

**Hisense VRF**

**Hisense**



**Hi-FLEXi S mavo**

Cooling Only



Qingdao Hisense HVAC Equipment Co., Ltd.  
Hisense Tower, Qingdao, China



HCAC-CA-SCO202301

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## Hisense SINCE 1969

Hisense is a well-known large-scale electronic information industrial group. With strong emphasis on technology and innovation, its efficient technological innovation system firmly grounds Hisense at the forefront of its peers. At present, Hisense brand family has expanded to include multiple famous brand Hisense, Toshiba, Gorenje and ASKO.

SINCE 1969

## BUSINESS LAYOUT

### Multimedia

- TV and Display Devices
- Internet TV Operation
- Mobile Communication Devices
- Optical Communication Devices
- Chip



### Household Appliances

- Refrigerator
- Freezer
- Air-conditioner
- Washing Machine
- Kitchen Appliance



### IT Smart Systems

- Smart City
- Smart Community
- Smart Transportation
- Smart Business
- Medical Electronic Devices
- Smart Home System and Service



### Real Estate & Modern Services

- Real Estate
- High-end Plaza Chains
- Mould Design and Manufacturing
- Finance
- Trade





# GLOBAL HISENSE SINCE 1969

Hisense has started a long-term sports marketing strategy to increase brand awareness worldwide. After the successful sponsorship of **UEFA EURO 2016&2020** and **FIFA WORLD CUP 2018**, Hisense has made clear its focus on football. And now, Hisense becomes the official partner of **FIFA WORLD CUP 2022**.

A horizontal timeline showing six key milestones in Hisense's sports marketing strategy:

- 2014:** Official Sponsor of the Australian Open (Image of a tennis court).
- 2015:** Team Supplier to Red Bull Racing (Image of a Red Bull Formula 1 car).
- 2016:** Official Partner of UEFA EURO 2016 (Image of soccer players).
- 2018:** Official Sponsor of the 2018 FIFA World Cup (Image of soccer players).
- 2020:** Official Partner of UEFA EURO 2020 (Image of the UEFA EURO 2020 logo with text: "Hisense | EURO2020 | OFFICIAL PARTNER OF UEFA EURO 2020").
- 2022:** Official Sponsor of the 2022 FIFA World Cup (Image of the FIFA World Cup Qatar 2022 logo with text: "Hisense | FIFA WORLD CUP Qatar 2022 | OFFICIAL SPONSOR").





# Hisense HVAC MANUFACTURING BASE

Qingdao Hisense HVAC Equipment Co. Ltd. is a leading manufacturer of heating, ventilation, air conditioning and other HVAC equipments, integrated with the product development, manufacturing, sales and after-sales service as a whole.

Hisense HVAC always regards product technology research and development as the most important value. With strong ability of technological innovation, Hisense HVAC has participated in the formulation and revision of 86 national standards, industry standards and association standards, and boasts 1440 authorized patents in the field of CAC and heat pump products. With the great support of all shareholders and customers, Hisense HVAC is expected to become the leading brand in the industry.

Note: The above data is as of Dec. 31th, 2022.



266,000 m<sup>2</sup>  
Manufacturing Area



40+  
Production Line



6,000,000 units/year  
Production Capacity



16,700 m<sup>2</sup>/70+  
Laboratory





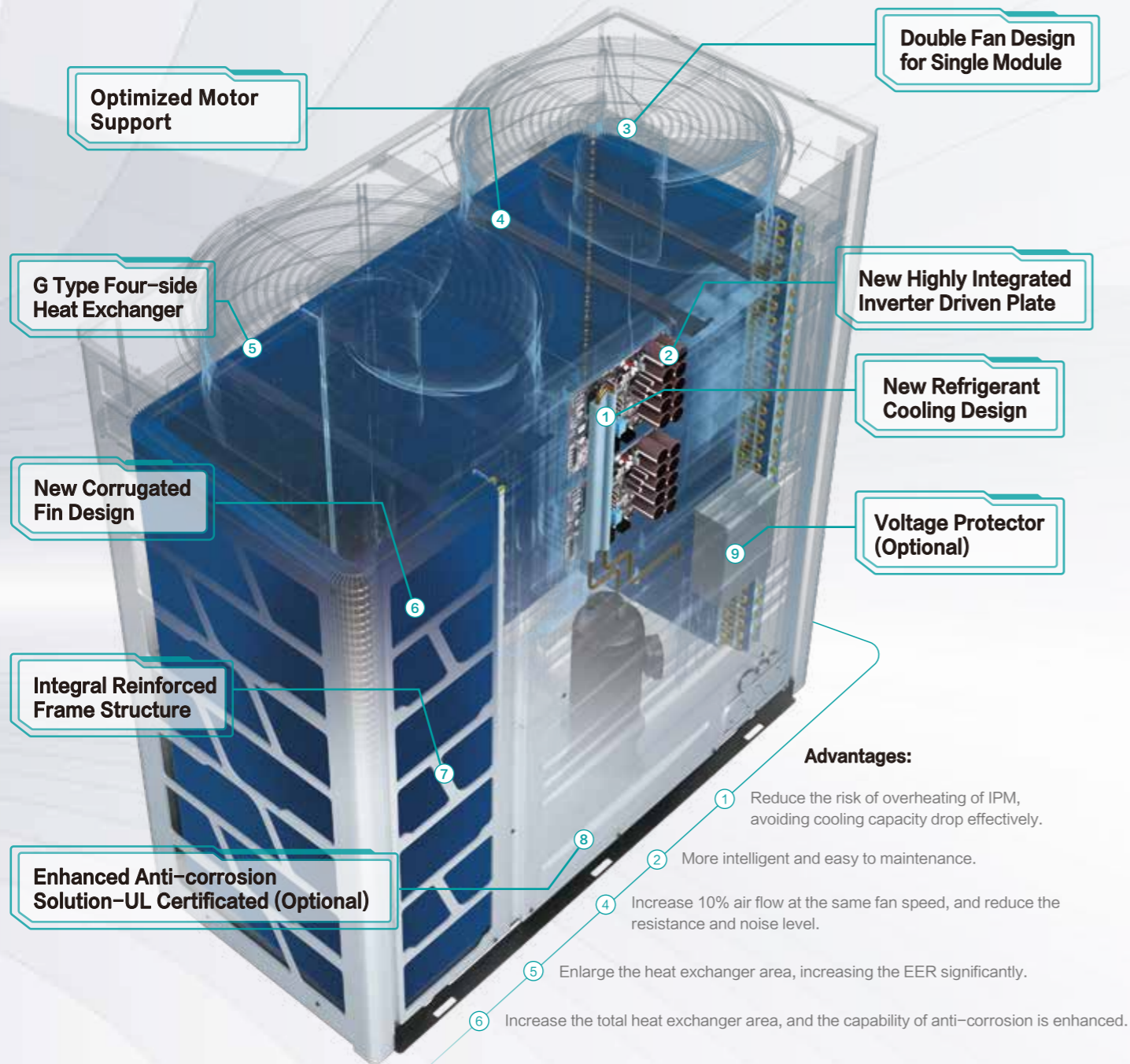
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# Brand-new Upgrade



## New Structure

New structure with integrated sheet metal shell is developed. While achieving more beautiful appearance, the frame is more firm and anti-impact. Meanwhile, the G type four-side heat exchanger is newly applied.

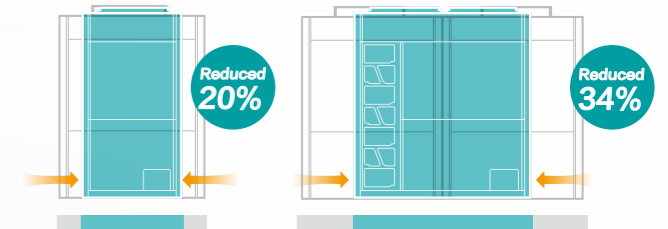
### Capacity of Single Module Increased up to 28HP

For the single module (from 14HP to 28HP), new four-side all round heat exchanger and double-fan design ensure a good heat exchange performance. New single modules ranging from 18HP to 28HP are available, and combined modules' capacity is increased up to 112HP, which can better meet the demands of large projects.



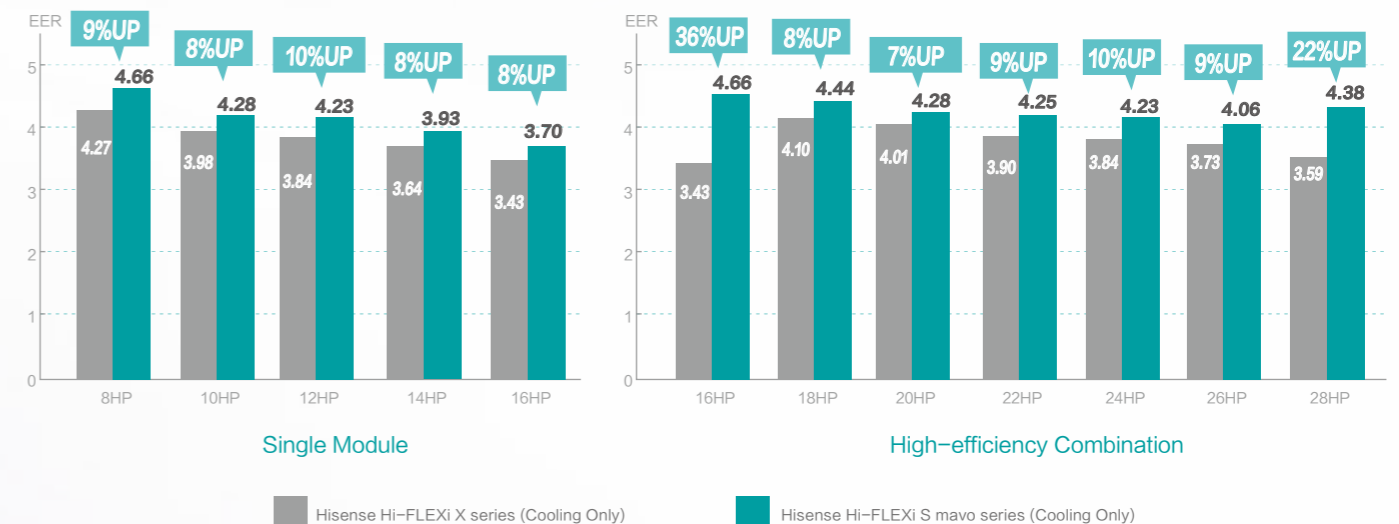
### Compact Body Design, Reduced Footprint

There is less limit of installation thanks to its compact body design. Taking 12HP single module as an example, the footprint is reduced by 20%. While for the unit of 28HP, the footprint is reduced by 34%.



## Enhanced EER

Through the optimization and upgrading of key components such as compressor and heat exchanger, as well as the state-of-the-art technologies application, the overall energy efficiency of S mavo series cooling only unit has been increased by up to 10%. What's more, a new high-efficiency lineup is available through optimized module combination, ensuring a higher efficiency operation.





# High Reliability

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- Patented 360° Fitted Refrigerant Cooling Technology
- Oil Balance
- Double Rotative Operation
- Triple Backup Operation
- Enhanced Anti-corrosion Solution (Optional)
- Wider Operation Temperature
- Automatic Restart
- Insect Protection of Electrical Box
- Voltage Protector Reserved (Optional)
- Independent Maintenance of Indoor Units
- Condensate Water Leakage Protection

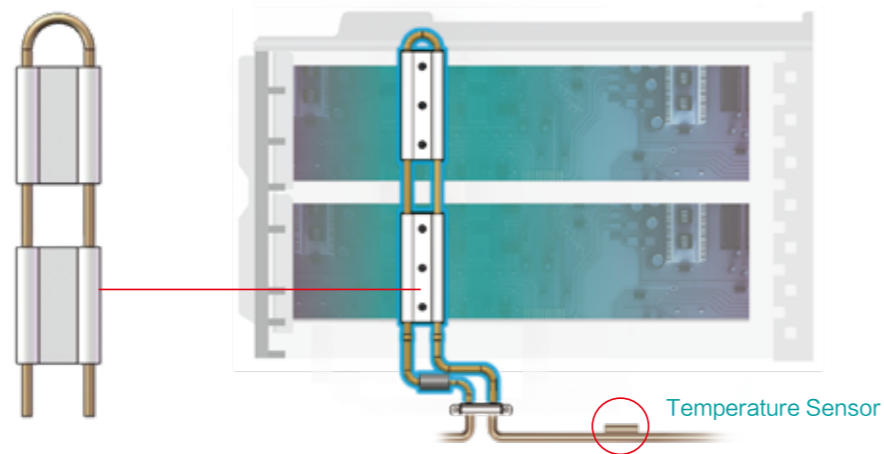
COOLING ONLY



## Patented 360° Fitted Refrigerant Cooling Technology

Hi-FLEXi S mavo cooling only unit uses refrigerant cooling technology to cool the electrical control box. It overcomes the poor heat dissipation and high ambient temperature issues to maintain efficient operation even at harsh environment. Compared with air-cooled technology, the temperature inside the electrical box can be reduced by up to 20%\*. Moreover, the refrigerant cooling kit adds a temperature sensor, which could be more precise to control the refrigerant cooling temperature and ensure the whole reliability.

