 20 | 20 | 20 | 20 |
| Weight | Net Weight | kg | 583 | 588 | 657 | 658 | 658 |
| | Gross Weight | kg | 596 | 601 | 671 | 672 | 672 |
| Dimensions | External (H×W×D) | mm | 1030×<br>(820+820+1040)<br>×560 | 1030×<br>(820+820+1040)<br>×560 | 1030×<br>(820+1040+1040)<br>×560 | 1030×<br>(820+1040+1040)<br>×560 | 1030×<br>(820+1040+1040)<br>×560 |
| | Packing(H×W×D) | mm | 1180×<br>(900+900+1112)<br>×632 | 1180×<br>(900+900+1112)<br>×632 | 1180×<br>(900+1112+1112)<br>×632 | 1180×<br>(900+1112+1112)<br>×632 | 1180×<br>(900+1112+1112)<br>×632 |
| Ref. Piping | Liquid Pipe | mm | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 | Φ19.05 |
| | | inch | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| | Low Pressure Gas Pipe | mm | Φ38.1 | Φ38.1 | Φ38.1 | Φ38.1 | Φ38.1 |
| | | inch | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 |
| | High/Low Pressure Gas Pipe | mm | Φ31.75 | Φ31.75 | Φ31.75 | Φ31.75 | Φ31.75 |
| | | inch | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 | 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 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 |
| MAX. Connectable Indoor Units | Recommended | | 40 | 40 | 40 | 40 | 40 |
| | MAX. | | 64 | 64 | 64 | 64 | 64 |

## Hi-FLEXi W Series


| HP | | | 52HP | 54HP | 56HP | 58HP | 60HP |
|---|---|---|---|---|---|---|---|
| Model | Model | | AVWW-494FKFW | AVWW-516FKFW | AVWW-534FKFW | AVWW-550FKFW | AVWW-570FKFW |
| | Modules | | AVWW-114FKFW<br>AVWW-190FKFW<br>AVWW-190FKFW | AVWW-136FKFW<br>AVWW-190FKFW<br>AVWW-190FKFW | AVWW-154FKFW<br>AVWW-190FKFW<br>AVWW-190FKFW | AVWW-170FKFW<br>AVWW-190FKFW<br>AVWW-190FKFW | AVWW-190FKFW<br>AVWW-190FKFW<br>AVWW-190FKFW |
| | Power Supply | | AC 3Φ,380-415V/50/60Hz | | | | |
| Cooling | Capacity | kW | 145.5 | 152.0 | 157.0 | 162.0 | 168.0 |
| | | kBtu/h | 496.4 | 518.6 | 535.7 | 552.7 | 573.2 |
| | Power Input | kW | 28.3 | 29.8 | 30.1 | 31.4 | 32.9 |
| | EER | kW/kW | 5.14 | 5.10 | 5.22 | 5.16 | 5.10 |
| Heating | Capacity | kW | 163.5 | 171.0 | 176.0 | 182.0 | 189.0 |
| | | kBtu/h | 557.9 | 583.5 | 600.5 | 621.0 | 644.9 |
| | Power Input | kW | 28.2 | 29.8 | 30.1 | 31.3 | 32.6 |
| | COP | kW/kW | 5.80 | 5.75 | 5.86 | 5.81 | 5.80 |
| Sound | Sound Pressure Level Cooling/Heating | dB(A) | 58/60 | 60/62 | 58/60 | 58/60 | 58/60 |
| Water-Side Heat Exchanger | Water Temperature | °C | 10~45 | 10~45 | 10~45 | 10~45 | 10~45 |
| | Rated Water Flow Rate | L/min | 501.7 | 525.0 | 540.0 | 553.3 | 580.0 |
| | Water Pressure Drop | kPa | / | / | / | / | / |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 20 | 20 | 20 | 20 | 20 |
| Weight | Net Weight | kg | 663 | 663 | 737 | 738 | 738 |
| | Gross Weight | kg | 677 | 677 | 752 | 753 | 753 |
| Dimensions | External (H×W×D) | mm | 1030×<br>(820+1040+1040)<br>×560 | 1030×<br>(820+1040+1040)<br>×560 | 1030×<br>(1040+1040+1040)<br>×560 | 1030×<br>(1040+1040+1040)<br>×560 | 1030×<br>(1040+1040+1040)<br>×560 |
| | Packing(H×W×D) | mm | 1180×<br>(900+1112+1112)<br>×632 | 1180×<br>(900+1112+1112)<br>×632 | 1180×<br>(1112+1112+1112)<br>×632 | 1180×<br>(1112+1112+1112)<br>×632 | 1180×<br>(1112+1112+1112)<br>×632 |
| Ref. Piping | Liquid Pipe | mm | Φ19.05 | Φ19.05 | Φ22.2 | Φ22.2 | Φ22.2 |
| | | inch | 3/4 | 3/4 | 7/8 | 7/8 | 7/8 |
| | Low Pressure Gas Pipe | mm | Φ38.1 | Φ38.1 | Φ38.1 | Φ38.1 | Φ38.1 |
| | | inch | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 |
| | High/Low Pressure Gas Pipe | mm | Φ31.75 | Φ31.75 | Φ38.1 | Φ38.1 | Φ38.1 |
| | | inch | 1-1/4 | 1-1/4 | 1-1/2 | 1-1/2 | 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 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 | Outer Diameter 18 |
| MAX. Connectable Indoor Units | Recommended | | 40 | 40 | 40 | 40 | 40 |
| | MAX. | | 64 | 64 | 64 | 64 | 64 |

## NOTES:

1. Operation Condition:
   Cooling:Indoor Temperature 27°C DB/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.

Hisense VRF

# INDOOR UNIT

- 4-Way Cassette Type / Mini 4-Way Cassette Type
- 1-Way Cassette Type
- 2-Way Cassette Type
- Console Type
- Ceiling Ducted Type(AC/DC Low-height)
- Ceiling Ducted Type(High/Low Static Pressure)
- Wall Mounted Type
- Ceiling & Floor Type
- Floor Concealed Type
- All Fresh Air Indoor Unit
- Heat Recovery Ventilator
- AHU Connection KIT

AIR CONDITIONING SOLUTION

## Indoor Unit Range

| 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 |  | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| Ceiling Ducted Type (AC Low-height) |  | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| Ceiling Ducted Type (DC Low-height) |  | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| Ceiling Ducted Type (High Static Pressure) |  | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Ceiling Ducted Type (Low Static Pressure) |  | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Wall Mounted Type |  | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| Ceiling & Floor Type |  | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| Floor Concealed Type |  | | | ● | | ● | | ● | | ● | | | | | | | |

Note: More specific capacity information, please see the introduction for each modules.

# Functions & Accessories

## Installation & Maintenance

**1200m condensate pump**

Drain Pumps help to discharge condensate water from the indoor unit smoothly.

**Self-Diagnosis**

The self-diagnosis function in indoor units smartly determines and analyses problems occurred providing with troubleshooting hints. It is displayable and could be tracked on controller, outdoor and indoor unit itself.

**Compact size**

Compact size on indoor units offer greater installation flexibility especially in restricted space.

**Easy cleaning**

Clean effortlessly by dragging cloths across smooth flat surfaces on indoor units and prevents heavy dust accumulation.

**Large capacity range**

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

## Basic Function

**Remote control**

Control indoor units remotely using the blind spotless LCD display wireless controller

**Silent operation**

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

**Adjustable louver's position**

Louver's position of indoor units can be adjusted in different levels and 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.

## Special Function

**Auto restart**

Indoor units with Auto Restart Function ,automatically restarts in default mode or restoring to the previous mode after any involuntary power cut off.

**Low temperature cooling**

Setting temperature of indoor units is widen with selectable temperature to 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 is an human presence sensor optional accessory which enables auto airflow direction, auto ON/OFF, auto fan and setting based on human presence.

## Air Quality

**Fresh air introduction**

Indoor units that are compatible to introduce fresh air into rooms with either an optional adapter or direct connection to the air return segment of the unit.

**Standard filter included**

Washable long life synthetic fibre return air filters are included with the unit.

**Optional filter**

Washable long life synthetic fibre air filters does not come with indoor unit but an optional accessory.

**AirPure (optional)**

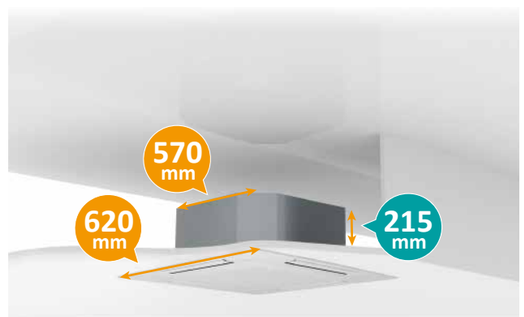
Achieving air purification by equipping with AirPure kit.

# 4-Way Cassette Type
# Mini 4-Way Cassette Type

## Compact and Classy Design

The 4 way cassette is now as slim as 238mm and 215mm for mini 4-way cassettes , fit for narrow ceiling spaces. Boring straight return air grille patterns are replaced with exquisite hexagon pattern design, upgrading taste and classiness of any interior aesthetic.

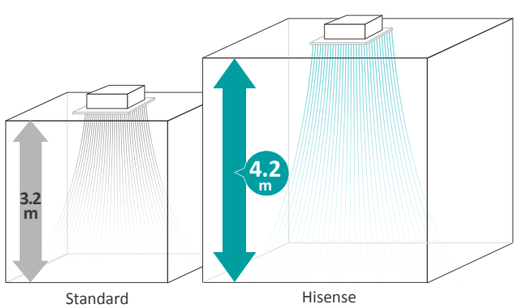

4-Way Cassette Type




Mini 4-way Cassette Type

## Higher Installation

Air from the cassette still manages to flow down from ceiling heights as high as 4.2m. Not to mention human presence and density detection by motion sensor at such height.

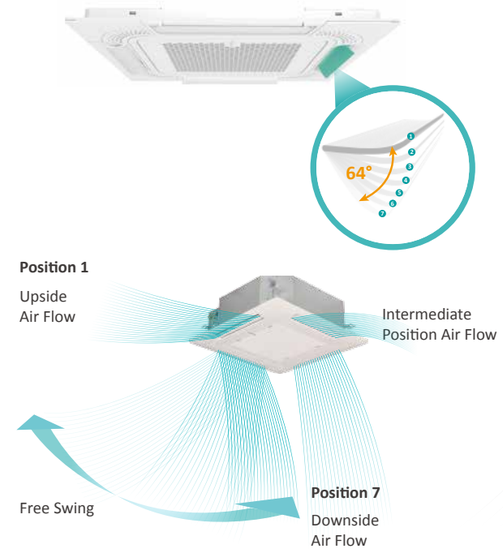



## Branch Discharge Option

In irregular room layouts, branch discharge could come in handy by extending air distribution area to the most awkward corners without additional indoor units.

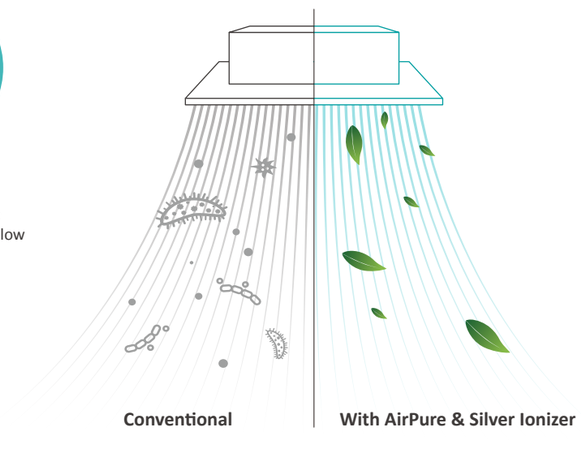
## Individual Louvers Control

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 7 angle settings and maximum angle reach at 64°.



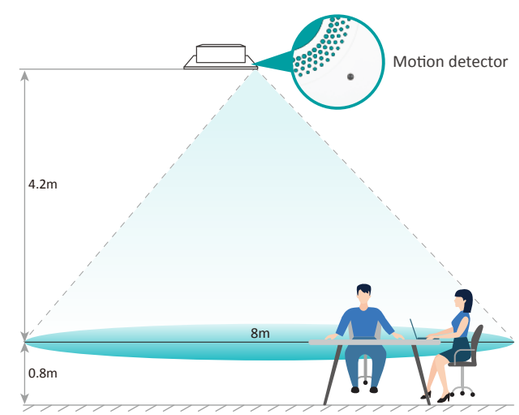

## AirPure and Silver Ionizer

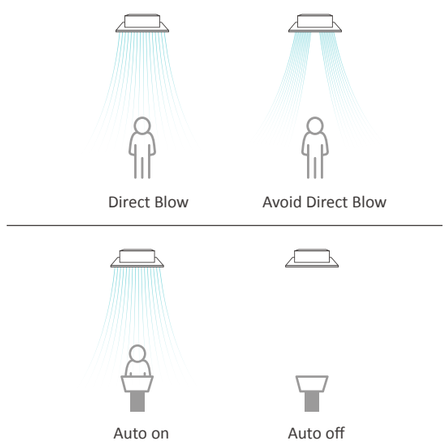
AirPure is a healthy alternative accessory to the normal conventional cassette unit to improve overall air quality. Airpure helps in improving skin condition, effective deodorizer and deactivating bacterias, virus and allergens floating in the air.
Silver ion accessory is also available to maintain the hygiene level of the drain pan preventing bacteria being transmitted out.




## Motion Sensor

The sensor senses the presence of people to automatically turn the cassette unit on or off and whether to direct airflow towards or avoiding humans depend settings set on the controller. During crowded times, the setting temperature is automatically lowered down and vise versa. Meeting comfort and using energy only when necessary.