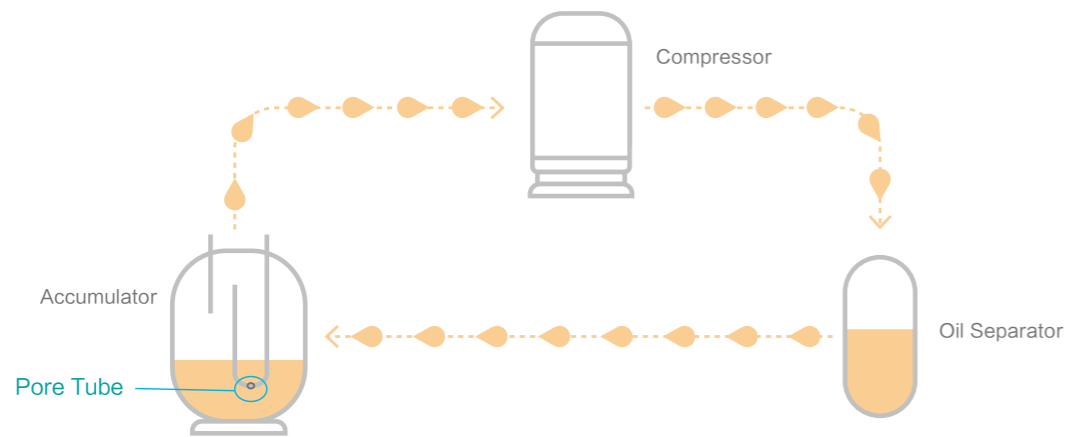
\* The data is based on the S mavo cooling only unit under low fan speed operation.



## Oil Balance

### Oil Return

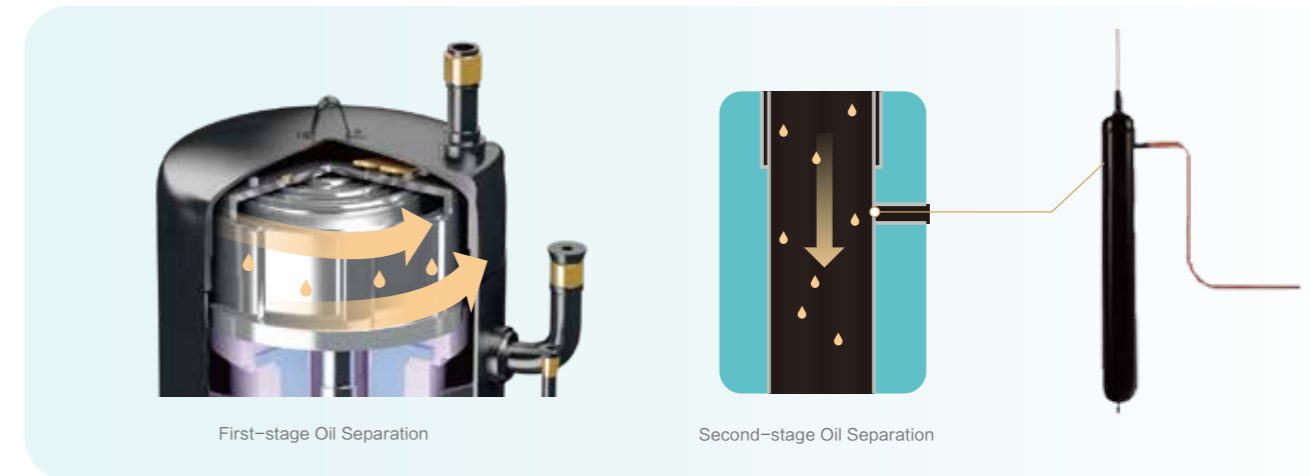
The accumulator adopts pore tube oil return technology with a built-in fine strainer, which not only ensures oil balance between compressors within one module, but also plays an important role in the oil balance between modules. Besides this, the system implements oil-return function based on compressor frequency and corresponding operation time. The oil-return takes 60 seconds and can return to previous condition when finished.



## Oil Separation

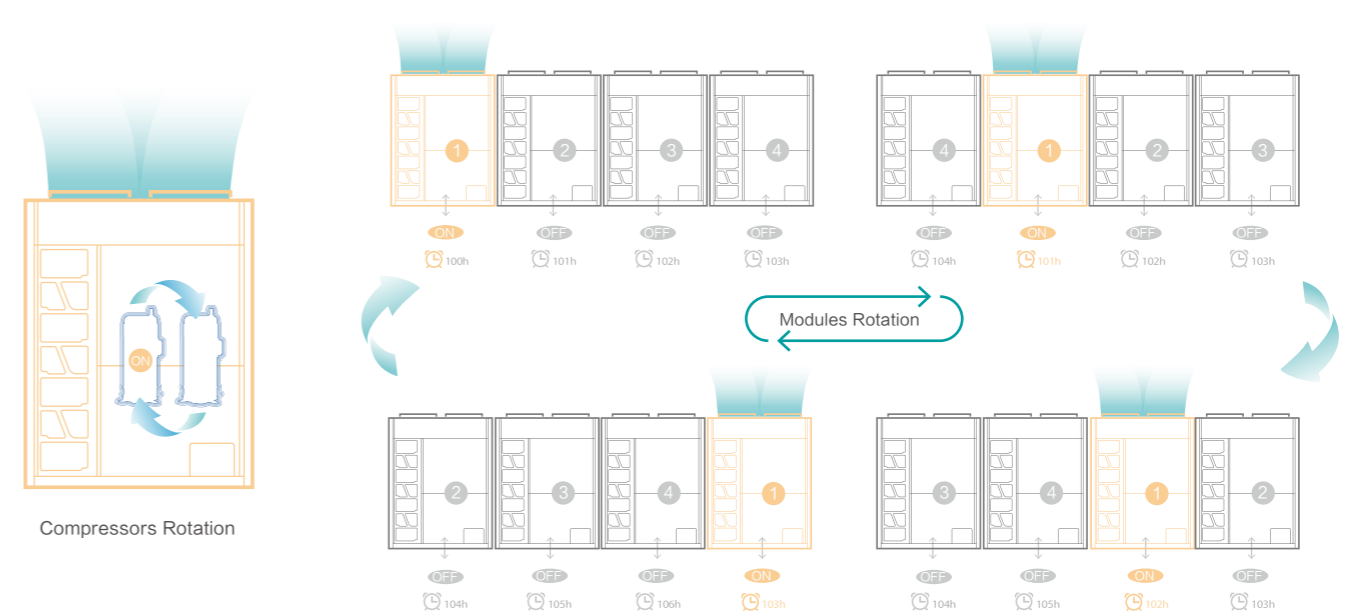
First-stage oil separation is realized through efficient oil separation structure inside the high-pressure-chamber compressor. Only a small amount of oil is brought out of the compressor.

During the 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%.



## Double Rotative Operation

The double rotative operation technology will effectively balance the operation time between the modules and balance the time between the compressors of the single module, which prevent the occurrence of individual unit overworked and hence extending the overall operating life of the overall system.





## Triple Backup Operation

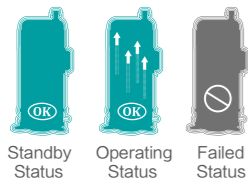
### Module Backup Operation

If one module in a combination system malfunctions, the other ones can still keep working to ensure an emergency operation until service and repair.



### Compressor Backup Operation

In the single module system equipped with two compressors, if one compressor malfunctions, the other one can provide emergency operation. In the combined modules, if the compressor in one module goes wrong, the other modules can provide emergency operation. Thus a stable and continuous operation can be ensured thanks to the backup of compressors.



Compressor Backup



Outdoor Unit Backup

### Fan Backup Operation

For the module equipped with two fans, if one fan breaks down, the other one won't be influenced, the module can still keep working.



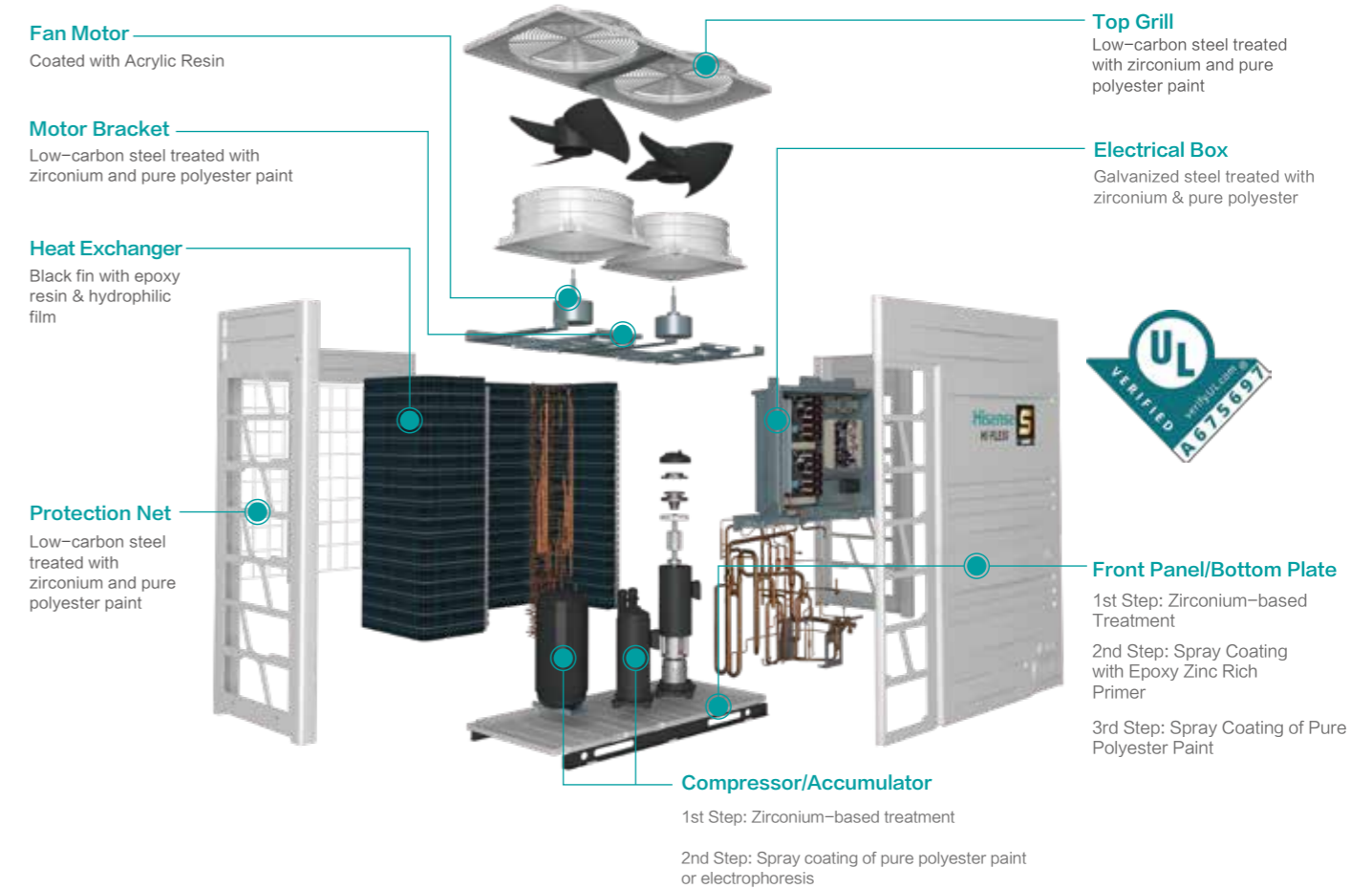
Single Module System



Combined Modules System

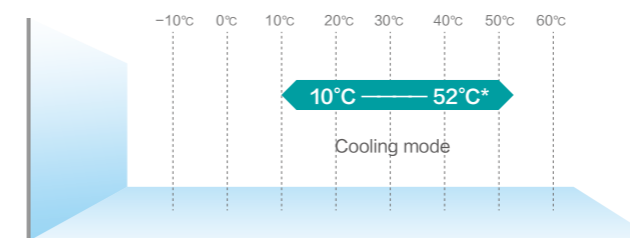
## Enhanced Anti-corrosion Solution (Optional)

The complete corrosion-proof solution of S mavo series cooling only unit is your optimal 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 the Hisense anti-corrosion solution has already got the UL certification.



## Wider Operation Temperature

Extended operation range creates wider application potential. Hi-FLEXI S mavo series cooling only unit can working stably from 10°C to 52°C, which adapts to many extreme conditions.

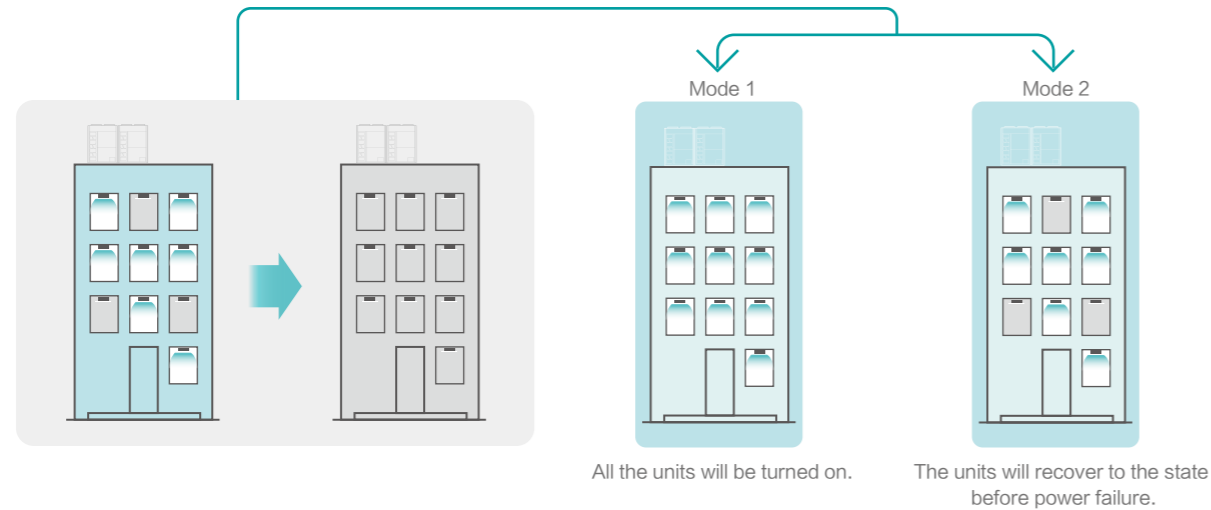


Note: When the ambient temperature is between 48°C to 52°C, the system may be in intermittent operation state. Please consult with local engineers.



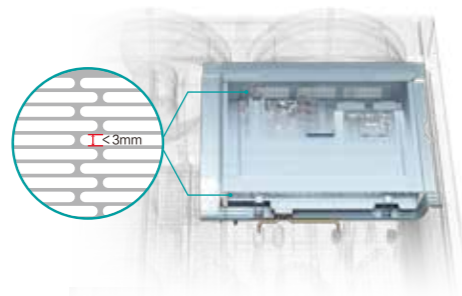
### Automatic Restart

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.



### Insect Protection of Electrical Box

The electric box is well designed. It can effectively prevent small insects from entering while ensuring good heat dissipation. The gap of the heat emission hole is less than 3mm.



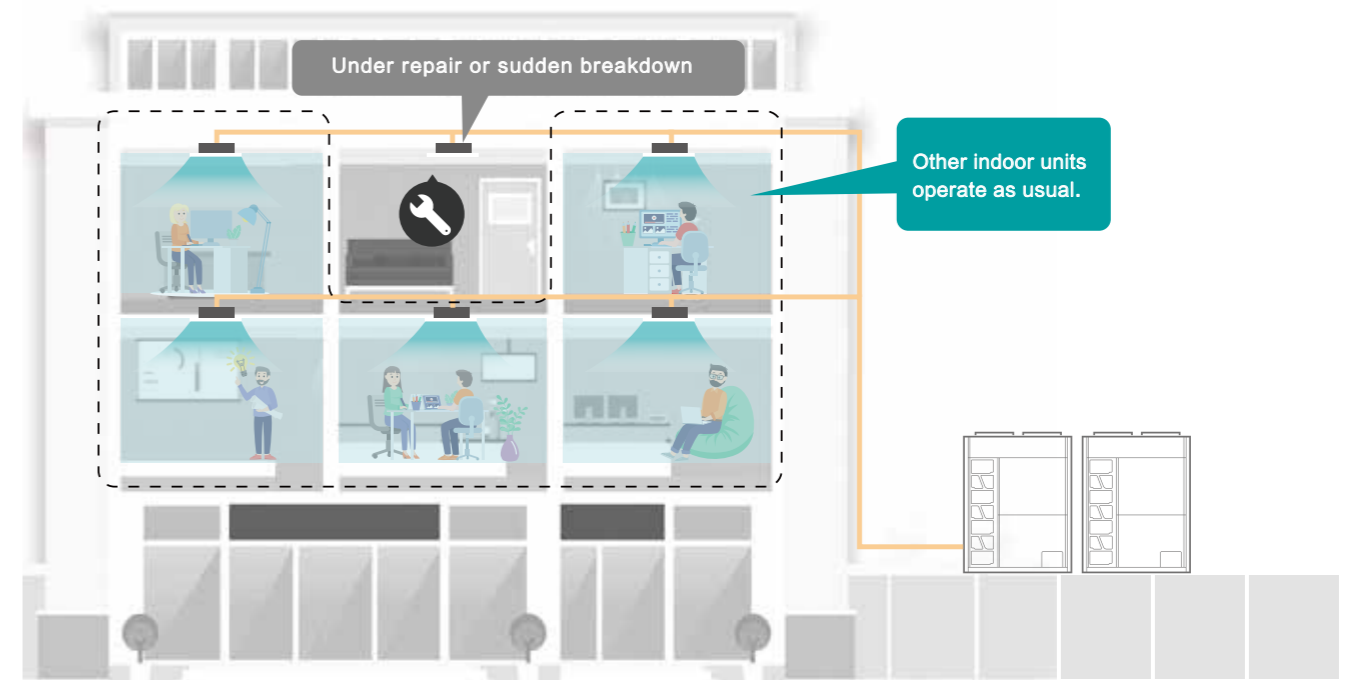
### Voltage Protector Reserved (Optional)

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. The power supply of outdoor unit will be automatically cut off when there is abnormal voltage, and will be restored when power supply returns to normal after 30s. Meanwhile, it's helpful for checking the phase sequence error or phase loss according to the indicator lights, convenient for commission and maintenance.



### Independent Maintenance of Indoor Units

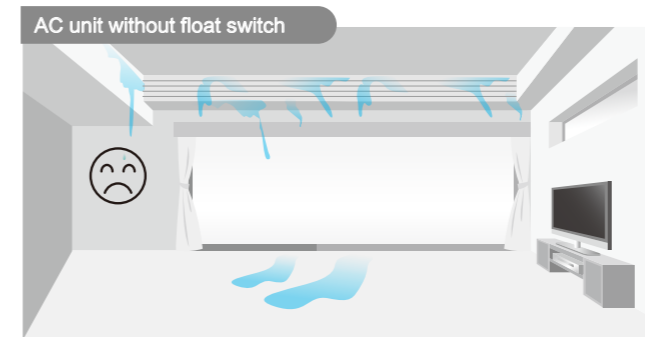
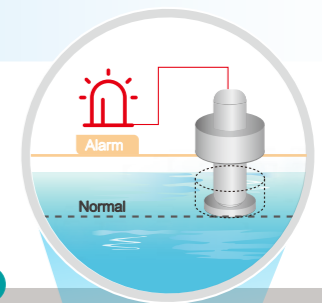
To maintain the whole system's continuous operation even when there is a breakdown occur within a system, HI-FLEXI S mavo series cooling only system is capable to isolate the malfunction unit from the others while conducting restoration and maintaining continuous operation of other units simultaneously.



\*Preliminary setting is unnecessary

### Condensate Water Leakage Protection

Indoor units have built-in water-leakage float switches. Alarming warning will be displayed on the controller when condensate reaches a certain level. Save your ceiling and carpet from being soaked in time when drain pipe is clogged or drain pump breakdown.



# High Efficiency

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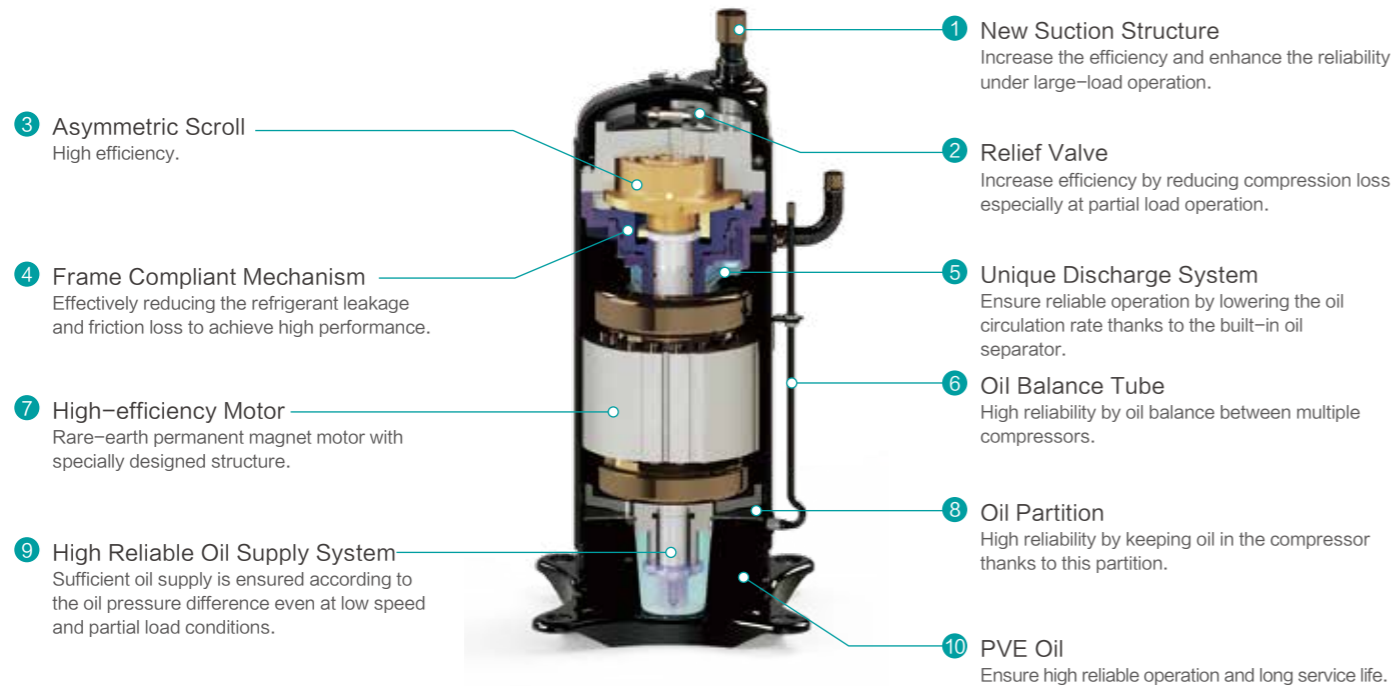
- High-efficiency Compressor
- Auto Refrigerant Temperature Control (ART)
- New Heat Exchanger Design
- High-efficiency Subcooling Technology
- Stepless Fan-speed Control

COOLING ONLY



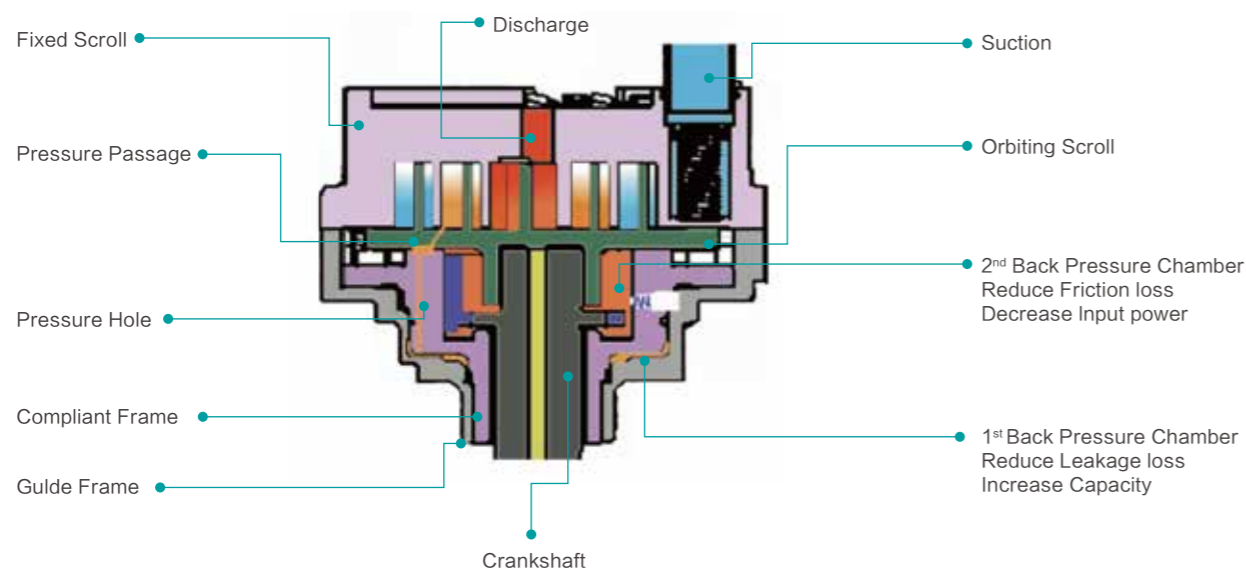
## High-efficiency Compressor

Hi-FLEXI S mavo series cooling only unit adopts a new generation of scroll compressor, and it has an excellent mechanism called as FCM (Frame Compliant Mechanism) which will optimally increase the performance of the whole compressor, especially for operation under low load.