## 4-Way Cassette Type

| Model | | | | AVBC-09 HJFKA | AVBC-12 HJFKA | AVBC-15 HJFKA | AVBC-19 HJFKA | AVBC-22 HJFKA | AVBC-24 HJFKA | AVBC-27 HJFKA | AVBC-30 HJFKA | AVBC-38 HJFKA | AVBC-48 HJFKA | AVBC-54 HJFKA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power Supply | | | | AC 1Φ,220~240V/50Hz(60Hz) | | | | | | | | | | |
| Capacity | Cooling | | kW | 2.8 | 3.6 | 4.5 | 5.6 | 6.3 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 |
| | | | Btu/h | 9,600 | 12,300 | 15,400 | 19,100 | 21,500 | 24,200 | 27,300 | 30,700 | 38,200 | 47,800 | 54,600 |
| | Heating | | kW | 3.2 | 4.0 | 5.0 | 6.3 | 7.1 | 8.0 | 9.0 | 10.0 | 12.5 | 16.0 | 18.0 |
| | | | Btu/h | 9,900 | 13,600 | 17,100 | 21,500 | 24,200 | 27,300 | 30,700 | 34,100 | 42,700 | 54,600 | 61,400 |
| Power Input | Cooling | | W | 14 | 24 | 24 | 34 | 54 | 64 | 54 | 54 | 124 | 124 | 124 |
| | Heating | | W | 14 | 24 | 24 | 34 | 54 | 64 | 54 | 54 | 124 | 124 | 124 |
| Sound Pressure | | | dB(A) | 30/28/28/ 27/26/26 | 32/29/29/ 28/27/26 | 33/31/29/ 29/27/26 | 34/31/30/ 28/28/26 | 36/33/32/ 31/29/28 | 36/33/32/ 31/29/28 | 37/36/35/ 33/31/30 | 37/36/35/ 33/31/30 | 42/40/38/ 36/34/33 | 46/44/40/ 38/36/34 | 46/44/41/ 40/38/36 |
| Airflow Rate | | | m³/min | 14.6/13.4/ 12.0/10.8/ 10.0/8.8 | 16.5/14.0/ 12.8/11.8/ 10.8/9.1 | 20.2/16.0/ 14.9/13.6/ 12.7/11.2 | 22.0/17.5/ 15.9/15.5/ 13.6/12.5 | 25.5/20.0/ 18.3/17.0/ 15.1/13.0 | 26.7/21.0/ 19.1/18.0/ 16.3/14.7 | 26.2/22.0/ 20.3/18.7/ 16.8/15.4 | 26.2/23.0/ 20.7/19.6/ 17.7/16.1 | 36.0/30.0/ 27.4/24.8/ 22.4/19.6 | 36.1/33.5/ 29.6/27.2/ 24.5/22.4 | 36.1/34.0/ 30.7/28.9/ 25.6/23.8 |
| Piping | Connection Type | | - | Flare-nut Connection(with Flare Nuts) | | | | | | | | | | |
| | 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 | Φ12.7 | Φ15.88 | Φ15.88 | Φ15.88 | Φ15.88 | Φ15.88 | Φ15.88 |
| | | | inch | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| | Condensate Drain | | mm | O.D.32 | | | | | | | | | | |
| Weight | Net Weight | | kg | 20 | 20 | 21 | 21 | 23 | 23 | 26 | 26 | 26 | 26 | 26 |
| | Gross Weight | | kg | 24 | 24 | 25 | 25 | 27 | 27 | 31 | 31 | 31 | 31 | 31 |
| Dimensions | External | H | mm | 238 | 238 | 238 | 238 | 238 | 238 | 288 | 288 | 288 | 288 | 288 |
| | | W | mm | 840 | 840 | 840 | 840 | 840 | 840 | 840 | 840 | 840 | 840 | 840 |
| | | D | mm | 840 | 840 | 840 | 840 | 840 | 840 | 840 | 840 | 840 | 840 | 840 |
| | Packaging | H | mm | 292 | 292 | 292 | 292 | 292 | 292 | 342 | 342 | 342 | 342 | 342 |
| | | W | mm | 945 | 945 | 945 | 945 | 945 | 945 | 945 | 945 | 945 | 945 | 945 |
| | | D | mm | 945 | 945 | 945 | 945 | 945 | 945 | 945 | 945 | 945 | 945 | 945 |
| Decoration Panel | Model | | - | HP-G-NK | HP-G-NK | HP-G-NK | HP-G-NK | HP-G-NK | HP-G-NK | HP-G-NK | HP-G-NK | HP-G-NK | HP-G-NK | HP-G-NK |
| | Panel Colour | | - | Neutral White | | | | | | | | | | |
| | Body Dimensions | H | mm | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| | | W | mm | 950 | 950 | 950 | 950 | 950 | 950 | 950 | 950 | 950 | 950 | 950 |
| | | D | mm | 950 | 950 | 950 | 950 | 950 | 950 | 950 | 950 | 950 | 950 | 950 |
| | Packaging Dimensions | H | mm | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 |
| | | W | mm | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 |
| | | D | mm | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 | 1014 |
| | Net Weight | | kg | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | Gross Weight | | kg | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

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 mesaured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

## Mini 4-Way 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 | 14 | 14 | 14 | 16 | 22 | 30 | 40 |
| | Heating | | W | 14 | 14 | 14 | 16 | 22 | 30 | 40 |
| 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 |
| | Packaging | H | mm | 292 | 292 | 292 | 292 | 292 | 292 | 292 |
| | | W | mm | 668 | 668 | 668 | 668 | 668 | 668 | 668 |
| | | D | mm | 730 | 730 | 730 | 730 | 730 | 730 | 730 |
| Decoration Panel | Model | | - | 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 | | | | | | |
| | 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 |
| | Packaging Dimensions | H | mm | 115 | 115 | 115 | 115 | 115 | 115 | 115 |
| | | W | mm | 680 | 680 | 680 | 680 | 680 | 680 | 680 |
| | | D | mm | 690 | 690 | 690 | 690 | 690 | 690 | 690 |
| | 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 mesaured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

# 1-Way Cassette Type

## Chic Aesthetics

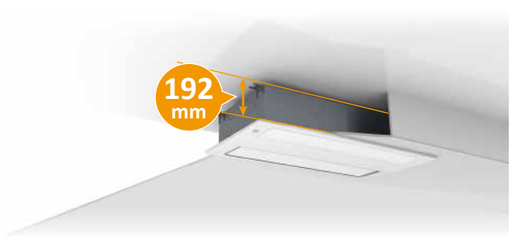
Inspired from ceiling concealed ducted units and integrated with the design of cassette units to present 1 way cassette. High class appearance blends into common white plaster ceilings and practical solution for cornered floor layouts, hotel rooms and residential applications.

## 3D Air Supply

Louvers are consist of horizontal and vertical flaps to supply air evenly to the edges of any rooms. Wider opening angle from 17° to 65° supplies air further and lower down to floor needed during heating modes.


## Space Saving

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




## Maintain never been easier

The electricity box of the cassette is designed and placed beneath the panel. Service, maintenance and commissioning have never made simpler without crawling into service manholes for simple adjustments on the PCB board.


| 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 | I.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 |
| | Packaging | H | mm | 268 | 268 | 268 | 268 | 268 | 268 |
| | | W | mm | 1136 | 1136 | 1136 | 1136 | 1406 | 1406 |
| | | D | mm | 574 | 574 | 574 | 574 | 574 | 574 |
| 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 |
| | Packaging Dimensions | H | mm | 130 | 130 | 130 | 130 | 130 | 130 |
| | | W | mm | 1160 | 1160 | 1160 | 1160 | 1430 | 1430 |
| | | D | mm | 610 | 610 | 610 | 610 | 610 | 610 |
| | Net Weight | | kg | 5 | 5 | 5 | 5 | 6 | 6 |
| | Gross Weight | | kg | 8 | 8 | 8 | 8 | 10 | 10 |

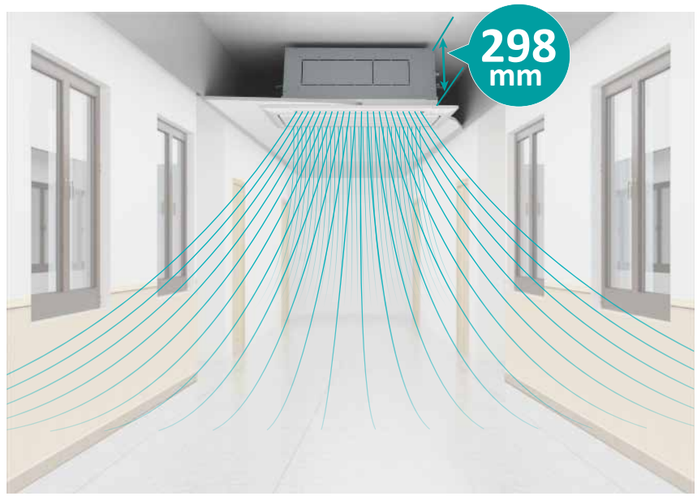
NOTES:

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

# 2-Way Cassette Type

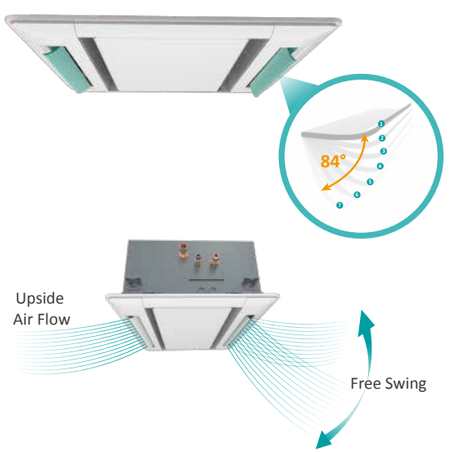
## Compact and Classy Design

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.



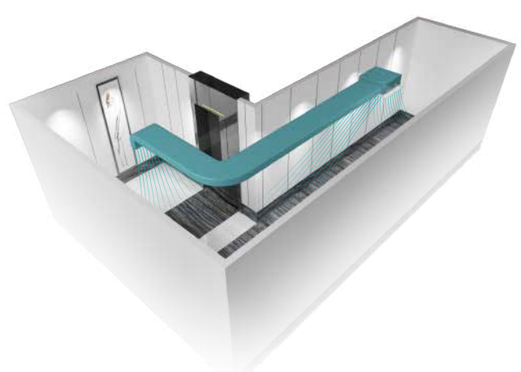

## Independent Louvers Control

Each louver's opening angles are controllable individually with a total of 7 choices, with opening angle from 27° to 84° to cover high ceiling narrow long corridors needs and effective warm air supply during winter seasons.




## Branch Discharge Option

In irregular room layouts, branch discharge could come in handy by extending air distribution area to the most awkward corners without additional indoor units.




| 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 |
| Piping | Connection Type | | - | Flare-nut Connection(with Flare Nuts) | | | | | | | | | | |
| | 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 | I.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 |
| | Packaging | H | mm | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 |
| | | W | mm | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1630 | 1630 | 1630 |
| | | D | mm | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 |
| 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 |
| | Packaging Dimensions | H | mm | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 |
| | | W | mm | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1710 | 1710 | 1710 |
| | | D | mm | 740 | 740 | 740 | 740 | 740 | 740 | 740 | 740 | 740 | 740 | 740 |
| | 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 |

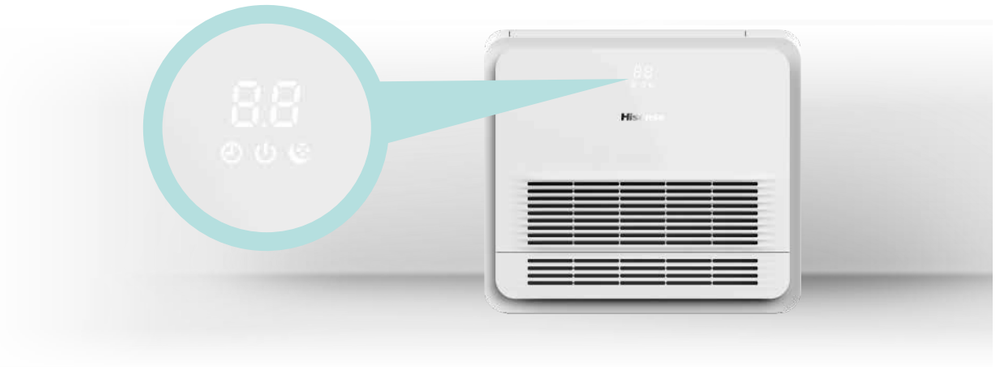
NOTES:

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

# Console Type

## Stylish Aesthetics

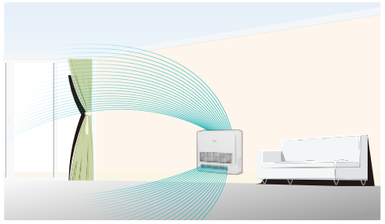
Smooth white matte cover with LED power and temperature display console unit is an upgraded stylish air-conitioning option to the ordinaries. Suitable for any residential or commercial applications needed an AC unit near the floor for effective heating during the winter and cooling during summer.

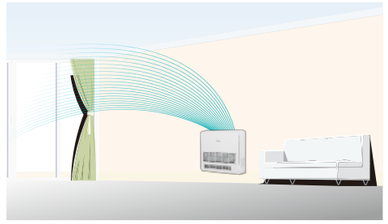


## Assorted Modes

### Cooling Mode

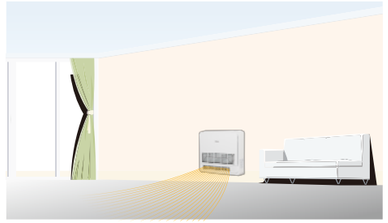
The unit adopts the stereo cooling mode that can reach the setting temperature rapidly.





### Heating Mode

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



# Flexible Installation Options

Despite of the suitability of floor installment for console units, it is still available for wall mounting too. For a sleek look, the unit could also be installed semi-concealed or totally concealed to be used as concealed floor units.