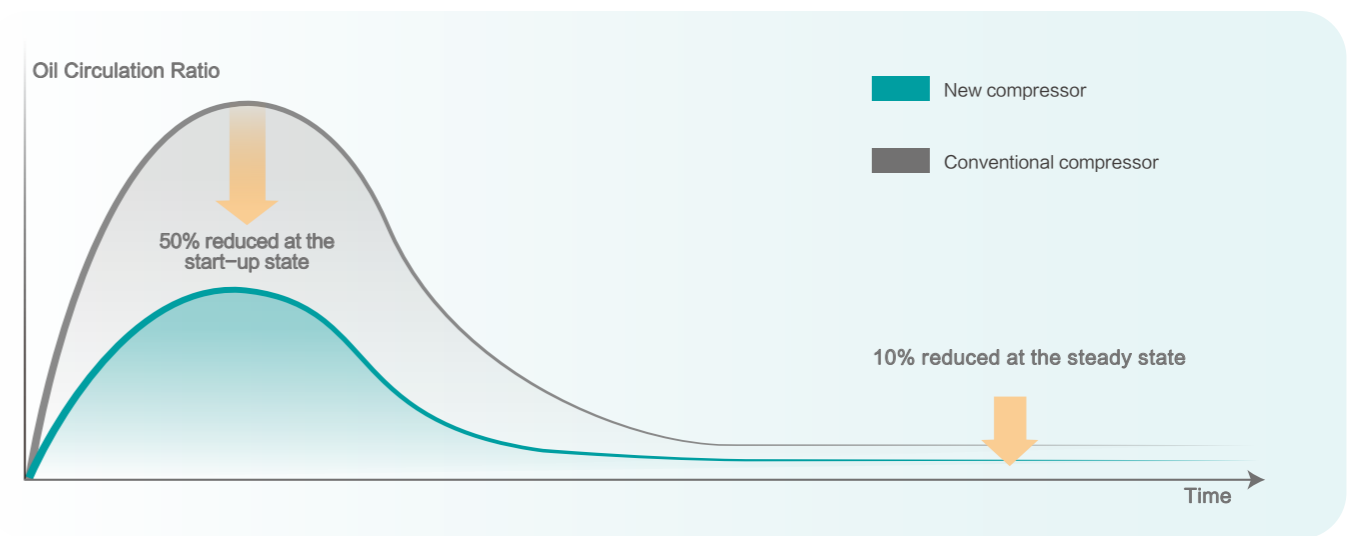
## Two-stage Back Pressure Control

There are two-stage back pressure control mechanism inside the compressor. The back pressure could force the tightness between movable and static scrolls, reducing the refrigerant leakage during low-load operation and ensuring a stable and efficient low-load operation.



## Low Oil Circulation

Oil remaining in the piping system can cause performance drop. The new compressor has a special structure design called "oil cup" for reducing the percentage of oil circulation outside the compressors. The oil circulation ratio for the new compressor can be reduced by 50% and 10% during the start-up and stable working stage respectively, compared to conventional compressor.



## Auto Refrigerant Temperature Control (ART)

Hisense VRF system featured with ART technology can meet the indoor loads more accurately at a higher efficiency. The system adjusts the evaporating temperature (Et) according to actual indoor loads automatically in a wide range. The Et is raised to minimize the difference with the condensing temperature when the air-conditioning load is low, thus further improving the energy efficiency.

### Features:

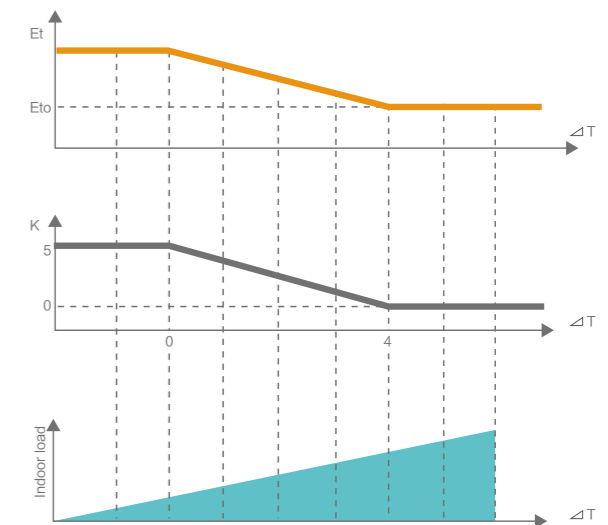
- 1) Energy efficiency is improved without sacrificing comfort.
- 2) ART is particularly efficient under low-load operation.
- 3) The initial evaporation temperature can be adjusted between 2-11°C, which is the widest in the market.
- 4) Realize rapid cooling with lower evaporating temperature.
- 5) Avoiding cold draft with higher evaporating temperature.

$$Et = Et_0 + K$$

Et: Evaporation temperature

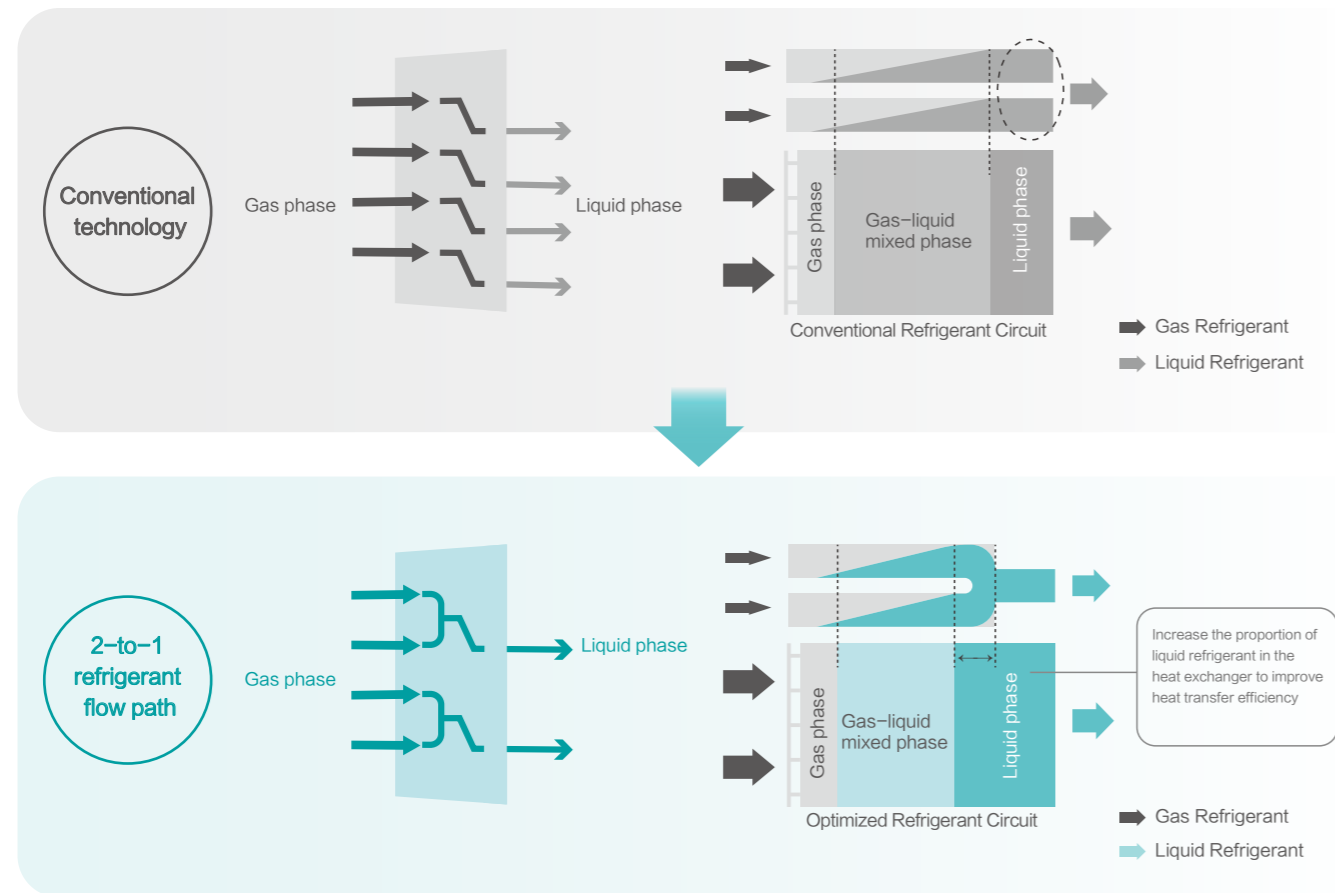
Et<sub>0</sub>: The initial evaporation temperature

ΔT: The temperature difference between air inlet and the setting temperature



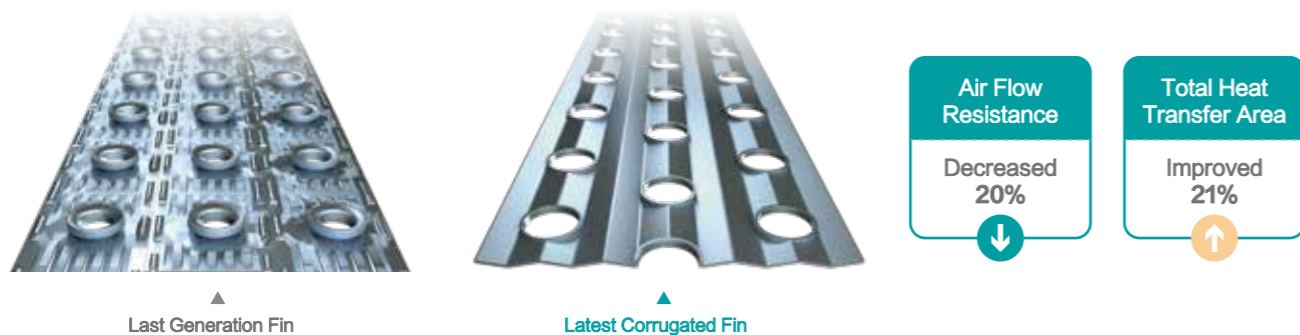
## New Heat Exchanger Design

### Optimized Refrigerant Circuit



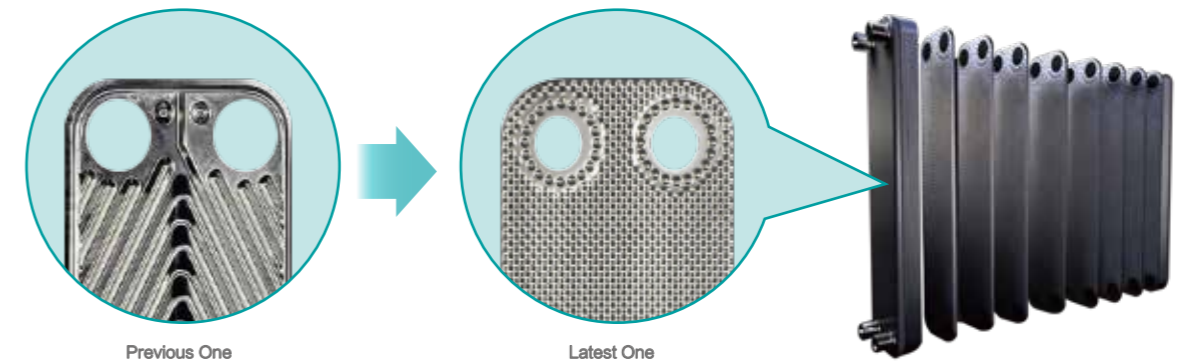
### New Advanced Corrugated Fin Design

The new advanced corrugated fins are applied in the heat exchanger. With this new design, larger amount of fins can be allocated into the heat exchanger, increasing 21% heat exchange surface area. Also the air flow resistance is largely reduced by 20%, thus the heat exchange efficiency is improved greatly.



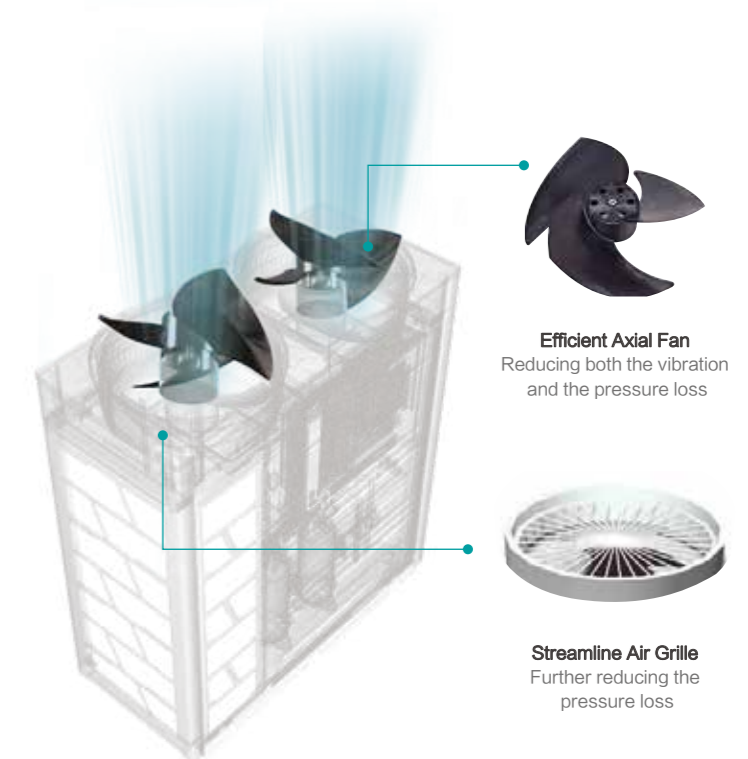
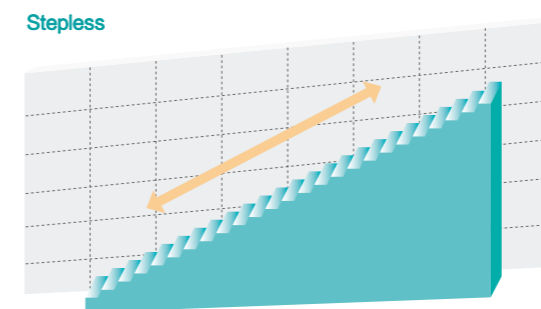
## High-efficiency Subcooling Technology

Hi-FLEXi S mavo series cooling only unit adopts new high-efficiency plate heat exchanger while heat exchange capacity increased by 35% and the volume of the plate heat exchanger is decreased by 65.5% under the same heat exchange capacity, compared with the conventional one. Together with the optimized heat exchanger, the total subcooling of the system can be up to 27°C.



## Stepless Fan-speed Control

The DC inverter motor equipped in the outdoor unit can realize stepless fan-speed adjustment to ensure system efficiency and stability. Hi-FLEXi S mavo series cooling only unit optimizes the motor support structure, which can increase 10% air volume at the same speed and reduce the noise greatly.



- The stability of discharge pressure and suction pressure of compressor is assured.
- The allocation of refrigerant is more stable, and the capacity output of indoor unit is assured.
- Response to the fluctuation of air-conditioning load quickly and accurately.



# Comfort

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- **VIP Mode**
- **Clean and Fresh Air**
- **Precise Temperature Control**
- **Smart Air Flow**
- **Top Class Low-noise Control**

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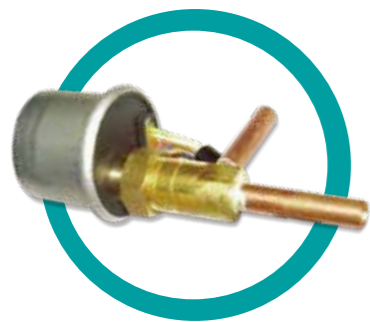
## VIP Mode

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 air conditioners in the presidential suite are often set to VIP mode.

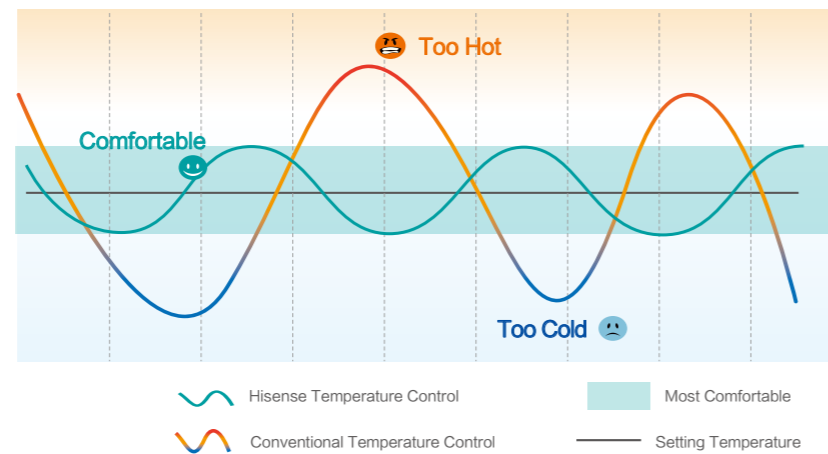


## Precise Temperature Control

There are multiple temperature sensors equipped in the system, which will be very helpful to judge the indoor load more accurately. Also the 2000-step EEV is specially adopted to ensure precise refrigerant flow adjustment according to the actual load of indoor units, achieving a more comfortable indoor environment with small temperature fluctuation.



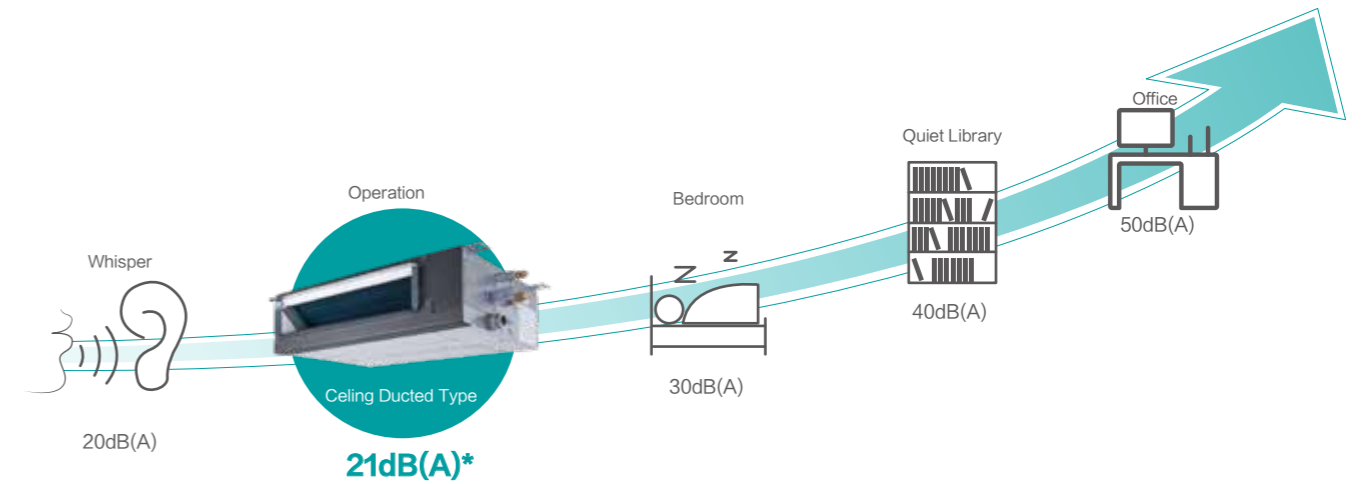
2000-step EEV



## Top Class Low-noise Control

### Low Noise for Indoor Unit

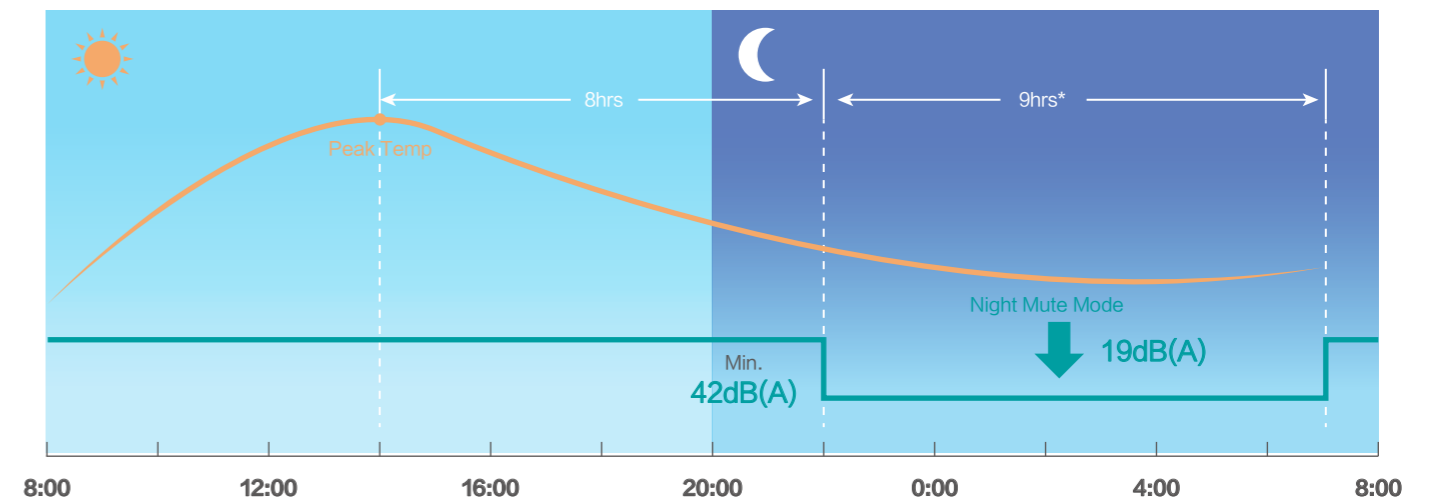
Noise is often a pain in the neck. Hisense indoor units can provide more quiet environment to users, with sound pressure level as low as 21dB(A), which perfectly blends into library, auditorium and hospital room where require sound level lower than 25dB(A).



\*The DC ceiling ducted type (AVE-05HJFDL) can achieve the 21dB(A) under the standard test condition.

### Outdoor Unit Night Quiet Mode

In general, people are more sensitive to noise at night. To provide more quiet environment, night quiet mode function of outdoor units can be adopted to reduce sound pressure level by up to 19dB(A).



\*The night mute mode can last for 8hrs, 9hrs or 10hrs according to the setting. Take AVWT-96CKFSE as an example.

— Temp Change Curve      — Noise Change Curve



## Clean and Fresh Air

### 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. With the AirPure kit, the indoor unit has got the Tick Mark certification for air-conditioning sterilization products.



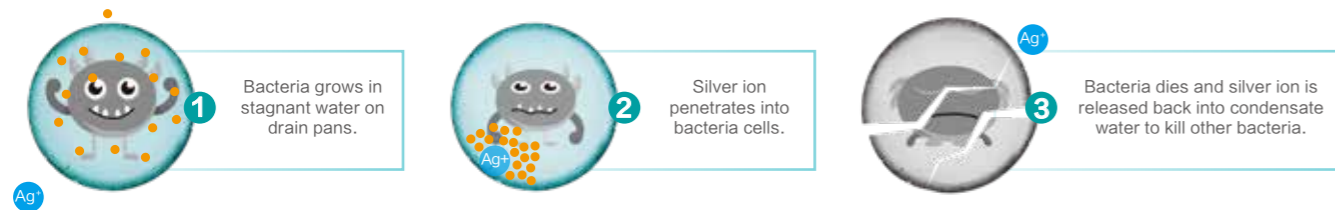
\*Take AVE-09HCFL as the test sample.

Note: 4-way Cassette, Mini 4-way Cassette, Console and Ceiling Ducted can be equipped with the AirPure kit.



### Silver Ionizer (Optional)

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



Note: 4-way Cassette and Mini 4-way Cassette are available for the function.