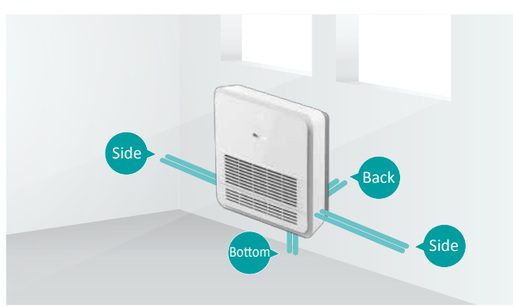
**Standing on the floor**

**Hanging on the wall**

**Direct mounted** **Semi-concealed into wall** **Completely concealed**

# Flexible Piping Connection

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

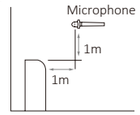



## Console Type

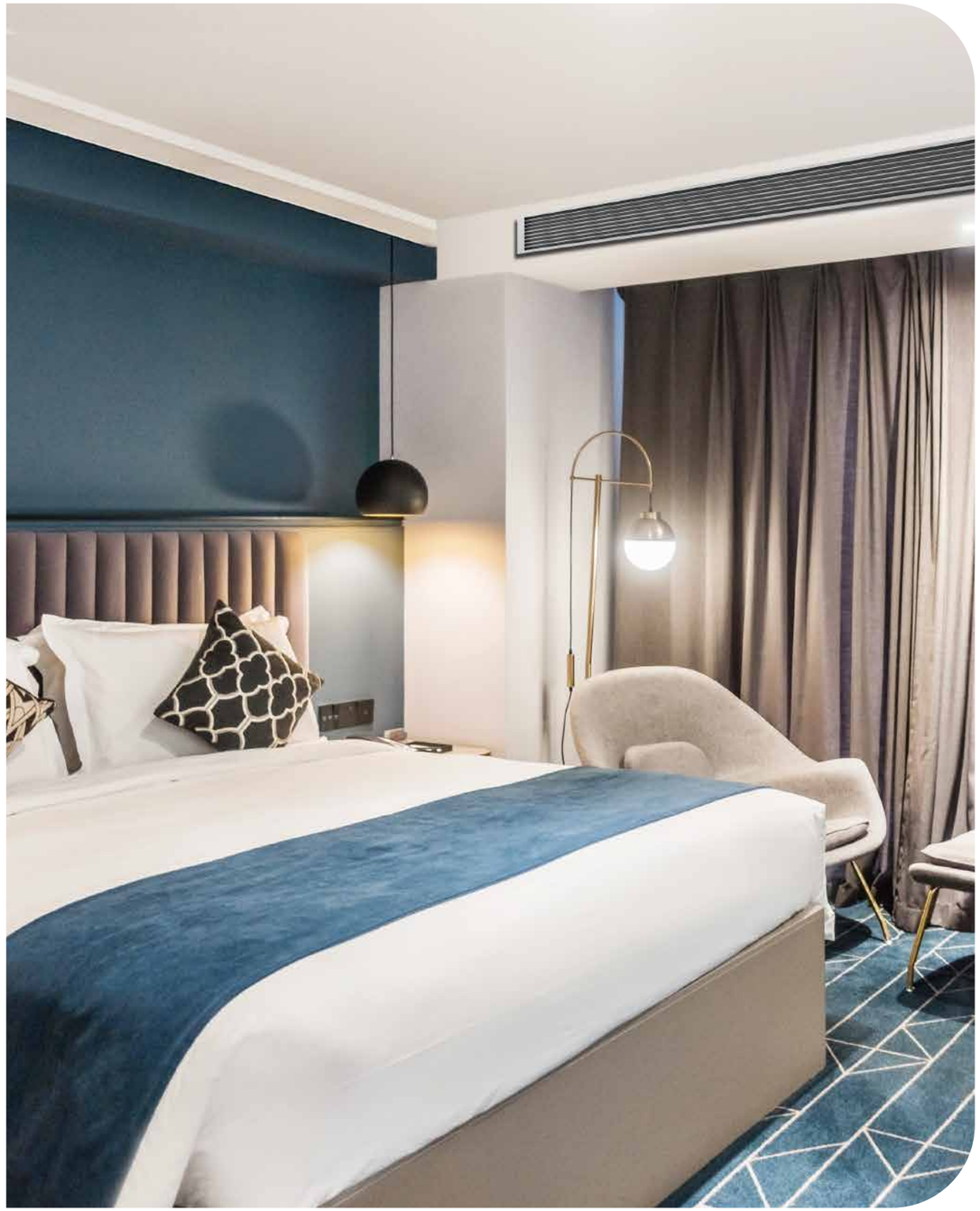

| Model | | | | AVK-05HJFCAA | AVK-07HJFCAA | AVK-09HJFCAA | AVK-12HJFCAA | AVK-15HJFCAA | AVK-17HJFCAA |
|---|---|---|---|---|---|---|---|---|---|
| Power Supply | | | | AC 1Φ,220V~240V/50Hz/60Hz | | | | | |
| Capacity | Cooling | | kW | 1.5 | 2.2 | 2.8 | 3.6 | 4.5 | 5.0 |
| | | | Btu/h | 5,100 | 7,500 | 9,600 | 12,300 | 15,300 | 17,000 |
| | 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/ 5.1/4.7/4.5 | 7.4/7.0/6.4/ 6.0/5.6/5.3 | 8.0/7.4/7.0/ 6.4/6.0/5.6 | 8.2/7.6/6.8/ 6.2/5.7/5.3 | 9.0/8.5/7.8/ 7.2/6.6/6.4 | 10.1/9.7/9.0/ 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.18 | | | | | |
| Weight | Net Weight | | kg | 16.1 | 16.1 | 16.1 | 17.4 | 17.4 | 17.4 |
| | Gross Weight | | kg | 20.6 | 21.1 | 21.1 | 21.5 | 21.5 | 21.5 |
| Dimensions | External | H | mm | 630 | 630 | 630 | 630 | 630 | 630 |
| | | W | mm | 700 | 700 | 700 | 700 | 700 | 700 |
| | | D | mm | 225 | 225 | 225 | 225 | 225 | 225 |
| | Packaging | H | mm | 725 | 725 | 725 | 725 | 725 | 725 |
| | | W | mm | 790 | 790 | 790 | 790 | 790 | 790 |
| | | D | mm | 315 | 315 | 315 | 315 | 315 | 315 |

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 following conditions:
   It is measured in anechoic room. Operation noise differs with operation and ambient conditions.
   Location of Microphone:



# Ceiling Ducted Type
# (AC/DC Low Height, High/Low Static Pressure)

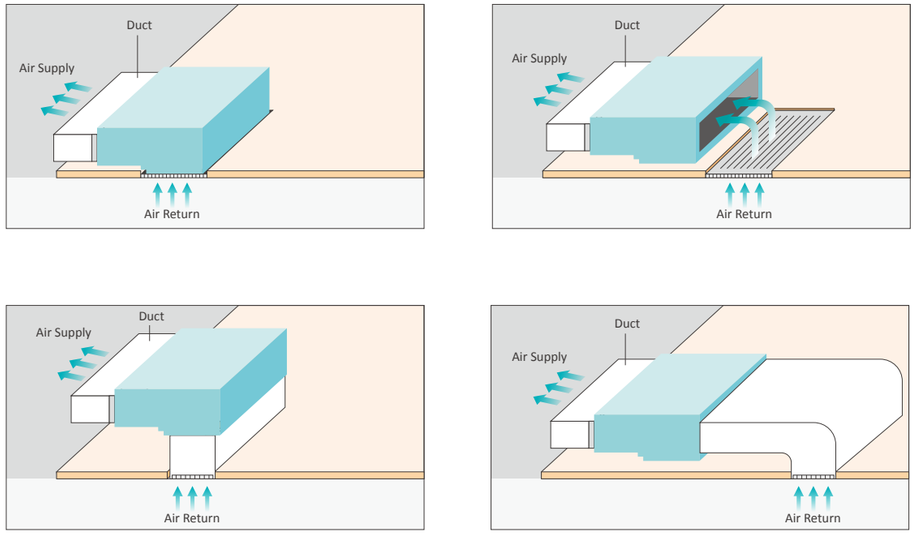


## Space Saving

Concealed AC/DC Low Height Ducted unit is as slim as 192mm, fitting into the narrowest ceiling spaces. Save ceiling spaces for higher room height without compromising user's comfort and satisfaction.

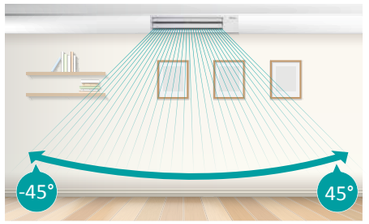

## Flexible Air Supply and Return

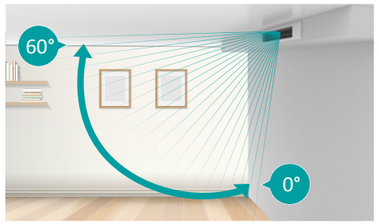
Available air return as rear or bottom entry, consumers can choose relevant air return mode according to the practical installation space.

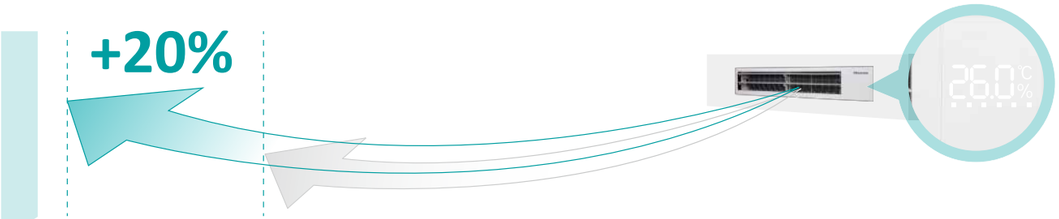


## 3D Air Flow

Classy air discharge louver panel with LED temperature and humidity display is available as an optional accessory for the AC/DC Low Height Ducted Units. The 3D louvers on the panel 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

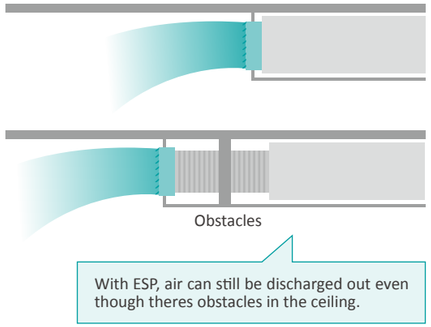
To prevent the human height area of the room cools or warms to user's ideal temperature setting. Two Temperature Sensor Control Technology is integrated into the unit whereby the controller, and return section consist of built in temperature sensors to send real-time signals to the unit for a more precise supplying temperature.

Hisense VRF

Conventional

## Adjustable Static Pressure*

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



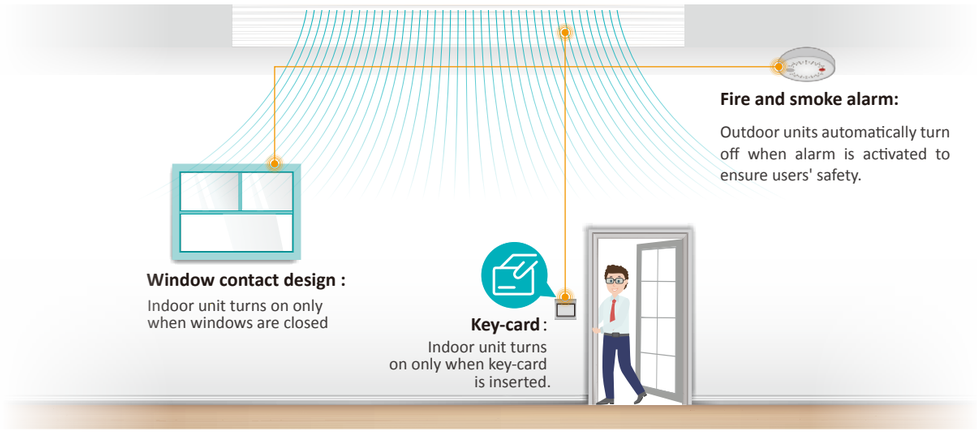

*: AC/DC Low Height,Low Static and High Static Pressure Ducted Unit have different number of static pressure choices, please refer to the specifications for more detail information.

## New Improved Bendable Filters

Standard filters that comes with high/low static pressure ceiling ducted type 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 are 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(AC Low Height)

| 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 | | | | | | | | |
| 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 | | mm | I.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 |
| | Packaging | H | mm | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| | | W | mm | 925 | 925 | 925 | 925 | 1136 | 1136 | 1406 | 1406 | 1406 |
| | | D | mm | 574 | 574 | 574 | 574 | 574 | 574 | 574 | 574 | 574 |

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(DC Low Height)

| Model | | | | AVE-05 HJFDL | AVE-07 HJFDL | AVE-09 HJFDL | AVE-12 HJFDL | AVE-15 HJFDL | AVE-17 HJFDL | AVE-19 HJFDL | AVE-22 HJFDL | AVE-24 HJFDL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 30 | 30 | 50 | 50 | 60 | 60 | 60 | 90 | 90 |
| | Heating | | W | 30 | 30 | 50 | 50 | 60 | 60 | 60 | 90 | 90 |
| Sound Pressure | | | dB(A) | 28/27/26/ 24/23/21 | 28/27/26/ 24/23/21 | 35/32/32/ 30/26/23 | 35/32/32/ 30/26/23 | 35/32/32/ 30/26/23 | 35/32/32/ 30/26/23 | 35/32/30/ 28/25/23 | 38/36/35/ 33/31/24 | 38/36/35/ 33/31/24 |
| Airflow Rate | | | m³/min | 7.0/6.5/6.1/ 5.7/5.3/4.8 | 7.0/6.5/6.1/ 5.7/5.3/4.8 | 9.0/8.1/7.3/ 6.7/5.9/5.2 | 9.0/8.1/7.3/ 6.7/5.9/5.2 | 12/10.8/9.4/ 8.1/6.8/5.5 | 12/10.8/9.4/ 8.1/6.8/5.5 | 13.5/12.5/11.2/ 10.0/8.8/7.7 | 18/16.1/14.3/ 12.3/10.5/8.7 | 18/16.1/14.3/ 12.3/10.5/8.7 |
| External Static Pressure | | | Pa | 10(0-10-30) | 10(0-10-30) | 10(0-10-30) | 10(0-10-30) | 10(0-10-30) | 10(0-10-30) | 10(0-10-30) | 10(0-10-30) | 10(0-10-30) |
| 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 | | mm | I.D.32 | | | | | | | | |
| Weight | Net Weight | | kg | 16 | 16 | 17 | 17 | 20 | 20 | 24 | 24 | 24 |
| | 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 |
| | Packaging | H | mm | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| | | W | mm | 925 | 925 | 925 | 925 | 1136 | 1136 | 1406 | 1406 | 1406 |
| | | D | mm | 574 | 574 | 574 | 574 | 574 | 574 | 574 | 574 | 574 |

NOTES:

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

## Ceiling Ducted Type (High Static Pressure)

| Model | | | AVD-07 HCFCH | AVD-09 HCFCH | AVD-12 HCFCH | AVD-15 HCFCH | AVD-19 HCFCH | AVD-22 HCFCH | AVD-24 HCFCH | AVD-27 HCFCH | AVD-30 HCFCH | AVD-38 HCFCH | AVD-48 HCFCH | AVD-54 HCFCH | AVD-76U X6SEH*1 | AVD-96U X6SFH*1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power Supply | | | AC 1Φ,220V~240V/50Hz | | | | | | | | | | | | | |
| Model | | | AVD-07 H3FCH | AVD-09 H3FCH | AVD-12 H3FCH | AVD-15 H3FCH | AVD-19 H3FCH | AVD-22 H3FCH | AVD-24 H3FCH | AVD-27 H3FCH | AVD-30 H3FCH | AVD-38 H3FCH | AVD-48 H3FCH | AVD-54 H3FCH | — | — |
| Power Supply | | | AC 1Φ,208~230V/60Hz | | | | | | | | | | | | | |
| Capacity | Cooling | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 6.3 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 | 22.4 | 28.0 |
| | | Btu/h | 7500 | 9600 | 12300 | 15400 | 19100 | 21600 | 24200 | 27400 | 30800 | 38000 | 48000 | 54500 | 76500 | 95600 |
| | Heating | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 7.1 | 8.0 | 9.0 | 10.0 | 12.5 | 16.0 | 18.0 | 25 | 31.5 |
| | | Btu/h | 8500 | 10900 | 13700 | 17100 | 21600 | 24200 | 27400 | 30800 | 34200 | 42500 | 54500 | 61500 | 21500 | 27100 |
| Power Input | Cooling | kW | 0.10(0.13*1) | 0.10(0.13*1) | 0.13(0.16*1) | 0.13(0.16*1) | 0.14(0.21*1) | 0.19(0.24*1) | 0.19(0.24*1) | 0.25(0.34*1) | 0.25(0.34*1) | 0.25(0.34*1) | 0.34(0.45*1) | 0.43(0.59*1) | 1.03 | 1.28 |
| | Heating | kW | 0.10(0.13*1) | 0.10(0.13*1) | 0.13(0.16*1) | 0.13(0.16*1) | 0.14(0.21*1) | 0.19(0.24*1) | 0.19(0.24*1) | 0.25(0.34*1) | 0.25(0.34*1) | 0.25(0.34*1) | 0.34(0.45*1) | 0.43(0.59*1) | 1.03 | 1.28 |
| Sound Pressure | 220-240V/50Hz | dB(A) | 32/27/25 | 32/27/25 | 35/32/26 | 35/32/26 | 36/35/30 | 39/32/25 | 39/32/25 | 42/39/34 | 42/39/34 | 42/39/34 | 43/40/35 | 46/40/35 | 52 | 54 |
| | 208V/60Hz | dB(A) | 33/28/24 | 33/28/24 | 37/34/29 | 37/34/29 | 37/35/29 | 39/32/25 | 39/32/25 | 42/38/33 | 42/38/33 | 42/38/33 | 44/39/34 | 45/40/34 | 52 | 54 |
| | 230V/60Hz | dB(A) | 37/33/28 | 37/33/28 | 40/38/33 | 40/38/33 | 42/40/34 | 43/37/30 | 43/37/30 | 44/42/37 | 44/42/37 | 44/42/37 | 47/43/38 | 46/42/38 | 52 | 54 |
| Air Flow(Hi/Me/Lo) | | $m^3$/min | 9/7/6 | 9/7/6 | 12/10/8.5 | 12/10/8.5 | 15/13/10 | 19/14/10 | 19/14/10 | 28/24/19.5 | 28/24/19.5 | 28/24/19.5 | 35.5/29/24 | 39/31/24 | 58 | 77.5 |
| External Static Pressure | 220-240V/50Hz 208V/60Hz | Pa | 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 |
| | 230V/60Hz | Pa | 80(105) | 80(105) | 90(115) | 90(115) | 90(115) | 90(115) | 90(115) | 170(150) | 170(150) | 170(150) | 170(150) | 170(150) | - | - |
| Piping | Connection Type | - | Flare-nut Connection(with Flare Nuts) | | | | | | | | | | | | Brazing | |
| | Liquid | mm | Φ6.35 | Φ6.35 | Φ6.35 | Φ6.35 | Φ 6.35 | Φ9.53 | Φ 9.53 | Φ9.53 | 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 | 3/8 | 3/8 | 3/8 |
| | Gas | mm | Φ12.7 | Φ12.7 | Φ12.7 | Φ12.7 | Φ 15.88 | Φ15.88 | Φ 15.88 | Φ15.88 | Φ15.88 | Φ15.88 | Φ15.88 | Φ15.88 | Φ19.05 | Φ22.2 |
| | | 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 | 3/4 | 7/8 |
| | Condensate Drain | mm | I.D.32 | | | | | | | | | | | | | |
| Weight | Net Weight | kg | 25(24*2) | 25(24*2) | 25(24*2) | 25(24*2) | 30(31*2) | 30(31*2) | 30(31*2) | 45(44*2) | 45(44*2) | 45(44*2) | 53(50*2) | 53(50*2) | 94 | 106 |
| | Gross Weight | kg | 31(30*2) | 31(30*2) | 31(30*2) | 31(30*2) | 36(38*2) | 37(38*2) | 37(38*2) | 52(52*2) | 52(52*2) | 52(52*2) | 61(59*2) | 61(59*2) | 106 | 111 |
| Dimensions | External H | mm | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 300 | 300 | 300 | 300 | 300 | 470 | 470 |
| | External W | mm | 650+75 | 650+75 | 650+75 | 650+75 | 900+75 | 900+75 | 900+75 | 1100+75 | 1100+75 | 1100+75 | 1400+75 | 1400+75 | 1060 | 1250 |
| | External D | mm | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 800 | 800 | 800 | 800 | 800 | 1120 | 1120 |
| | Packaging H | mm | 385 | 385 | 385 | 385 | 385 | 385 | 385 | 415 | 415 | 415 | 415 | 415 | 1345 | 1345 |
| | Packaging W | mm | 895 | 895 | 895 | 895 | 1140 | 1140 | 1140 | 1345 | 1345 | 1345 | 1640 | 1640 | 1276 | 1466 |
| | Packaging D | mm | 870 | 870 | 870 | 870 | 870 | 870 | 870 | 950 | 950 | 950 | 950 | 950 | 546 | 546 |

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: The value noted *2 is the parameter of the indoor units with power supply 208~230V/60Hz.

## Ceiling Ducted Type (Low Static Pressure)

| Model | | | AVD-07 HCFCL | AVD-09 HCFCL | AVD-12 HCFCL | AVD-15 HCFCL | AVD-19 HCFCL | AVD-22 HCFCL | AVD-24 HCFCL | AVD-27 HCFCL | AVD-30 HCFCL | AVD-38 HCFCL | AVD-48 HCFCL | AVD-54 HCFCL | AVD-76U X6SEL*1 | AVD-96U X6SFL*1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power Supply | | | AC 1Φ,220V~240V/50Hz | | | | | | | | | | | | | |
| Capacity | Cooling | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 6.3 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 | 22.4 | 28.0 |
| | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 21,600 | 24,200 | 27,400 | 30,800 | 38,000 | 48,000 | 54,500 | 76,500 | 95,600 |
| | Heating | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 6.5 | 7.3 | 8.7 | 9.3 | 11.6 | 14.5 | 16.5 | 25.0 | 31.5 |
| | | Btu/h | 8,500 | 10,900 | 13,700 | 17,100 | 21,600 | 22,200 | 25,000 | 29,600 | 31,800 | 39,500 | 49,500 | 56,500 | 85,300 | 107,500 |
| Power Input | Cooling | W | 60 | 60 | 110 | 110 | 90 | 160 | 160 | 240 | 240 | 240 | 290 | 360 | 950 | 1120 |
| | Heating | W | 60 | 60 | 110 | 110 | 90 | 160 | 160 | 240 | 240 | 240 | 290 | 360 | 950 | 1120 |
| Sound Pressure | | dB(A) | 27/23/21 | 27/23/21 | 34/30/25 | 34/30/25 | 32/30/26 | 35/28/24 | 35/28/24 | 38/33/30 | 38/33/30 | 38/33/30 | 41/38/33 | 44/39/33 | 50 | 52 |
| Air Flow Rate (Hi/Me/Lo) | | $m^3$/min | 9/7/6 | 9/7/6 | 12/10/8.5 | 12/10/8.5 | 15/13/10 | 19/14/10 | 19/14/10 | 28/24/19.5 | 28/24/19.5 | 28/24/19.5 | 35.5/29/24 | 39/31/24 | 58 | 72 |
| External Static Pressure | | Pa | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 60 | 60 | 60 | 60 | 60 | 100 | 100 |
| Piping | Connection Type | - | Flare-nut Connection(with Flare Nuts) | | | | | | | | | | | | Brazing | |
| | Liquid | mm | Φ6.35 | Φ6.35 | Φ6.35 | Φ6.35 | Φ6.35 | Φ9.53 | Φ9.53 | Φ9.53 | Φ9.53 | Φ9.53 | Φ9.53 | Φ9.53 | 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 | 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 | Φ15.88 | Φ19.05 | Φ22.2 |
| | | 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 | 3/4 | 7/8 |
| | Condensate Drain | mm | I.D.32 | | | | | | | | | | | | | |
| Weight | Net Weight | kg | 25 | 25 | 25 | 25 | 30 | 30 | 30 | 45 | 45 | 45 | 52 | 52 | 94 | 106 |
| | Gross Weight | kg | 31 | 31 | 31 | 31 | 36 | 37 | 37 | 52 | 52 | 52 | 61 | 61 | 106 | 111 |
| Dimensions | External H | mm | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 300 | 300 | 300 | 300 | 300 | 470 | 470 |
| | External W | mm | 650+75 | 650+75 | 650+75 | 650+75 | 900+75 | 900+75 | 900+75 | 1100+75 | 1100+75 | 1100+75 | 1400+75 | 1400+75 | 1060 | 1250 |
| | External D | mm | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 800 | 800 | 800 | 800 | 800 | 1120 | 1120 |
| | Packaging H | mm | 385 | 385 | 385 | 385 | 385 | 385 | 385 | 415 | 415 | 415 | 415 | 415 | 1345 | 1345 |
| | Packaging W | mm | 895 | 895 | 895 | 895 | 1140 | 1140 | 1140 | 1345 | 1345 | 1345 | 1640 | 1640 | 1276 | 1466 |
| | Packaging D | mm | 870 | 870 | 870 | 870 | 870 | 870 | 870 | 950 | 950 | 950 | 950 | 950 | 546 | 546 |

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

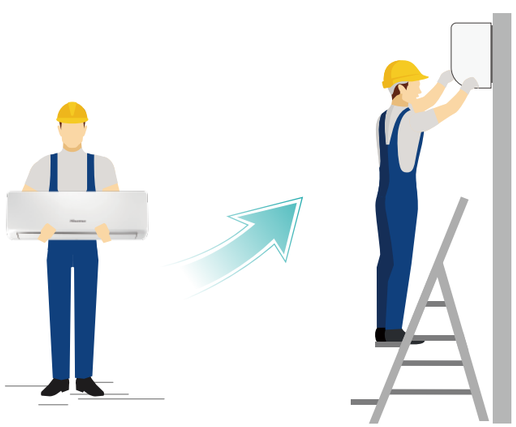
# Wall Mounted Type

## 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 and 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. An additional direction to the back of the unit for refrigerant pipes to allow passing through walls.



| 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 | 82 |
| 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 | | | - | White | White | White | White | White | White | White | 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 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.18 | | | | | | | |
| 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 |
| | Packaging | H | mm | 445 | 445 | 445 | 445 | 445 | 438 | 438 | 438 |
| | | W | mm | 1080 | 1080 | 1080 | 1080 | 1080 | 1238 | 1238 | 1238 |
| | | D | mm | 355 | 355 | 355 | 355 | 355 | 349 | 349 | 349 |

NOTES:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20°C DB(68°F DB).
   Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)
2. The sound pressure level is based on the following conditions:
   1.1m beneath the unit and 1.0m from inlet grille.
   Voltage of the power source for the indoor fan motor is 220V.
   In case of the power source of 240V, the sound pressure level increases by about 1~2dB.
   The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

# Ceiling & Floor Type

## Sleek Smooth Design

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

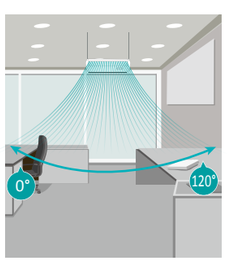
## Flexible Installation

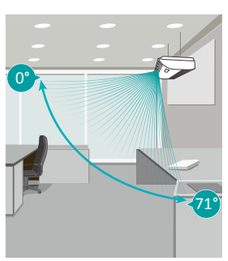
The unit can be installed to be standing on floors or hanging on ceilings. Whereby interior walls maximized to display items, can hang the unit on the ceiling.

Hanging on the wall Standing on the floor

## 3D Air Supply

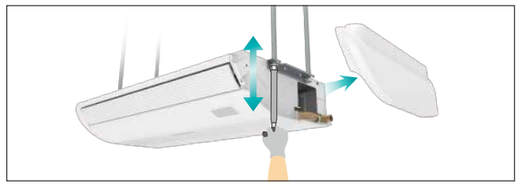
Louvers are consist of horizontal and vertical flaps to cover larger coverage area to the edges of any rooms. Wider opening angle from up to 120° for vertical louvers and up to 71° for horizontal louvers supply air further and lower down to floor needed during heating modes.

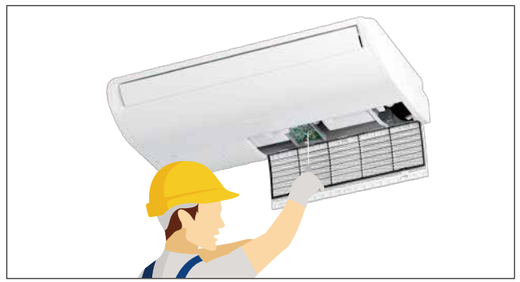



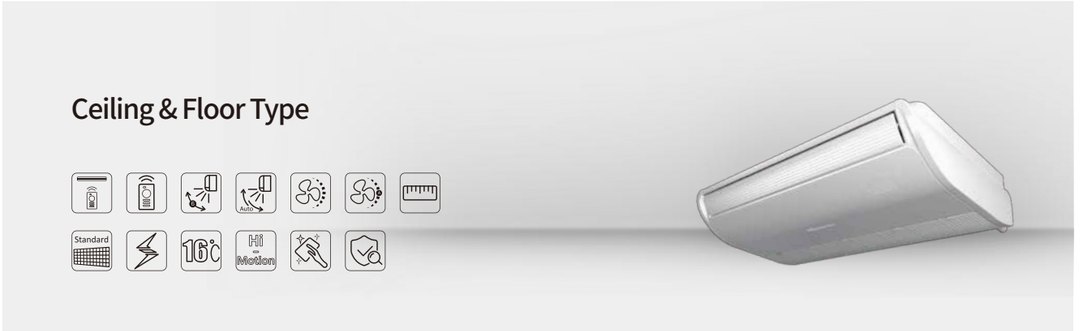




## Convenient Installation and Maintenance

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.








| 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 | | | - | Neture White | Neture White | Neture White | Neture White | Neture White | Neture White | Neture White | Neture White |
| 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 | I.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 |
| | Packaging | H | mm | 340 | 340 | 340 | 340 | 340 | 340 | 340 | 340 |
| | | W | mm | 1110 | 1110 | 1110 | 1110 | 1400 | 1400 | 1400 | 1690 |
| | | D | mm | 830 | 830 | 830 | 830 | 830 | 830 | 830 | 830 |

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.

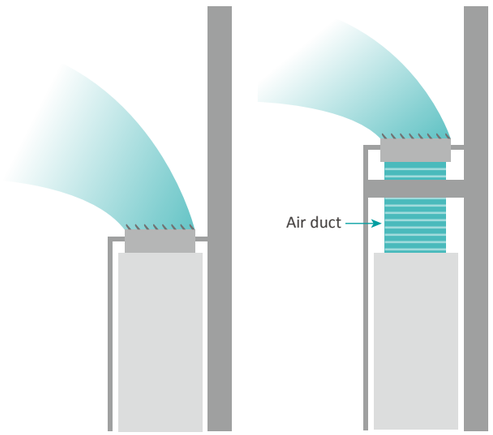
# Floor Concealed Type

## Space Saving

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

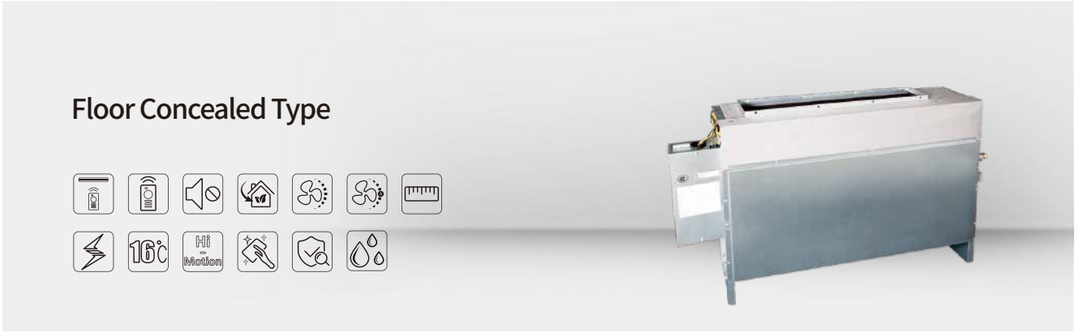

## Flexible Installation

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




## Easy to Clean

The floor concealed unit has the smooth appearance which provides the convenience for users to clean. On the other hand, the smooth appearance is also not easy to storage the dust and can keep clean that is very important for the floor concealed unit.




| 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 | | | $m^3$/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 | I.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 |
| | Packaging | H | mm | 675 | 675 | 675 | 675 |
| | | W | mm | 1160 | 1160 | 1430 | 1430 |
| | | D | mm | 240 | 240 | 240 | 240 |

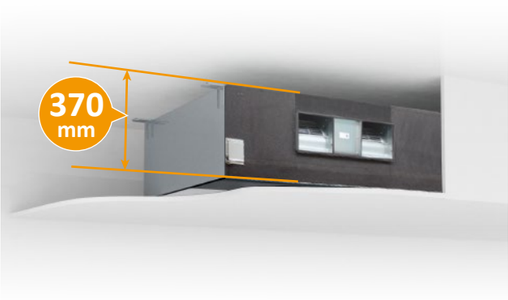
NOTES:

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.