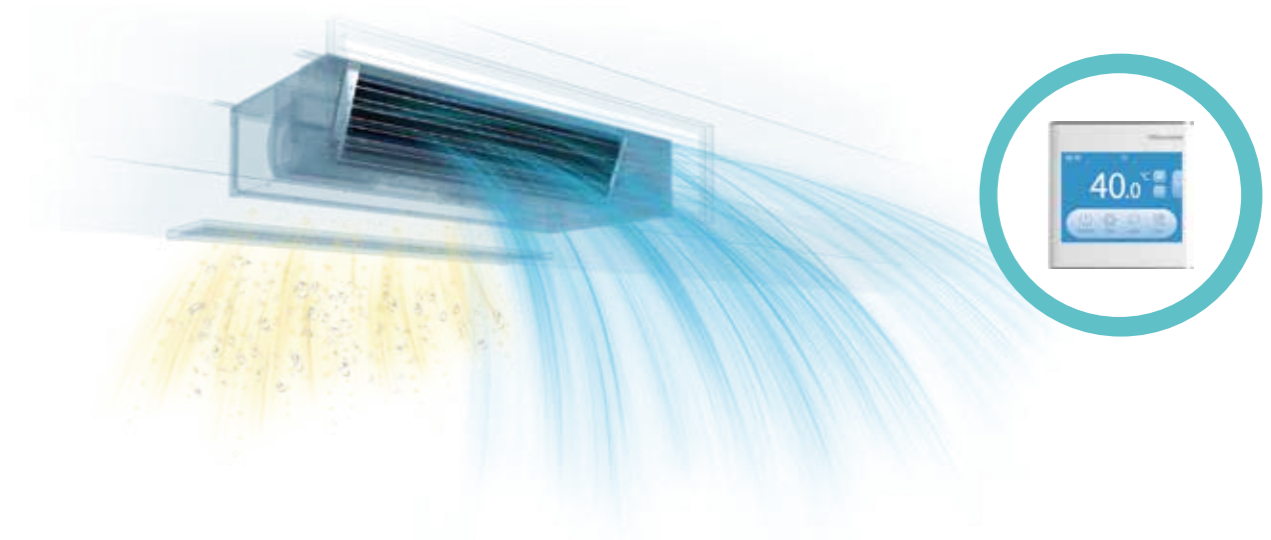
### Fresh Air Intake

Hisense VRF indoor units are 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. These indoor units include 4-way cassette, mini 4-way cassette, 2-way cassette, 1-way cassette, AC/DC low height ceiling ducted, low/high static pressure ceiling ducted and console.



### Humidity Sensor (Optional)

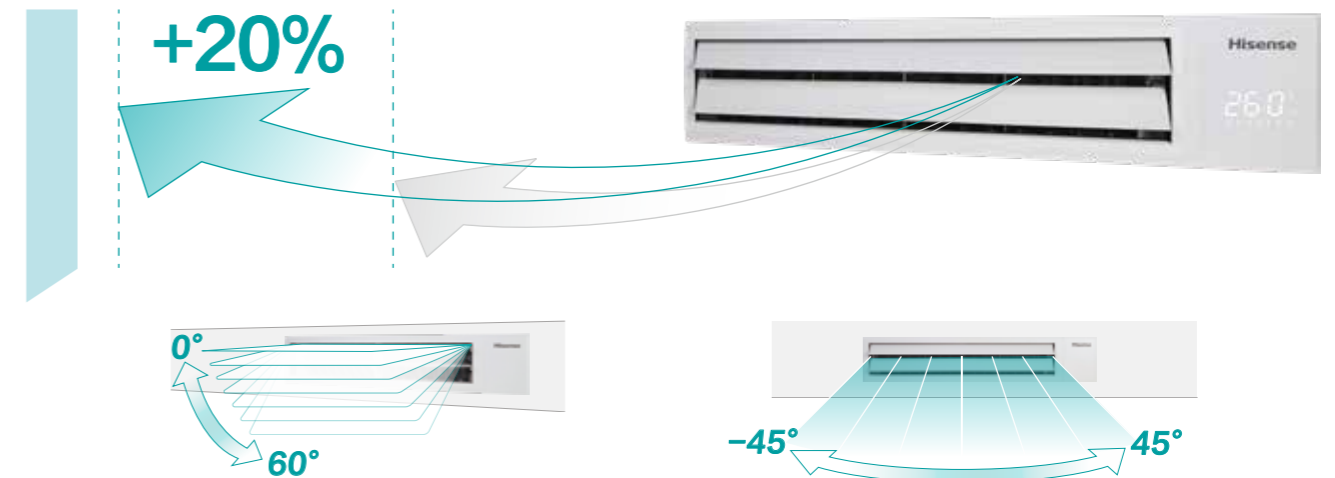
To keep up with the indoor quality requirements, Hisense VRF offers auto dehumidification function and it can be achieved by choosing a humidity sensor, and the control range is from 35% to 90%.



## Smart Air Flow

### 3D Air-flow Panel (Optional)

The panel is an optional accessory for low height ceiling ducted indoor unit. By using Hisense's luxurious looking, smooth, easy to clean 3D air-flow panel, it saves the hassle in buying normal louvers. It has LED temperature and humidity level display which is perfect for various applications. It also has selectable wind setting 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.



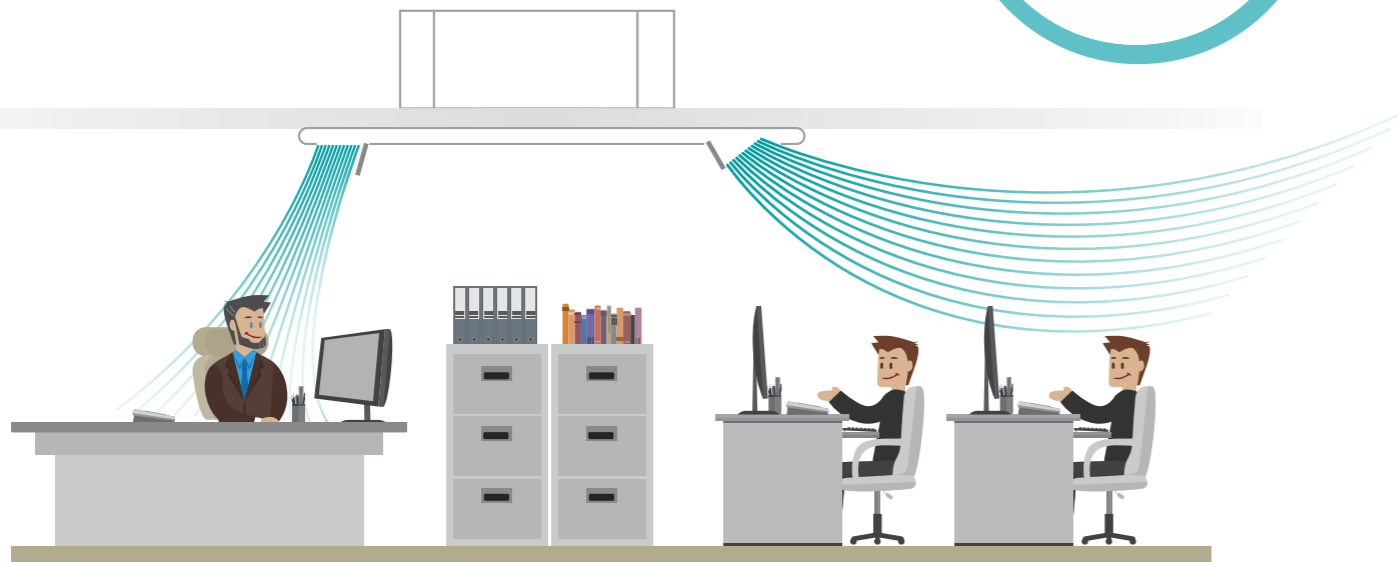
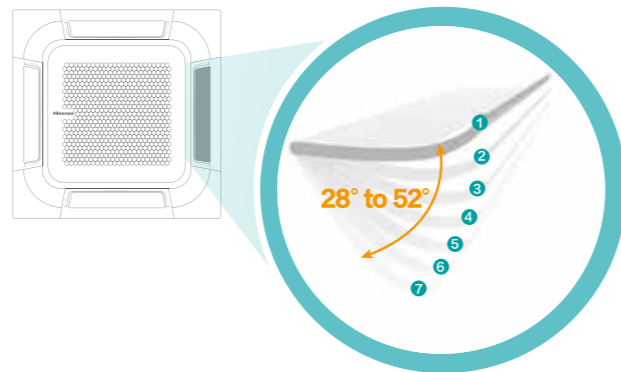
**Micro-holes and Breeze Mode**

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



**Individual Louver Control**

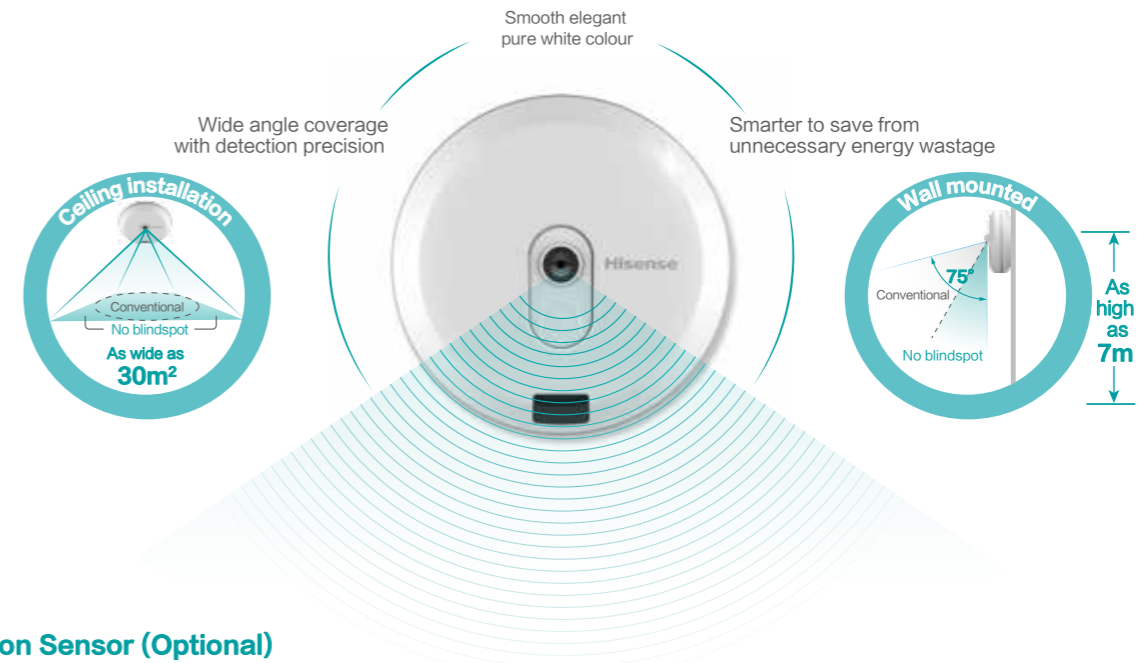
4-way cassette's louvers are now capable of individual control to freely choose how you want your AC unit supplies air according to different needs, applications and installation layout. Each louvers have 7 angle settings with angle range from 28° to 52°.



**Hi-Motion (Optional)**

With fashionable appearance, Hi-Motion can provide not only a comfortable environment but also energy-efficient operation.

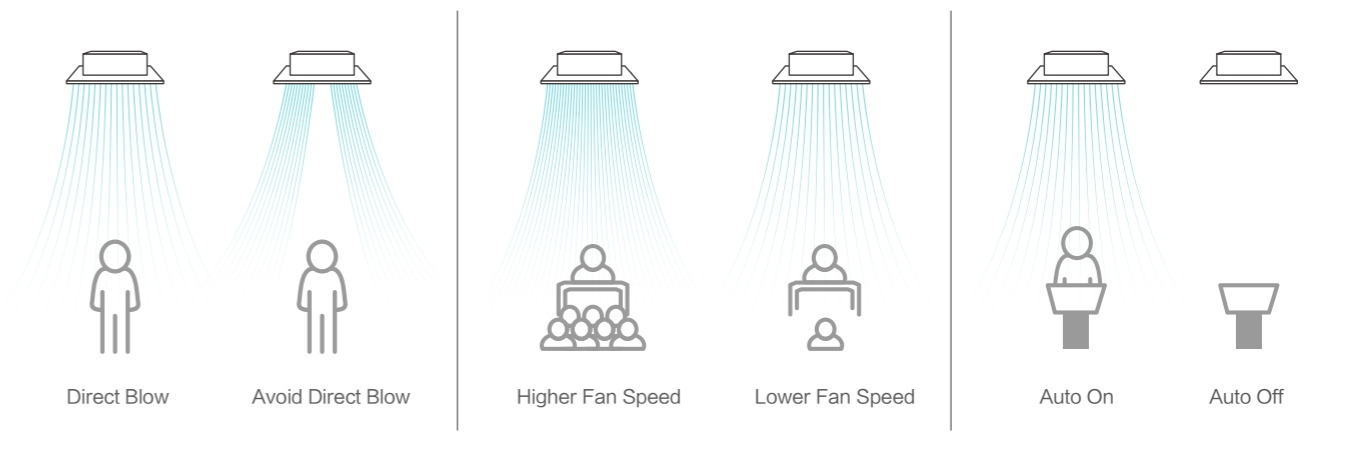
- 1) Automatically stops the unit when no one is in the room in order to realize energy saving.
- 2) Adjusting the setting temperature and air flow according to the actual human activity.



**Motion Sensor (Optional)**

Motion Sensor can provide a more comfortable environment, and achieve efficient and energy-saving operation of the unit at the same time.