# All Fresh Air Indoor Unit

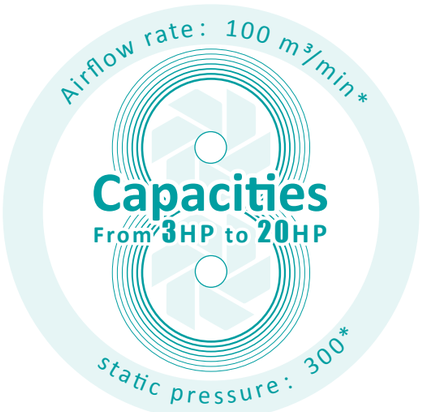
## Space Saving

Fresh air unit consising of height of 370mm only requires small amount of ceiling space and fits into complicated kitchen ceilings with various exhaust duct connections.




## Larger Airflow Rate & Static Pressure Options

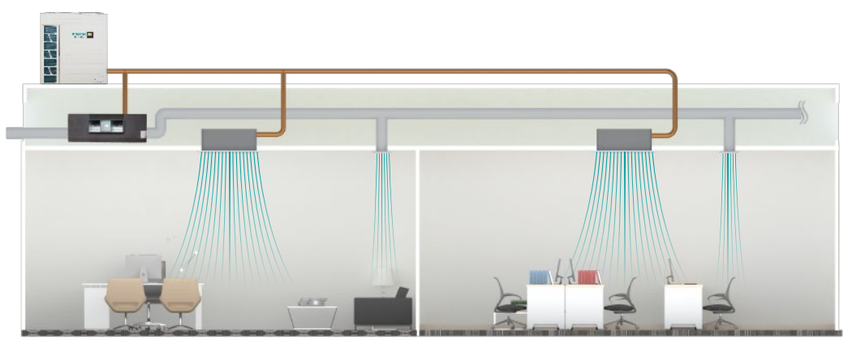
The total amount of fresh air units could be reduced with larger capacity, large airflow rate per unit. With the reduced amount of units, fresh air ducts often need to be supply to the furthest room. Hence achievable with high static pressures offered.




*Note: only specific model can reach this figure.

## 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 fan coil units.




| Model | | | | AVA-30UX CSCH-70 | AVA-48UX CSQH-108 | AVA-76UX CSRH-168 | AVA-96UX CSRH-210 | 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 | — | | | |
| Power Supply | | | | AC 1Φ,220V/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 |
| | Condensate Drain | | mm | I.D.32 | | | | | RC1 (Internal Screw) | | |
| 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: -5°C~15°C | | | | | | | |

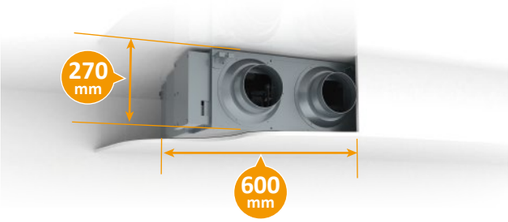
NOTES:

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, -2.9°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. 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 -5°C all fresh air unit will stop.

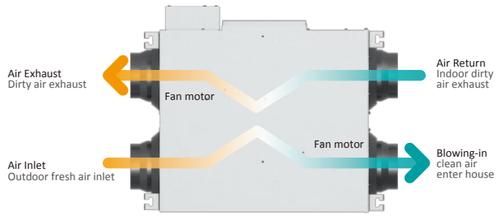
# Heat Recovery Ventilator

## Compact Machine, Convenient Installation.

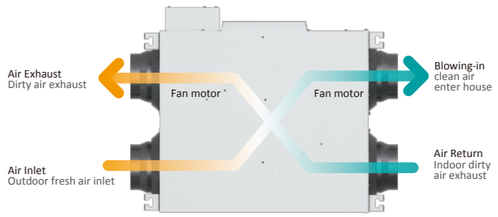
The thickness of machine can be easily installed in the narrow residential ceiling. The width of the machine whose volume is under 300 m³/h is less than 600mm, which is particularly suitable for very narrow spaces in the ceiling, and can save the space of installation, it is more convenient for construction.




## Airflow System



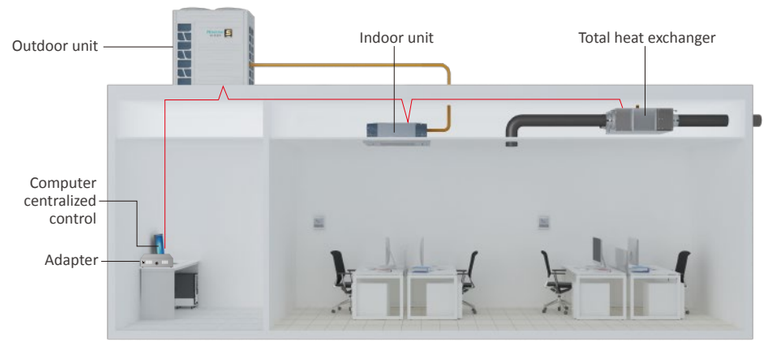

HKF-15B2EC~HKF-100B2EC




HKF-150B2EE~HKL-500B2EE

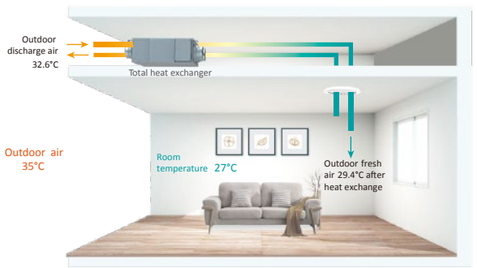
## Centralized Control System

Hisense centralized control type total heat exchanger products can be connected to the centralized control system of Hisense air conditioning, achieve the linkage with air conditioning system and centralized control, so the operation is more convenient and more intelligent!




## Energy Saving Analysis

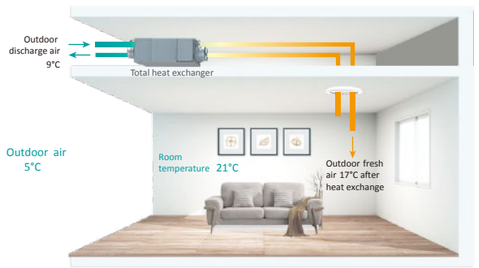
### Summer Energy Saving Analysis




Total heat exchanger mode

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.

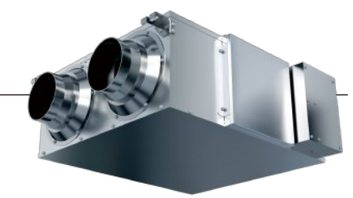
### Winter Energy Saving Analysis



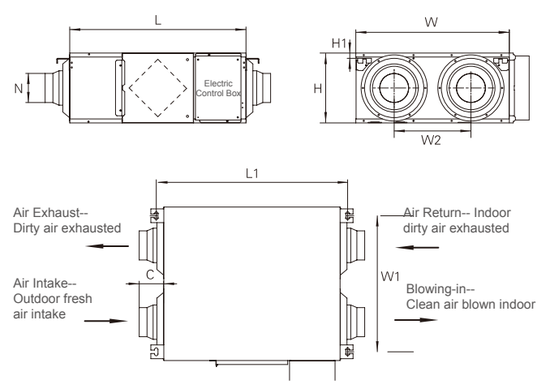

Total heat exchanger mode

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.

## HKF-15B2EC



### Product Dimensions



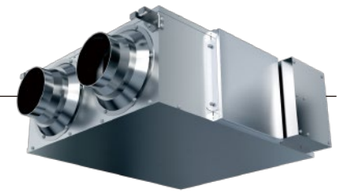

| Model | L | L1 | W | W1 | W2 | H | C | N | H1 |
|---|---|---|---|---|---|---|---|---|---|
| HKF-15B2EC* | 665 | 723 | 580 | 514 | 290 | 265 | 90 | Φ144 | 20 |

### Technical Parameters

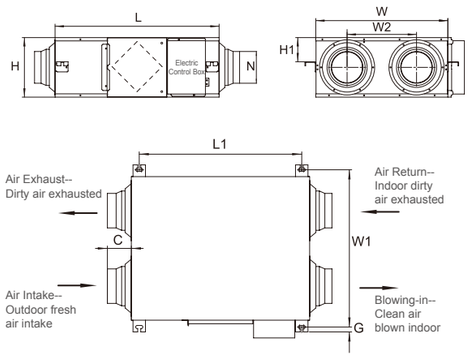
| Model | Air Volume m³/h | | | Enthalpy Efficiency (Summer) ηi | | | Enthalpy Efficiency (Winter) ηi | | | External Static Pressure Pa | | | Power Supply | Input Current A | | | Input Power KW | | | Noise Level dB(A) | | | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High | Middle | Low | High | Middle | Low | High | Middle | Low | High | Middle | Low | | High | Middle | Low | High | Middle | Low | High | Middle | Low | |
| HKF-15B2EC* | 150 | 150 | 110 | 58 | 58 | 60 | 65 | 65 | 69 | 85 | 70 | 65 | 220-240V /50HZ | 0.38 | 0.36 | 0.31 | 2× 0.041 | 2× 0.038 | 2× 0.029 | 30 | 29 | 28 | 25 |

*: 220V/60Hz HKF-15B2E2

# HKF-25B2EC~HKF-100B2EC



## Product Dimensions




| Model | L | L1 | W | W1 | W2 | H | C | G | N | H1 |
|---|---|---|---|---|---|---|---|---|---|---|
| HKF-25B2EC* | 745 | 675 | 600 | 656 | 315 | 270 | 90 | 19 | Φ144 | 110 |
| HKF-35B2EC* | 745 | 675 | 805 | 861 | 480 | 270 | 90 | 19 | Φ144 | 110 |
| HKF-50B2EC* | 825 | 755 | 905 | 961 | 500 | 270 | 96 | 19 | Φ194 | 110 |
| HKF-65B2EC* | 1115 | 1050 | 885 | 941 | 430 | 390 | 80 | 19 | Φ242 | 175 |
| HKF-80B2EC* | 1115 | 1050 | 1135 | 1191 | 675 | 390 | 80 | 19 | Φ242 | 175 |
| HKF-100B2EC* | 1115 | 1050 | 1135 | 1191 | 675 | 390 | 80 | 19 | Φ242 | 175 |

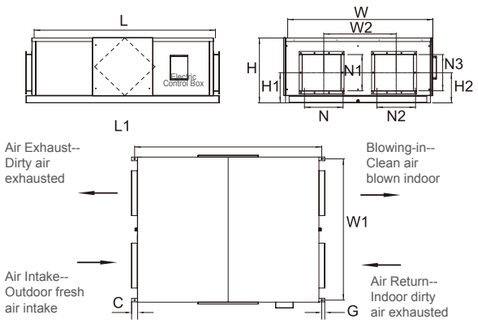
## Technical Parameters

| Model | Air Volume m³/h | | | Enthalpy Efficiency (Summer) η i | | | Enthalpy Efficiency (Winter) η i | | | External Static Pressure Pa | | | Power Supply | Input Current A | | | Input Power KW | | | Noise Level dB(A) | | | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High | Middle | Low | High | Middle | Low | High | Middle | Low | High | Middle | Low | | High | Middle | Low | High | Middle | Low | High | Middle | Low | |
| HKF-25B2EC* | 250 | 250 | 190 | 57 | 57 | 59 | 63 | 63 | 68 | 85 | 65 | 60 | | 0.66 | 0.56 | 0.52 | 2×0.069 | 2×0.055 | 2×0.049 | 32 | 31 | 28 | 30 |
| HKF-35B2EC* | 350 | 350 | 270 | 55 | 55 | 57 | 62 | 62 | 65 | 100 | 75 | 65 | | 0.76 | 0.75 | 0.71 | 2×0.083 | 2×0.079 | 2×0.075 | 34 | 33 | 31 | 35 |
| HKF-50B2EC* | 500 | 500 | 400 | 56 | 56 | 58 | 63 | 63 | 65 | 130 | 110 | 100 | 220-240V /50HZ | 1.82 | 1.71 | 1.52 | 2×0.189 | 2×0.157 | 2×0.124 | 39 | 38 | 36 | 40 |
| HKF-65B2EC* | 650 | 650 | 550 | 57 | 57 | 59 | 63 | 63 | 68 | 130 | 100 | 100 | | 1.75 | 1.62 | 1.51 | 2×0.193 | 2×0.178 | 2×0.164 | 40 | 38 | 35 | 62 |
| HKF-80B2EC* | 800 | 800 | 650 | 58 | 58 | 59 | 66 | 66 | 68 | 130 | 100 | 90 | | 1 98 | 1.88 | 1.75 | 2×0.211 | 2×0.196 | 2×0.18 | 42 | 40 | 37 | 72 |
| HKF-100B2EC* | 1000 | 1000 | 700 | 56 | 56 | 58 | 63 | 63 | 66 | 165 | 120 | 60 | | 4.68 | 4.18 | 3.47 | 2×0.510 | 2×0.450 | 2×0.363 | 44 | 42 | 38 | 79 |

*: AC 1Φ220V/60Hz HKF-25B2E2~HKF-100B2E2

# HKF-150B2EE~HKF-200B2EE

## Product Dimensions




| Model | L | L1 | W | W1 | W2 | H | H1 |
|---|---|---|---|---|---|---|---|
| HKF-150B2EE* | 1500 | 1550 | 1200 | 1170 | 600 | 540 | 250 |
| HKF-200B2EE* | 1550 | 1600 | 1400 | 1370 | 700 | 540 | 250 |

| Model | C | G | N | N1 | N2 | N3 | H2 |
|---|---|---|---|---|---|---|---|
| HKF-150B2EE* | 50 | 25 | 320 | 300 | 320 | 300 | 250 |
| HKF-200B2EE* | 50 | 25 | 320 | 300 | 320 | 300 | 250 |

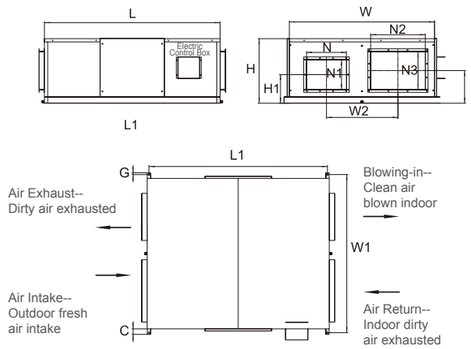
## Technical Parameters

| Model | Air Volume m³/h | Enthalpy Efficiency (Summer) η i | Enthalpy Efficiency (Winter) η i | External Static Pressure Pa | Power Supply | Input Current A | Input Power KW | Noise Level dB(A) | Weight kg |
|---|---|---|---|---|---|---|---|---|---|
| HKF-150B2EE* | 1500 | 55 | 63 | 180 | 380~415V/50Hz | 2.78 | 2×0.41 | 48 | 151 |
| HKF-200B2EE* | 2000 | 54 | 62 | 160 | 380~415V/50Hz | 2.89 | 2×0.52 | 49 | 172 |

* : AC 3Φ220V/60Hz HKF-150B2E9 HKF-200B2E9 AC 3Φ380V/60Hz HKF-150B2EF HKF-200B2EF

# HKF-250B2EE~HKF-300B2EE

## Product Dimensions




| Model | L | L1 | W | W1 | W2 | H | H1 |
|---|---|---|---|---|---|---|---|
| HKF-250B2EE* | 1610 | 1580 | 1330 | 1400 | 655 | 600 | 265 |
| HKF-300B2EE* | 1700 | 1670 | 1500 | 1570 | 750 | 640 | 272 |

| Model | C | G | N | N1 | N2 | N3 | H2 |
|---|---|---|---|---|---|---|---|
| HKF-250B2EE* | 50 | 15 | 365 | 275 | 500 | 350 | 300 |
| HKF-300B2EE* | 50 | 15 | 365 | 275 | 500 | 350 | 309 |

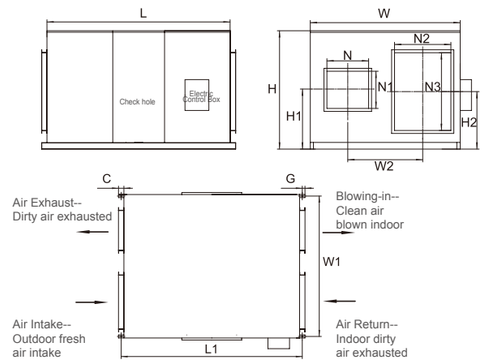
## Technical Parameters

| Model | Air Volume m³/h | Enthalpy Efficiency (Summer) η i | Enthalpy Efficiency (Winter) η i | External Static Pressure Pa | Power Supply | Input Current A | Input Power KW | Noise Level dB(A) | Weight kg |
|---|---|---|---|---|---|---|---|---|---|
| HKF-250B2EE* | 2500 | 54 | 62 | 180 | 380~415V/50Hz | 3.86 | 2×0.72 | 53 | 185 |
| HKF-300B2EE* | 3000 | 55 | 63 | 200 | 380~415V/50Hz | 5.12 | 2×1.16 | 56 | 222 |

* : AC 3Φ220V/60Hz HKF-250B2E9 HKF-300B2E9 AC 3Φ380V/60Hz HKF-250B2EF HKF-300B2EF

# HKL-400B2EE~HKL-500B2EE

## Product Dimensions




| Model | L | L1 | W | W1 | W2 | H | H1 |
|---|---|---|---|---|---|---|---|
| HKL-400B2EE* | 1625 | 1675 | 1330 | 1300 | 665 | 1050 | 490 |
| HKL-500B2EE* | 1625 | 1675 | 1330 | 1300 | 665 | 1050 | 490 |

| Model | C | G | N | N1 | N2 | N3 | H2 |
|---|---|---|---|---|---|---|---|
| HKL-400B2EE* | 50 | 25 | 370 | 330 | 500 | 690 | 475 |
| HKL-500B2EE* | 50 | 25 | 370 | 330 | 500 | 690 | 475 |

## Technical Parameters

| Model | Air Volume m³/h | Enthalpy Efficiency (Summer) η i | Enthalpy Efficiency (Winter) η i | External Static Pressure Pa | Power Supply | Input Current A | Input Power KW | Noise Level dB(A) | Weight kg |
|---|---|---|---|---|---|---|---|---|---|
| HKL-400B2EE* | 4000 | 55 | 63 | 220 | 380~415V/50Hz | 5.89 | 2×1.71 | 57 | 312 |
| HKL-500B2EE* | 5000 | 53 | 61 | 240 | 380~415V/50Hz | 8.78 | 2×2.2 | 58 | 321 |

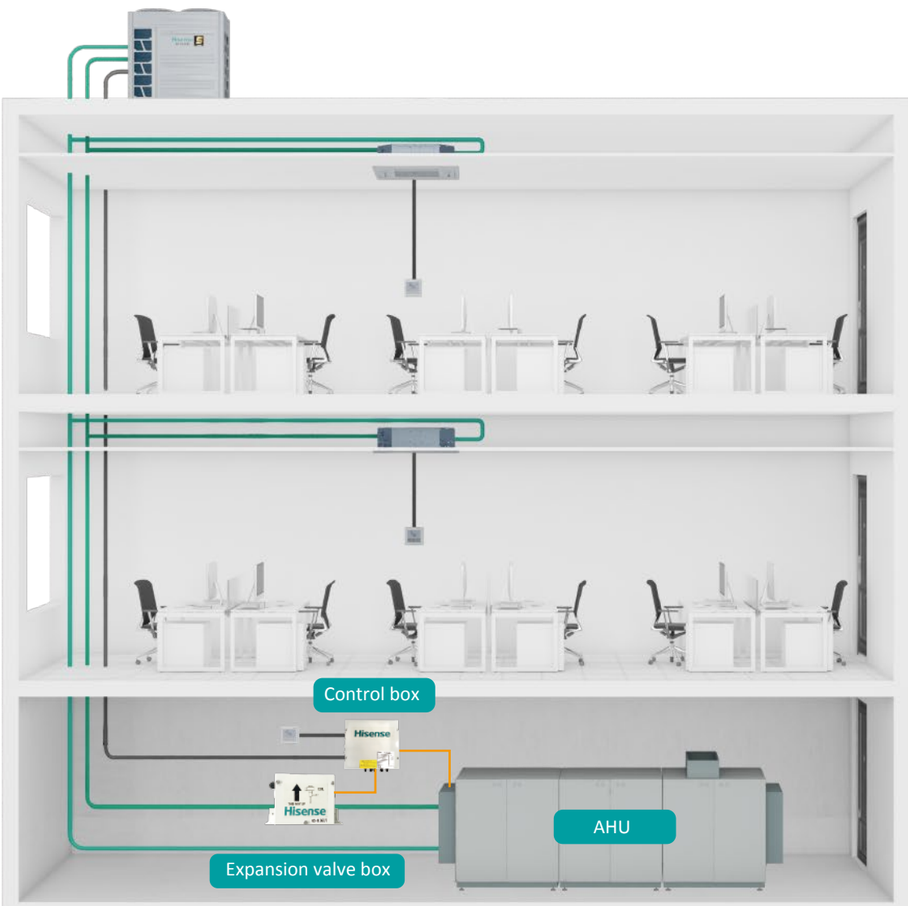
* : AC 3Φ220V/60Hz HKF-400B2E9 HKF-500B2E9 AC 3Φ380V/60Hz HKF-400B2EF HKF-500B2EF

# AHU Connection KIT

## Main Function

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

Communication wire — Sensor signal — Refrigerant pipe





| AHU Connection KIT | | | HZX-2.0 AEC | HZX-4.0 AEC | HZX-6.0 AEC | HZX-10.0 AEC | | HZX-20.0 AEC | | | | | HZX-30.0 AEC | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power Supply | | | AC 1Φ,220V~240V/50Hz,220V~240V/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) | Cooling | 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 |
| | | 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 |
| | Heating | 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 |
| Heat Exchanger Volume | Min | $dm^3$ | 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 | $dm^3$ | 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 |
| Net Weight | | | 7.3 | 7.3 | 7.3 | 7.3 | | 7.5 | | | | | 9.5 | | | | |
| Gross Weight | | | 12.3 | 12.4 | 12.4 | 12.4 | | 12.5 | | | | | 16.0 | | | | |
| Package Dimension (H×W×D) | | | 350×510×450 | | | | | | | | | | 460×510×450 | | | | |
| Control Box | Model | | HZX-AEC/1 | | | | | | | | | | | | | | |
| | Outer Dimension(H×W×D) | | 349×419×112 | | | | | | | | | | | | | | |
| 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-20.0 AEC/2 (2 sets) | | | | |
| | Outer Dimension(H×W×D) | | 166×437×61 | | | | | | | | | | 166×437×61(2 sets) | | | | |

| Operation conditions | | Cooling | Heating |
|---|---|---|---|
| Indoor air inlet temperature | DB | 27.0℃ | 20.0℃ |
| | WB | 19.0℃ | - |
| Outdoor air inlet temperature | DB | 35.0℃ | 7.0℃ |
| | WB | - | 6.0℃ |

DB: dry bulb; WB: wet bulb

Pipe Length: 7.5m; pipe height: 0m

Hisense VRF

# CONTROL SYSTEM


Individual Control

Centralized Control

Intelligent Control

AIR CONDITIONING SOLUTION

## Individual Control

| Model | Wired Controller | | | | | Wireless Controller | Central Controller | |
|---|---|---|---|---|---|---|---|---|
| | HYXM-VB01 | HYXE-VA01 | HYXE-M01H | HYXE-J01H | HYXE-S01H | HYE-W01 | HYJ-J01H | HYJM-S01H |
| Picture |  |  |  |  |  |  |  |  |
| Max. connectable indoor units | 6 | 16 | 6 | 16 | 16 | - | 128 | 160 |
| Cooling/Heating/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-VA01 | HYXE-J01H | HYXM-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(AC/DC) | ● | ● | ● | ● | ● | ● |
| | 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(AC/DC) | ● | ○ | ○ | ○ | ● | ● |
| | 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

## HYXM-VB01


| | |
|---|---|
| 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 control | 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

## HYXE-VA01


| | |
|---|---|
| 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 control | 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

## HYXE-M01H


| | |
|---|---|
| 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 control | • |
| 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-J01H


| | |
|---|---|
| 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 control | 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
- Touch button
- Language:
  HYXE-J01H: English, Arabic.
  HYXE-J01H1: English, Spanish, Italian, German, Polish.
  HYXE-J01H2: English, Turkish, Russian, French, Dutch

## HYXE-S01H


| | |
|---|---|
| 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 |
| Fan speed | 6 |
| Temperature control | • |
| Air filter cleaning reminding | • |

### Features

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

## Wireless Controller

### HYE-W01

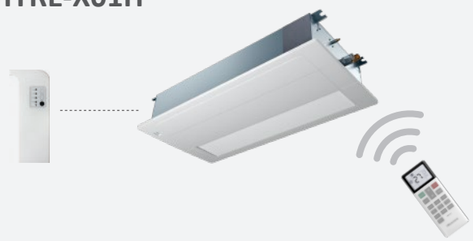
| | |
|---|---|
| Mode | Cool/Heat/Auto/Fan/Dry/ECO/Mute/Sleep |
| Timer | 24-hour |
| Maintenance | Auto test run/Self diagnostic function |
| Louver | Louver setting/3D-air flow |
| Special function | Health |
| Fan speed | 6 |
| Temperature control | • |
| Back light | • |

**Features**

- Size:145mm×55mm
- LCD display

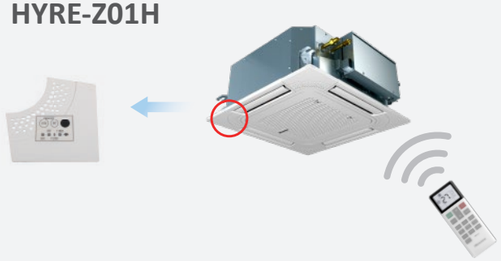
## Receiver Kit for Wireless Control-Optional

### HYRE-X01H

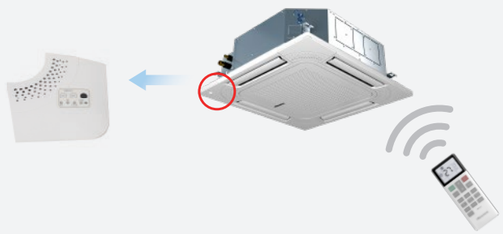


### HYRE-V02H

### HYRE-Z01H



### HYRE-T03H



## Centralized Control

### HYJM-S01H

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

**Features**

- 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

### ON/OFF Controller
### HYJ-J01H

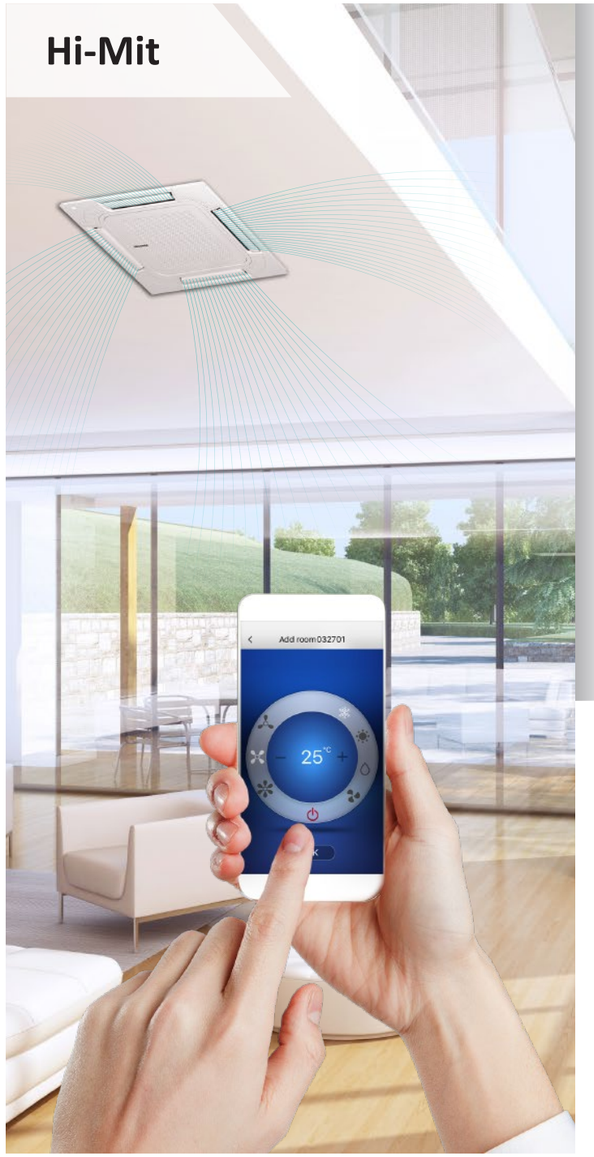

| |
|---|
| Group control (ON/OFF) |
| Indoor unit power OFF reminder |
| Indoor units Auto log in |
| Error reminder |

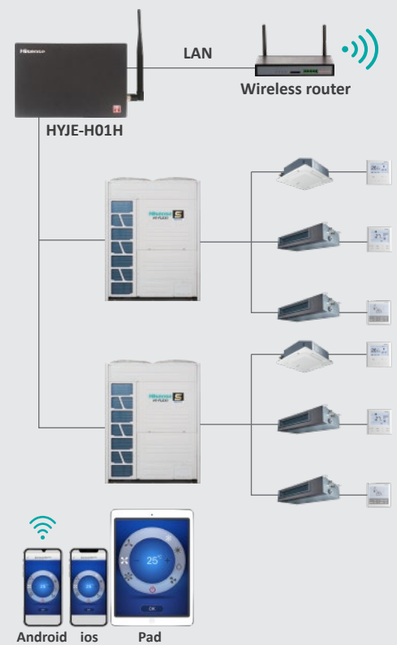
**Features**

- Size:120mm×120mm
- Max. connectable indoor units:128
- Max.connectable indoor unit groups:16
- Touch button

# Intelligent Control

## Hi-Mit



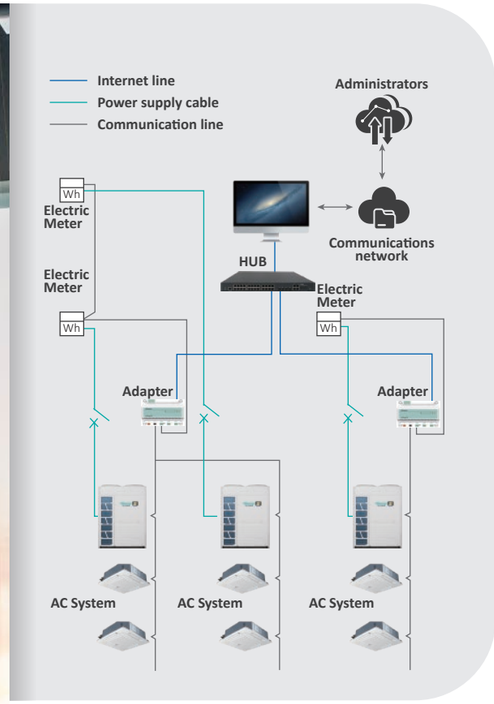

### Features

- ON/OFF, mode, temperature, 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