- 1) With the sensor, indoor unit can ON or OFF automatically when people enter or leave the room.
- 2) The people location can be detected by the sensor automatically, and the air flow direction can be set to blow directly or to avoid blowing at people as they like.
- 3) The setting temperature can be changed automatically by detecting the number of people changing.





# Flexibility

COOLING ONLY



- Flexible System Design
- Dry Contact Interface
- Extra-high External Static Pressure Design
- One-touch Test Run
- Safe and Convenient System Management
- Separated Mechanical and Electrical Compartment
- Automatically Addressing
- One-touch Refrigerant Recycle
- Intelligent System Diagnosis
- Flexible Emergency Operations

COOLING ONLY



## Flexible System Design

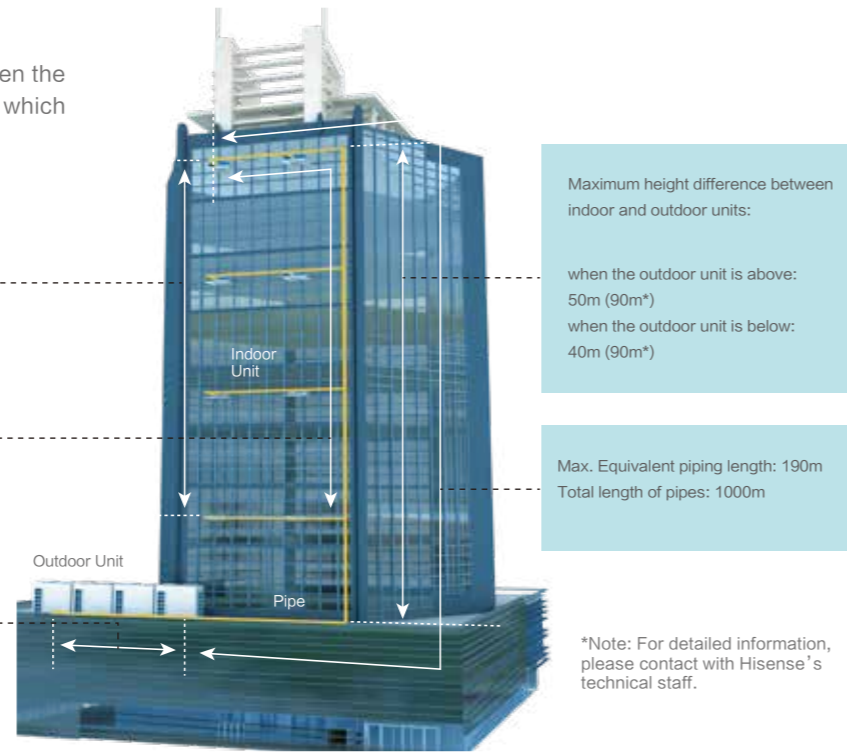
### Long Piping Length

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: 30m\*

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

Largest pipe length between outdoor units: 10m



### Max. 200% of Connection Ratio

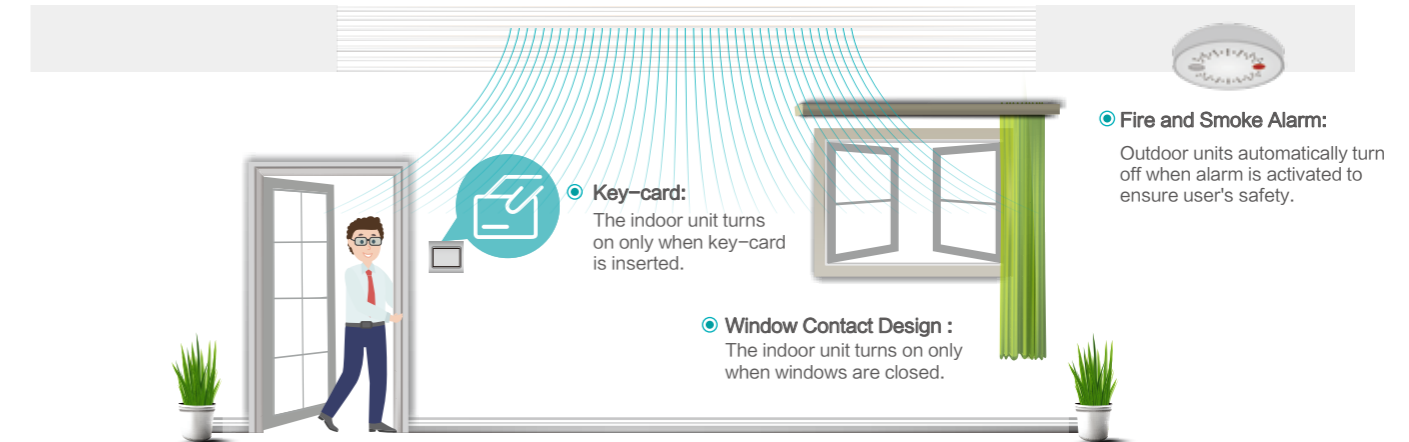
The max. connection ratio between indoor units and outdoor units in the single module system can reach 200%, which can improve the flexibility of design largely and reduce the cost of projects whose air condition systems always work under partial load considerably. For double modules, triple modules and four module combined units, the max. connection ratios are 180%, 160%, 150% respectively.



| Connection Ratio Condition   |      |
|------------------------------|------|
| Single Module Unit           | 200% |
| Double Modules Combined Unit | 180% |
| Triple Modules Combined Unit | 160% |
| Four Moudule Combined Unit   | 150% |

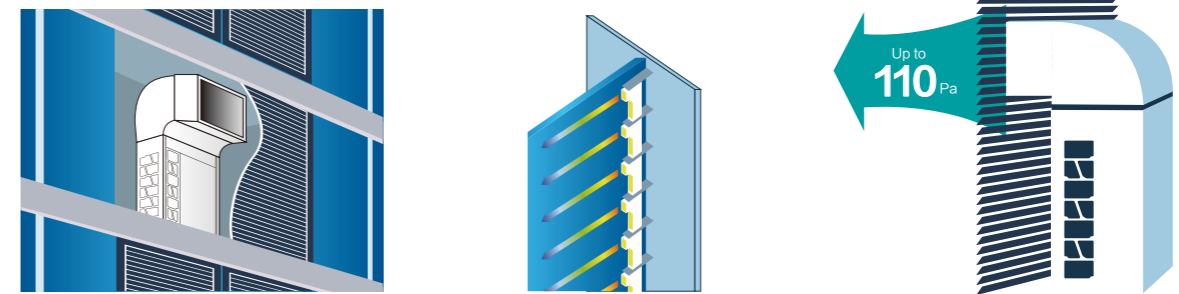
## Dry Contact Interface

External input & output ports are reserved in indoor units and outdoor units for a wider choice of applications to control the air conditioning system. The key-card control, window contact control and any other third-party sensors or devices control can be available through setting in the indoor units or outdoor units.



## Extra-high External Static Pressure Design

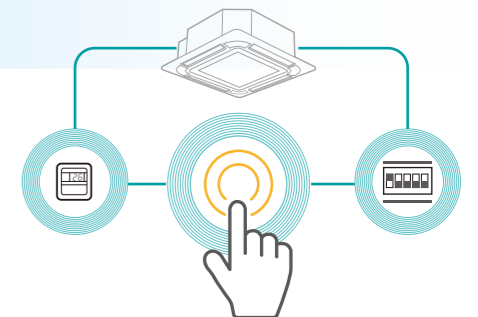
External static pressure is essential to determine the air discharge and duct connection length. The max. ESP of S mavo series cooling only unit is 110Pa. Allow longer ducting connection for better air discharge when are installed in the equipment platform that is not easy to exhaust.



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

## One-touch Test Run

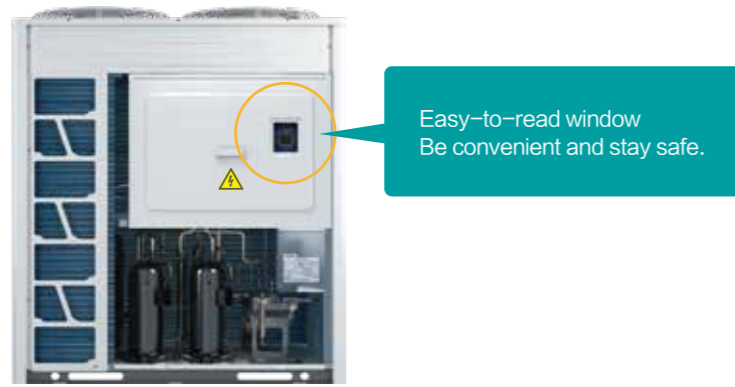
Test run is one of the essential parts in testing & commissioning to make sure the VRF system in a building works steadily and safely before handing over or soft openings. To make test run as simple as possible, Hi-FLEXI S mavo series cooling only unit is capable to conduct test runs with just a button away wherever installers are, one-touch test run functions are applicable in both outdoor units and controllers.





## Safe and Convenient System Management

The new outdoor units are equipped with a service window on top of the electrical box protection panel, providing easy access to parameters check. No need to disassemble the panel, decreasing the risk of electric shock.



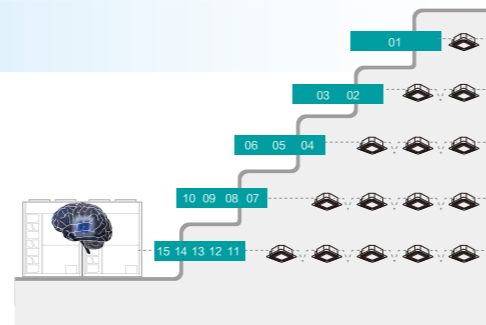
## Separated Mechanical and Electrical Compartment

Hi-FLEXi S mavo series cooling only unit has separated electrical and mechanical compartments and they are covered with independent panels. Service Engineers are free to take the panels apart to check and maintain every details conveniently. All designs provide the convenience for installation and maintenance.



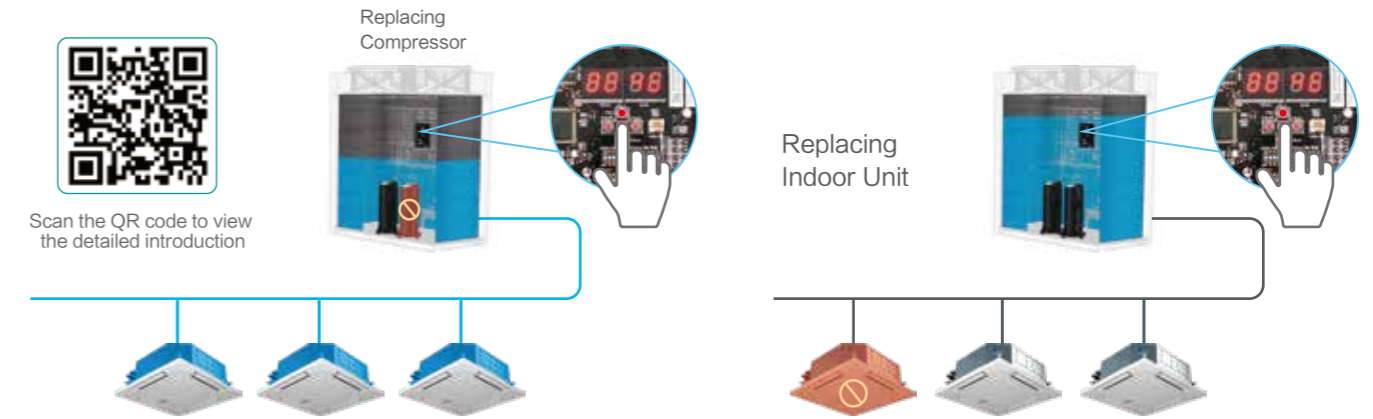
## Automatically Addressing

As the system gets larger, the number of indoor units will increase rapidly, and the setting of address for IDUs will become more and more complicated. Hi-FLEXi S mavo series cooling only unit provides an automatic addressing function. The system can automatically address indoor units. It is very simple and convenient for installation and commissioning.



## One-touch Refrigerant Recycle

Hi-FLEXi S mavo series cooling only unit has one-touch refrigerant recycle function. Just with a press of the button on the PCB, the refrigerant can be recycled directly, it is very helpful and convenient when the indoor units or the compressor are under repair.



## Intelligent System Diagnosis

Exclusive Hi-Checker is a super intelligent service tool for system diagnosis, which can provides easy access to service parameters. Detail operation status and recent error history can be checked and analyzed by using Hi-Checker.



## Flexible Emergency Operations

Under hot ambient temperature, it will cause lots of trouble once the air conditioning system shuts down. Hi-FLEXi S mavo series cooling only unit can provide six kinds of emergency operations, which can be easily set through controllers, PCB or inverter driven plate. When the compressor, fan motor, driven plate of fan motor, driven plate of compressor, temperature sensor of compressor or temperature sensor of compressor driven plate malfunctions, the air conditioning system can keep continuous working by changing settings.