### Specifications

| Model | Power Supply | Maximum Operating Current |
|---|---|---|
| HYJE-H01H | AC 110~240V 50/60Hz | 10mA (220 V) |

## Hi-Dom



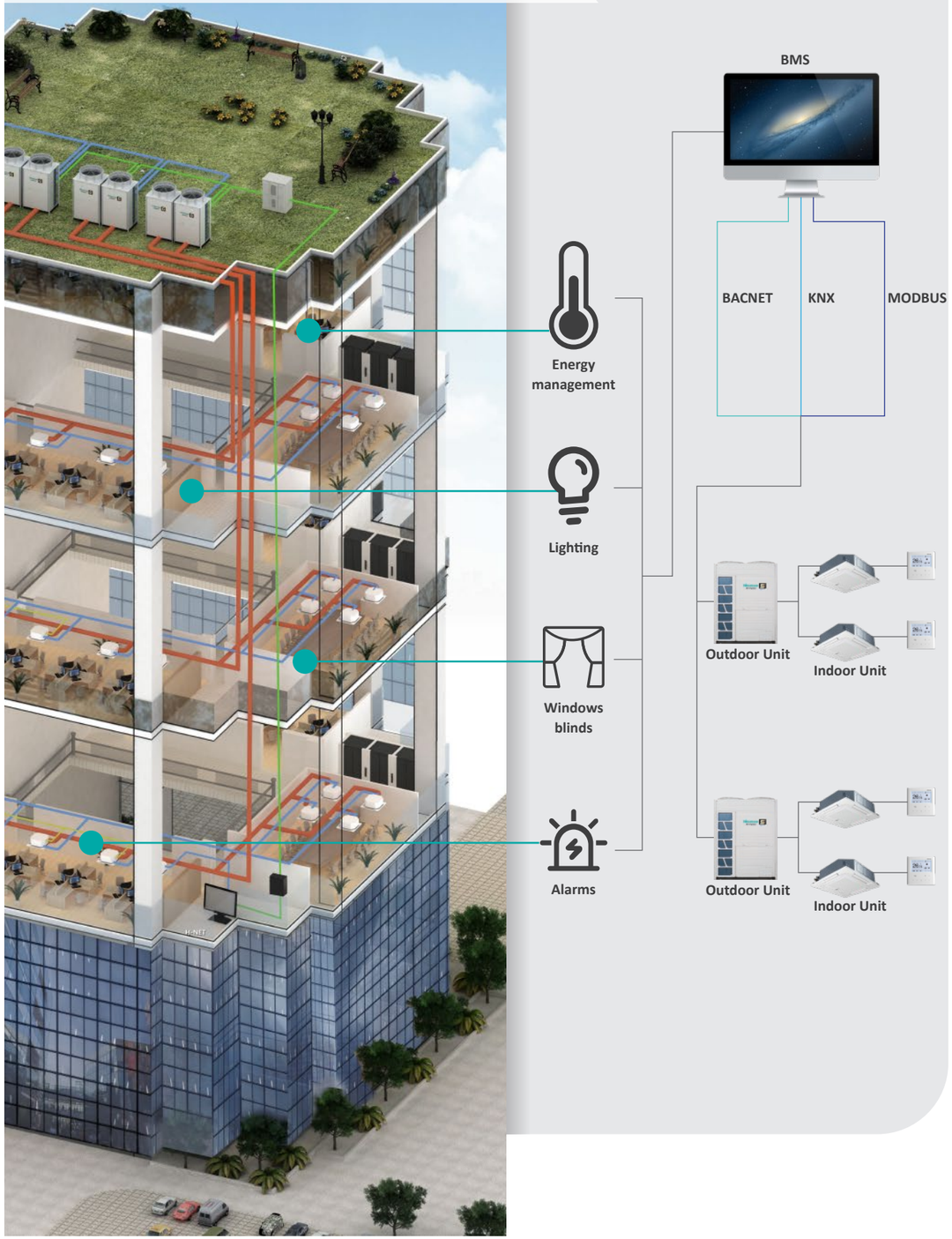

### Features

- Multilevel 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
- Supporting for external I/O
- 2D Navigation
- Electricity consumption allocation
- One Hi-DOM controls 160 indoor units
- Max.5120 indoor units can be controlled

### Specifications

| | Model | Power Supply | Dimension(LxWxD) | Note |
|---|---|---|---|---|
| Adapter | HCCS-H160H2C1YM | 12V | 180x115.4x64.5mm | With electric charging function |
| | HCCS-H160H2C1NM | 12V | 180x115.4x64.5mm | Without electric charging function |

# Building Management System




## KNX

| KNX | HS-RC-KNX-1i | HS-AC-KNX-16 | HS-AC-KNX-64 |
|---|---|---|---|
| Power Supply | DC, 29V | DC, 24V | DC, 24V |
| Max. Number of Connectable Indoor Units | 1 | 16 | 64 |
| Dimension (H×W×D) | 70×70×28mm | 56×88×90mm | 56×88×90mm |

### Features

- Standard data point types
- Error code
- Central control of all indoor units*1
- Easy to use tool for the configuration of Intesis box *1
- Directly control of all indoor units*2
- Air filter reminder *2
- Running hours counter *2

NOTE*1: Adapted for HS-AC-KNX-16,HS-AC-KNX-64. *2: Adapted for HS-RC-KNX-1i.

## MODBUS

| MODBUS | HCPC-H2M1C |
|---|---|
| Power Supply | DV,12V |
| Max. Number of Connectable Indoor Units | 64 |
| Dimension (H×W×D) | 70×204×240mm |

### Features

- On-Off setting
- Temperature setting
- Operating mode setting
- Inlet air temperature monitoring
- Airflow setting and monitoring
- All units On-Off control
- Alarm monitoring and code display

## BACNET

| BACNET | HS-AC-BAC-16 | HS-AC-BAC-64 |
|---|---|---|
| Power Supply | DC,24V | DC,24V |
| Max. Number of Connectable Indoor Units | 16 | 64 |
| Dimension (H×W×D) | 56×88×90mm | 56×88×90mm |

### Features

- Central control of all indoor units
- Indoor unit data monitoring
- Heat/ Dry/ Fan/ Cool/ Auto mode
- Control-vane position swing control
- Function prohibition of wired controller


Hisense VRF

# ACCESSORY

Engineering Tools

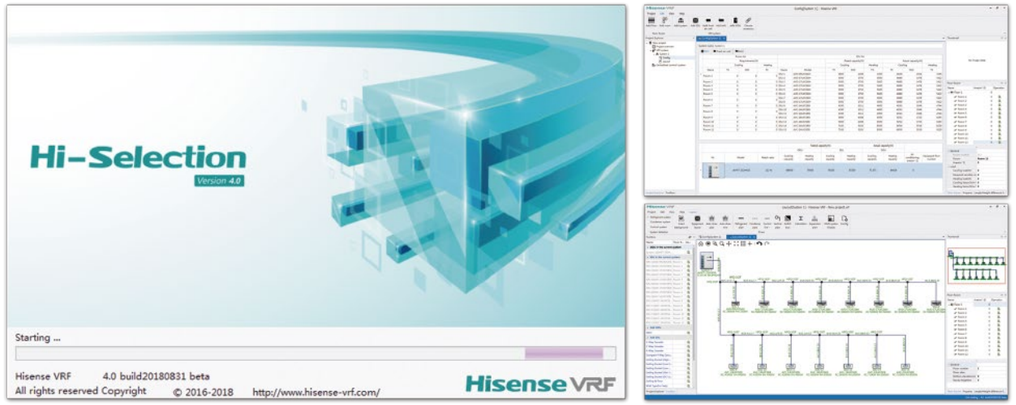
Optional Part

AIR CONDITIONING SOLUTION

## Engineering Tools

### Hi-Selection Software

Hi-Selection software developed by Hisense VRF is a Windows based program which support Windows XP and higher operating systems. It offers multiple languages to allow and eases users from different countries. Latest product specification and information could be obtained from the software as it supports database updates. The highlight of the software being architectural floor plans and drawings of any formats, be it a DWG, PDF, JPG or PNG could be imported either be exported at the end of the design. With the software, equipment selection, piping and wiring drawing could be done automatically at the tips of your fingers.

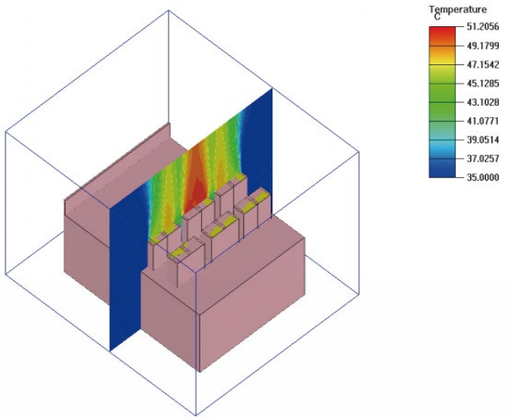



### Design Software

Hisense VRF design software is a AUTOCAD plug-in, supporting AUTOCAD version 2008 to 2020 in both 32-bit and 64-bit operating system. It consists of the complete online up-to-date product range database. Functions offer by the software include system piping calculation, refrigerant charge amount and many more.

## CFD

Hisense VRF offers Computational Fluid Dynamics (CFD) simulations as named as the best method to analyze building airflow ventilation. The simulation provides detailed and easy-to-understand results at the end of the simulation with colors and lines contours according to personal preferences.

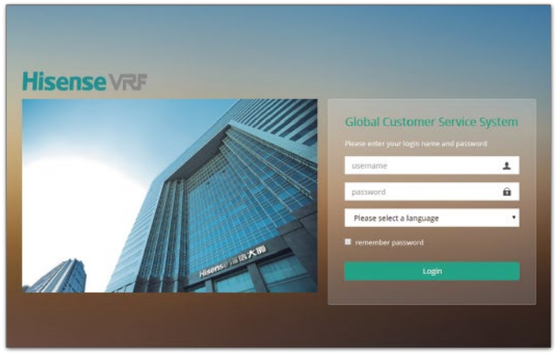


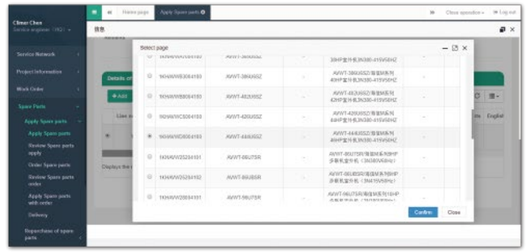

## BIM

Building Information Modelling (BIM) is an umbrella term to cover many aspects of building modeling. With the Revit families and 3D models provides by Hisense.


## GCSS

Hisense Global Customer Service System(GCSS) is an after-sales online website-based administration system widely offering to Hisense certified service partners and agents whereby improving customer's after-sales convenience and efficiency. 4 main services offered by the website include life-cycle project management, spare part and order delivery management and monitoring, warranty claim and online center hotline.



# Optional Part

## Hi-Motion

| Model | Applicable Models | Picture |
|---|---|---|
| HCM-S01E | All types of indoor units |  |

## Motion Sensor

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

## Fresh Air Duct Adapter

| Model | Applicable Models | Picture |
|---|---|---|
| HFL-56CSA | 4-Way Cassette Type and Mini 4-Way Cassette Type |  |

## Humidity Sensor

| Model | Applicable Models | Picture |
|---|---|---|
| HCHR-S01E | 4-Way Cassette Type, Console, Ceiling Ducted Typee |  |

## Filter

| Filter model | Filter Dimension | Frame Dimension | Application Models | Picture |
|---|---|---|---|---|
| HF-224L-FE | 782×165mm | 1055×463mm | AVD-76UX6SEH/L |  |
| HF-280L-FE | 1050×165mm | 1245×463mm | AVD-96UX6SFH/L | |

## Drain Pump

| Model | Applicable Models | Power Supply | Picture | |
|---|---|---|---|---|
| HPS-F133E | AVD-07-24HCFCH / AVD-07-24HCFCL | 220-240V/50Hz |  |  |
| HPS-F363E | AVD-27-54HCFCH / AVD-27-54HCFCL | | | |
| HPS-F134E | AVD-07-24H3FCH | 208-230V/60Hz | | |
| HPS-F364E | AVD-27-54H3FCH | | | |
| HPS-151 | All the High/Low Static Pressure Ceiling Ducted Units and All Fresh Air IDU 3-10HP | 220-240V/50/60Hz | HPS-F133/363/134/364E | HPS-151 |

# 3D Air-flow Panel

| Panel Model | Applicable Models | Outer Dimensions (H×W×D) | Picture |
|---|---|---|---|
| HP-CB-NA | Ceiling ducted type ( DC / AC low-height ) 0.5-1.3HP | 180×740×70mm |  |
| HP-DB-NA | Ceiling ducted type ( DC / AC low-height ) 1.5-1.8HP | 180×950×70mm | |
| HP-EB-NA | Ceiling ducted type ( DC / AC low-height ) 2-2.5HP | 180×1220×70mm | |

# AirPure Kit

| Model | Power Supply | Applicable Indoor Units | Picture |
|---|---|---|---|
| HJK-ELZA | AC 1Φ, 220V~240V 50/60Hz | 4-Way Cassette Type, Mini 4-Way Cassette Type |  |
| HJK-ELZB | AC 1Φ, 220V~240V 50/60Hz | Ceiling Ducted, Console,Wall Mounted | |

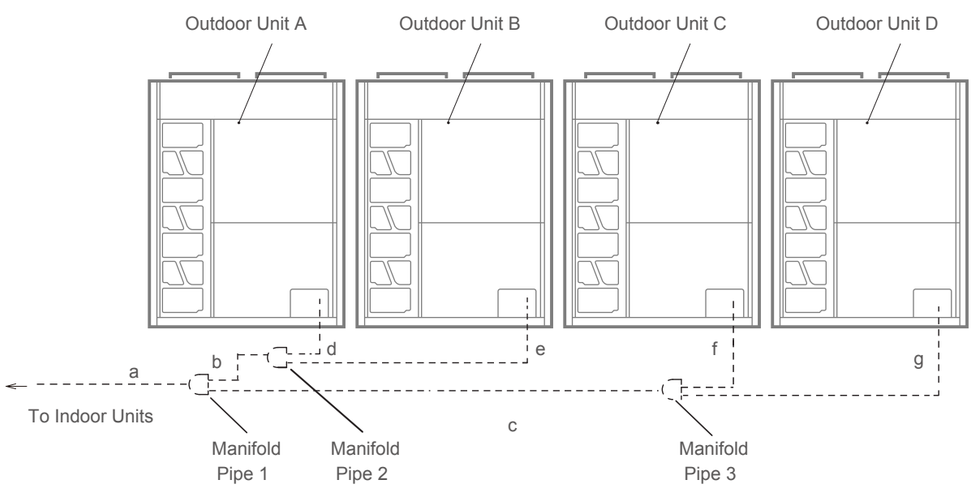
# Voltage Protector

| Model | Power Supply | Dimension（H×W×D） | Picture |
|---|---|---|---|
| HOPT-EOUPA01 | AC 3Φ, 380V~415V/50Hz | 295×222×103mm |  |

# Piping Connection Kit

## Manifold Pipe (For outdoor unit)

(Indoor Unit on Left Side)




### For S Series Heat Recovery 2 Pipes System

| Outdoor Unit | AVWT-290~522FKFSA | AVWT-544FKFSA | AVWT-552~634FKFSA | AVWT-654~794FKFSA | AVWT-816FKFSA | AVWT-824~968FKFSA | AVWT-988~1066FKFSA | AVWT-1088FKFSA |
|---|---|---|---|---|---|---|---|---|
| Manifold Pipe1 | HFQ-M32F | HFQ-M462F | HFQ-M462F | HFQ-M682F | HFQ-M682F | HFQ-M682F | HFQ-M682F | HFQ-M682F |
| Manifold Pipe2 | - | - | HFQ-M32F | HFQ-M32F | HFQ-M462F | HFQ-M32F | HFQ-M462F | HFQ-M462F |
| Manifold Pipe3 | - | - | - | - | - | HFQ-M32F | HFQ-M32F | HFQ-M462F |

### For S Series Heat Recovery System

| Outdoor Unit | AVWT-290~344FKFSA | AVWT-360~522FKFSA | AVWT-544FKFSA | AVWT-552FKFSA | AVWT-570~634FKFSA | AVWT-654~794FKFSA | AVWT-816FKFSA | AVWT-824~968FKFSA | AVWT-988~1066FKFSA | AVWT-1088FKFSA |
|---|---|---|---|---|---|---|---|---|---|---|
| Manifold Pipe1 | HFQ-M212F | HFQ-M302F | HFQ-M462XF | HFQ-M462XF | HFQ-M462XF | HFQ-M682XF | HFQ-M682XF | HFQ-M682XF | HFQ-M682XF | HFQ-M682XF |
| Manifold Pipe2 | - | - | - | HFQ-M212F | HFQ-M302F | HFQ-M302F | HFQ-M462XF | HFQ-M302F | HFQ-M462XF | HFQ-M462XF |
| Manifold Pipe3 | - | - | - | - | - | - | - | HFQ-M302F | HFQ-M302F | HFQ-M462XF |

### For S Series System

| Outdoor Unit | AVWT-290~422HKSS | AVWT-444~544HKSS | AVWT-552~634HKSS | AVWT-654HKSS | AVWT-676~816HKSS | AVWT-824~886HKSS | AVWT-908~1088HKSS |
|---|---|---|---|---|---|---|---|
| Manifold Pipe1 | HFQ-M32F | HFQ-M462F | HFQ-M462F | HFQ-M682F | HFQ-M682F | HFQ-M682F | HFQ-M682F |
| Manifold Pipe2 | - | - | HFQ-M32F | HFQ-M32F | HFQ-M462F | HFQ-M462F | HFQ-M462F |
| Manifold Pipe3 | - | - | - | - | - | HFQ-M32F | HFQ-M462F |

### For X Series System

| Outdoor Unit | AVWT-172~229UESZX | AVWT-250~307UESZX | AVWT-324~386UESZX | AVWT-404~460UESZX | AVWT-480~620UESZX |
|---|---|---|---|---|---|
| Manifold Pipe1 | HFQ-M22F | HFQ-M32F | HFQ-M32F | HFQ-M32F | HFQ-M462F |
| Manifold Pipe2 | - | - | HFQ-M22F | HFQ-M32F | HFQ-M32F |
| Manifold Pipe3 | - | - | - | - | HFQ-M32F |

## Branch Pipe (For indoor unit)

## First Branch Pipe

### For S Series Heat Recovery 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 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 |

### For S Series System

| Outdoor Unit HP | 8 to 10 | 12 to 16 | 18 to 24 | 26 to 44 | 46 to 66 | 68 to 112 |
|---|---|---|---|---|---|---|
| Branch Pipe | HFQ-102F | HFQ-162F | HFQ-242F | HFQ-302F | HFQ-462F | HFQ-682F |

### For X Series System

| Outdoor Unit HP | 8 to 10 | 12 to 16 | 18 to 24 | 26 to 48 | 50 to 64 |
|---|---|---|---|---|---|
| Branch Pipe | HFQ-102F | HFQ-162F | HFQ-242F | HFQ-302F | HFQ-462F |

# First Branch Pipe~Last Branch Pipe

## For S Series Heat Recovery 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 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 | 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-462XF |

## For S Series 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 33.99 | 34 to 45.99 | 46 to 58.99 | 59 to 68.99 | Over 69 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 X Series System

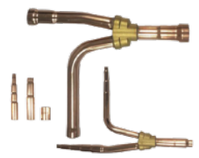
| Total Indoor Unit Hp | Lower than 6 | 6 to 8.99 | 9 to 11.99 | 12 to 15.99 | 16 to 17.99 | 18 to 25.99 | 26 to 35.99 | 36 to 47.99 | 48 to 57.99 | 58 to 64 |
|---|---|---|---|---|---|---|---|---|---|---|
| Gas( mm) | 15.88 | 19.05 | 22.2 | 25.4 | 28.6 | 28.6 | 31.75 | 38.1 | 41.3 | 44.5 |
| Liquid( mm) | 9.53 | 9.53 | 9.53 | 12.7 | 12.7 | 15.88 | 19.05 | 19.05 | 22.2 | 22.2 |
| Branch Pipe | HFQ-102F | HFQ-102F | HFQ-102F | HFQ-162F | HFQ-162F | HFQ-242F | HFQ-302F | HFQ-302F | HFQ-462F | HFQ-462F |

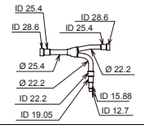
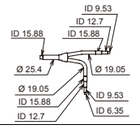
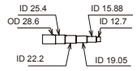
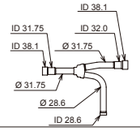
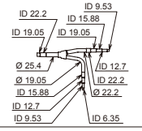
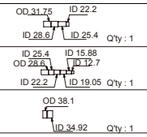
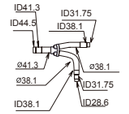
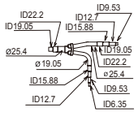
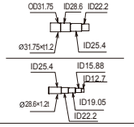
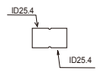
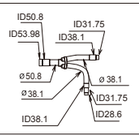
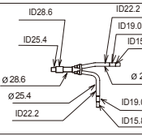
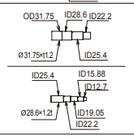
# Last Branch Pipe~Indoor Unit

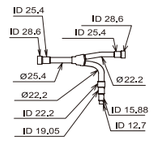
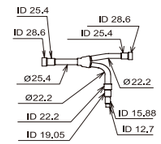
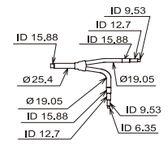
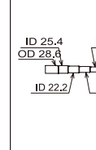
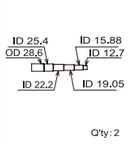
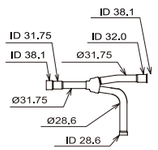
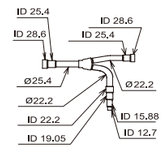
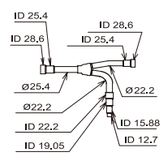
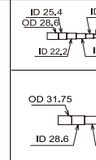
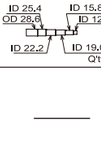
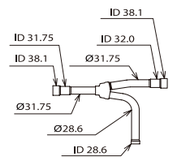
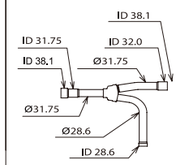
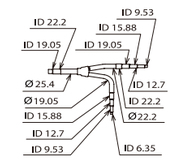
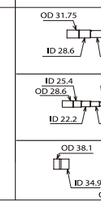
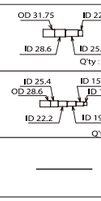
| Indoor Unit | Pipe Size (Φmm) | | Max. Liquid Pipe Length |
|---|---|---|---|
| | Gas Pipe | Liquid Pipe | |
| 7kBtu/h~14kBtu/h | 12.7 | 6.35*1 | 40 |
| 17kBtu/h~18kBtu/h | 15.88 | 6.35*1 | 40 |
| 22kBtu/h~54kBtu/h | 15.88 | 9.53 | 40 |
| 76kBtu/h | 19.05 | 9.53 | 40 |
| 96kBtu/h | 22.2 | 9.53 | 40 |

Notes 1. When liquid pipe length of indoor unit(07~18kBtu/h) is more than 15m, please change the liquid pipe dimension from Φ6.35 into Φ9.53.

# Manifold Pipe Parameter

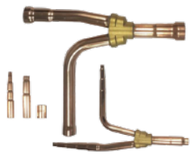


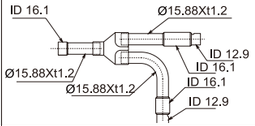
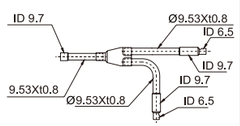
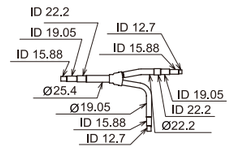
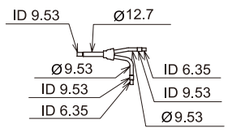
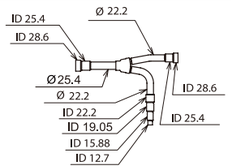
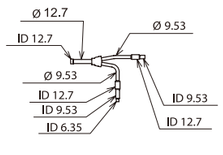
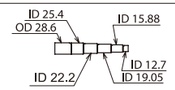
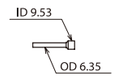
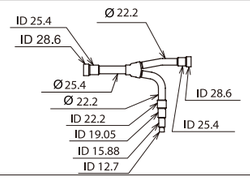
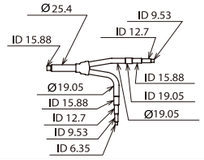
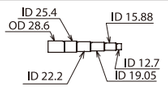
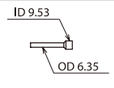
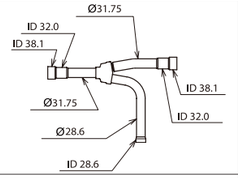
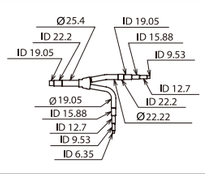
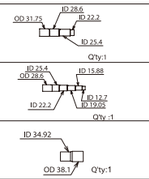
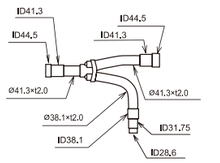
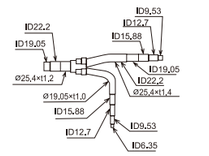
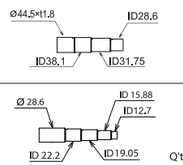
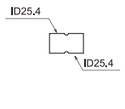
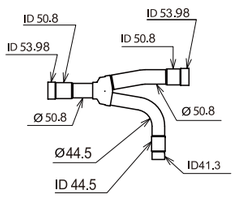
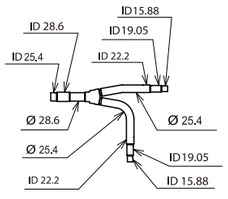
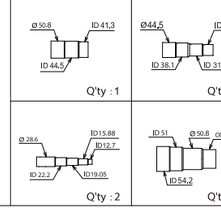
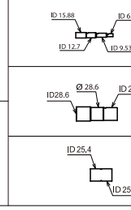
| Model | Gas Line | Liquid Line | Reducer for Gas Line | Reducer for Liquid Line |
|---|---|---|---|---|
| HFQ-M22F |  |  |  | — |
| HFQ-M32F |  |  |  | — |
| HFQ-M462F |  |  |  |  |
| HFQ-M682F |  |  |  | |

| 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 |  |  |  |  |  | — |
| HFQ-M212F |  |  |  |  |  | — |
| HFQ-M302F |  |  |  |  |  | — |

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

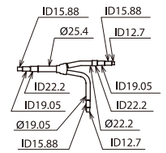
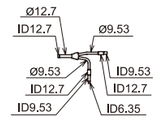
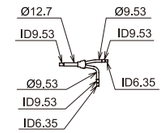
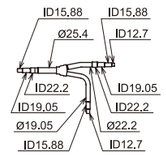
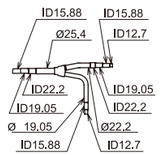
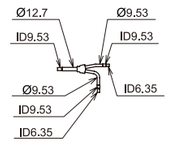
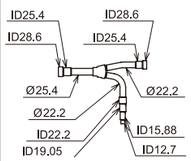
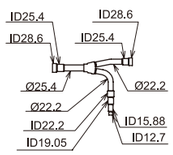
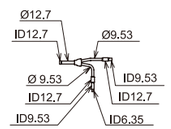
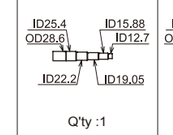
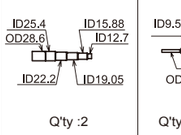
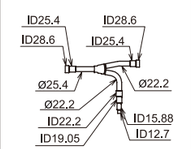
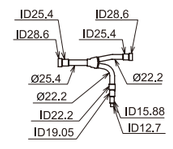
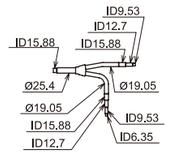
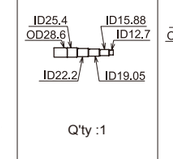
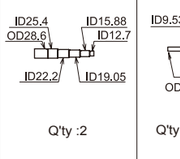
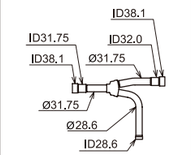
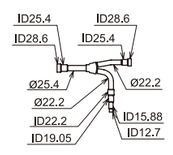
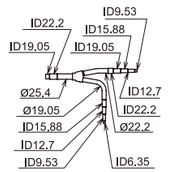
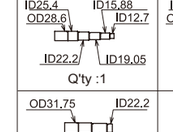
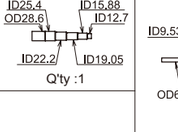
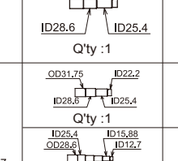
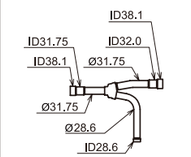
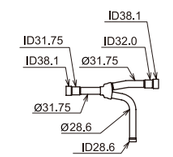
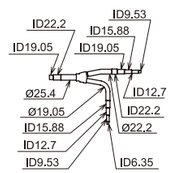
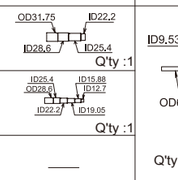
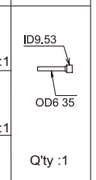
## Branch Pipe Parameterer



| Model | Gas Line | Liquid Line | Reducer for Gas Line | Reducer for Liquid Line |
|---|---|---|---|---|
| HFQ-052F |   |   | | |
| HFQ-102F |   |   | —— |   Q'ty : 2 |
| HFQ-162F |   |   |   Q'ty: 1 |   Q'ty: 1 |
| HFQ-242F |   |   |   Q'ty: 1 |   Q'ty: 1 |
| HFQ-302F |   |   |   |   Q'ty: 1 |
| HFQ-462F |   |   |   Q'ty : 2 |   |
| HFQ-682F |   |   |   |   |

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 |   |   |   | —— | —— |   Q'ty :2 |
| HFQ-M282F |   |   |   | —— | —— |   Q'ty :2 |
| HFQ-M452F |   |   |   |   Q'ty :1 |   Q'ty :2 |   Q'ty :1 |
| HFQ-M562F |   |   |   |   Q'ty :1 |   Q'ty :2 |   Q'ty :1 |
| HFQ-M692F |   |   |   |   Q'ty :1 |   Q'ty :1 |   Q'ty :1 |
| | | | |   Q'ty :1 | —— | |
| HFQ-M902F |   |   |   |   |   |   Q'ty :1 |

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

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