# Outdoor Unit

COOLING ONLY



- AVWT-76CKFSE
- AVWT-96CKFSE
- AVWT-114CKFSE
- AVWT-136CKFSE
- AVWT-154CKFSE
- AVWT-170CKFSE
- AVWT-190CKFSE
- AVWT-212CKFSE
- AVWT-232CKFSE
- AVWT-250CKFSE
- AVWT-272CKFSE

COOLING ONLY



### Standard Combination

| Capacity | Model          | 14HP | 16HP | 18HP | 20HP | 22HP | 24HP | 26HP | 28HP |
|----------|----------------|------|------|------|------|------|------|------|------|
| 30HP     | AVWT-290CKFSE  | •    | •    |      |      |      |      |      |      |
| 32HP     | AVWT-308CKFSE  |      | ••   |      |      |      |      |      |      |
| 34HP     | AVWT-324CKFSE  |      | •    | •    |      |      |      |      |      |
| 36HP     | AVWT-340CKFSE  |      |      | ••   |      |      |      |      |      |
| 38HP     | AVWT-360CKFSE  |      |      | •    | •    |      |      |      |      |
| 40HP     | AVWT-382CKFSE  |      |      | •    |      | •    |      |      |      |
| 42HP     | AVWT-402CKFSE  |      |      | •    |      |      | •    |      |      |
| 44HP     | AVWT-422CKFSE  |      |      |      | •    |      | •    |      |      |
| 46HP     | AVWT-444CKFSE  |      |      |      |      | •    | •    |      |      |
| 48HP     | AVWT-464CKFSE  |      |      |      |      |      | ••   |      |      |
| 50HP     | AVWT-482CKFSE  |      |      |      |      |      | •    | •    |      |
| 52HP     | AVWT-504CKFSE  |      |      |      |      |      | •    |      | •    |
| 54HP     | AVWT-522CKFSE  |      |      |      |      |      |      | •    | •    |
| 56HP     | AVWT-544CKFSE  |      |      |      |      |      |      |      | ••   |
| 58HP     | AVWT-552CKFSE  |      |      | ••   |      | •    |      |      |      |
| 60HP     | AVWT-572CKFSE  |      |      | ••   |      |      | •    |      |      |
| 62HP     | AVWT-592CKFSE  |      |      | •    | •    |      | •    |      |      |
| 64HP     | AVWT-614CKFSE  |      |      | •    |      | •    | •    |      |      |
| 66HP     | AVWT-634CKFSE  |      |      | •    |      |      | ••   |      |      |
| 68HP     | AVWT-654CKFSE  |      |      |      | •    |      | ••   |      |      |
| 70HP     | AVWT-676CKFSE  |      |      |      |      | •    | ••   |      |      |
| 72HP     | AVWT-696CKFSE  |      |      |      |      |      | •••  |      |      |
| 74HP     | AVWT-714CKFSE  |      |      |      |      |      | ••   | •    |      |
| 76HP     | AVWT-732CKFSE  |      |      |      |      |      | •    | ••   |      |
| 78HP     | AVWT-754CKFSE  |      |      |      |      |      | •    | •    | •    |
| 80HP     | AVWT-776CKFSE  |      |      |      |      |      | •    |      | ••   |
| 82HP     | AVWT-794CKFSE  |      |      |      |      |      |      | •    | ••   |
| 84HP     | AVWT-816CKFSE  |      |      |      |      |      |      |      | •••  |
| 86HP     | AVWT-824CKFSE  |      |      |      | ••   | •    | •    |      |      |
| 88HP     | AVWT-844CKFSE  |      |      |      | ••   |      | ••   |      |      |
| 90HP     | AVWT-866CKFSE  |      |      |      | •    | •    | ••   |      |      |
| 92HP     | AVWT-886CKFSE  |      |      |      | •    |      | •••  |      |      |
| 94HP     | AVWT-908CKFSE  |      |      |      |      | •    | •••  |      |      |
| 96HP     | AVWT-928CKFSE  |      |      |      |      |      | •••• |      |      |
| 98HP     | AVWT-946CKFSE  |      |      |      |      |      | •••  | •    |      |
| 100HP    | AVWT-968CKFSE  |      |      |      |      |      | •••  |      | •    |
| 102HP    | AVWT-986CKFSE  |      |      |      |      |      | ••   | •    | •    |
| 104HP    | AVWT-1008CKFSE |      |      |      |      |      | ••   |      | ••   |
| 106HP    | AVWT-1026CKFSE |      |      |      |      |      | •    | •    | ••   |
| 108HP    | AVWT-1048CKFSE |      |      |      |      |      | •    |      | •••  |
| 110HP    | AVWT-1066CKFSE |      |      |      |      |      |      | •    | •••  |
| 112HP    | AVWT-1088CKFSE |      |      |      |      |      |      |      | •••• |

### High-efficiency Combination

| Capacity | Model         | 8HP | 10HP | 12HP | 14HP |
|----------|---------------|-----|------|------|------|
| 16HP     | AVWT-152CKFSH | ••  |      |      |      |
| 18HP     | AVWT-172CKFSH | •   | •    |      |      |
| 20HP     | AVWT-192CKFSH |     | ••   |      |      |
| 22HP     | AVWT-210CKFSH |     | •    | •    |      |
| 24HP     | AVWT-228CKFSH |     |      | ••   |      |
| 26HP     | AVWT-250CKFSH |     |      | •    | •    |
| 28HP     | AVWT-268CKFSH | •   | ••   |      |      |
| 30HP     | AVWT-288CKFSH |     | •••  |      |      |
| 32HP     | AVWT-306CKFSH |     | ••   | •    |      |
| 34HP     | AVWT-324CKFSH |     | •    | ••   |      |
| 36HP     | AVWT-342CKFSH |     |      | •••  |      |
| 38HP     | AVWT-364CKFSH |     |      | ••   | •    |
| 40HP     | AVWT-386CKFSH |     |      | •    | ••   |
| 42HP     | AVWT-402CKFSH |     | •••  | •    |      |
| 44HP     | AVWT-420CKFSH |     | ••   | ••   |      |
| 46HP     | AVWT-438CKFSH |     | •    | •••  |      |
| 48HP     | AVWT-456CKFSH |     |      | •••• |      |
| 50HP     | AVWT-478CKFSH |     |      | •••  | •    |



## Standard Combination

### Outdoor Unit Specifications



| Capacity                            |                                       | 8HP                     | 10HP         | 12HP          | 14HP          | 16HP          | 18HP          |
|-------------------------------------|---------------------------------------|-------------------------|--------------|---------------|---------------|---------------|---------------|
| Model                               |                                       | AVWT-76CKFSE            | AVWT-96CKFSE | AVWT-114CKFSE | AVWT-136CKFSE | AVWT-154CKFSE | AVWT-170CKFSE |
| Combination                         |                                       | AVWT-76CKFSE            | AVWT-96CKFSE | AVWT-114CKFSE | AVWT-136CKFSE | AVWT-154CKFSE | AVWT-170CKFSE |
| Power Supply                        |                                       | AC 3Φ, 380-415V/50/60Hz |              |               |               |               |               |
| Cooling Operation                   | Capacity                              | kW                      | 22.4         | 28.0          | 33.5          | 40.0          | 45.0          |
|                                     |                                       | kBtu/h                  | 76.4         | 95.5          | 114.3         | 136.5         | 153.5         |
|                                     | Power Input                           | kW                      | 4.81         | 6.54          | 7.92          | 10.18         | 12.16         |
|                                     | EER                                   | W/W                     | 4.66         | 4.28          | 4.23          | 3.93          | 3.70          |
| Ventilation                         | Air Flow Rate                         | m³/min                  | 183          | 183           | 183           | 200           | 200           |
|                                     | Fan Quantity                          | pcs                     | 1            | 1             | 1             | 2             | 2             |
|                                     | Static Pressure                       | Pa                      | 110          | 110           | 110           | 110           | 110           |
| Sound Pressure Level(Normal/Silent) |                                       | dB(A)                   | 59/42        | 61/42         | 61/44         | 62/44         | 62/45         |
| Compressor                          | Type                                  | Scroll Compressor       |              |               |               |               |               |
|                                     | Quantity                              | pcs                     | 1            | 1             | 1             | 1             | 1             |
| Refrigerant                         | Type                                  | R410A                   |              |               |               |               |               |
|                                     | Pre-charged Quantity                  | kg                      | 6.4          | 6.4           | 7.8           | 10.0          | 12.3          |
| Weight                              | Net Weight                            | kg                      | 212          | 213           | 218           | 260           | 285           |
|                                     | Gross Weight                          | kg                      | 240          | 241           | 246           | 291           | 315           |
| Cabinet Color                       |                                       | Ivory White             |              |               |               |               |               |
| Net Dimensions                      | Height                                | mm                      | 1730         | 1730          | 1730          | 1730          | 1730          |
|                                     | Width                                 | mm                      | 950          | 950           | 950           | 1210          | 1210          |
|                                     | Depth                                 | mm                      | 750          | 750           | 750           | 750           | 750           |
| Packing Dimensions                  | Height                                | mm                      | 1950         | 1950          | 1950          | 1950          | 1950          |
|                                     | Width                                 | mm                      | 1015         | 1015          | 1015          | 1275          | 1275          |
|                                     | Depth                                 | mm                      | 790          | 790           | 790           | 790           | 790           |
| Ref. Piping                         | Gas                                   | mm                      | φ19.05       | φ22.20        | φ25.40        | φ25.40        | φ28.60        |
|                                     |                                       | inch                    | 3/4          | 7/8           | 1             | 1             | 1-1/8         |
|                                     | Liquid                                | mm                      | φ9.53        | φ9.53         | φ12.70        | φ12.70        | φ15.88        |
|                                     |                                       | inch                    | 3/8          | 3/8           | 1/2           | 1/2           | 5/8           |
| Connectable Indoor Units            | Quantity                              | pcs                     | 13           | 16            | 19            | 23            | 29            |
|                                     | Connection Ratio                      | -                       | 50%-200%     |               |               |               |               |
| Piping Design                       | Max. Total Piping Length              |                         | m            |               |               |               |               |
|                                     | Max. Piping Length                    | Actual Length           | m            |               |               |               |               |
|                                     |                                       | Equivalent Length       | m            |               |               |               |               |
|                                     | Height Difference Between ODU and IDU |                         | m            |               |               |               |               |
|                                     | Height Difference Between IDUs        |                         | m            |               |               |               |               |
| Cooling Operating Range             |                                       | °CDB                    | 10-52        |               |               |               |               |

- NOTES:
- Rated 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 difference: 0m
  - The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.  
Measurement point: 1 meter from the service cover surface and 1.5 meters from floor level.

### Outdoor Unit Specifications



| Capacity                            |                                       | 20HP                    | 22HP          | 24HP          | 26HP          | 28HP          |
|-------------------------------------|---------------------------------------|-------------------------|---------------|---------------|---------------|---------------|
| Model                               |                                       | AVWT-190CKFSE           | AVWT-212CKFSE | AVWT-232CKFSE | AVWT-250CKFSE | AVWT-272CKFSE |
| Combination                         |                                       | AVWT-190CKFSE           | AVWT-212CKFSE | AVWT-232CKFSE | AVWT-250CKFSE | AVWT-272CKFSE |
| Power Supply                        |                                       | AC 3Φ, 380-415V/50/60Hz |               |               |               |               |
| Cooling Operation                   | Capacity                              | kW                      | 56.0          | 61.5          | 68.0          | 72.5          |
|                                     |                                       | kBtu/h                  | 191.1         | 209.8         | 232.0         | 247.4         |
|                                     | Power Input                           | kW                      | 15.18         | 17.67         | 19.82         | 20.54         |
|                                     | EER                                   | W/W                     | 3.69          | 3.48          | 3.43          | 3.53          |
| Ventilation                         | Air Flow Rate                         | m³/min                  | 267           | 296           | 296           | 350           |
|                                     | Fan Quantity                          | pcs                     | 2             | 2             | 2             | 2             |
|                                     | Static Pressure                       | Pa                      | 110           | 110           | 110           | 110           |
| Sound Pressure Level(Normal/Silent) |                                       | dB(A)                   | 63/47         | 64/48         | 65/48         | 66/50         |
| Compressor                          | Type                                  | Scroll Compressor       |               |               |               |               |
|                                     | Quantity                              | pcs                     | 2             | 2             | 2             | 2             |
| Refrigerant                         | Type                                  | R410A                   |               |               |               |               |
|                                     | Pre-charged Quantity                  | kg                      | 13.4          | 13.4          | 13.4          | 14.7          |
| Weight                              | Net Weight                            | kg                      | 347           | 358           | 359           | 376           |
|                                     | Gross Weight                          | kg                      | 380           | 390           | 391           | 414           |
| Cabinet Color                       |                                       | Ivory White             |               |               |               |               |
| Net Dimensions                      | Height                                | mm                      | 1730          | 1730          | 1730          | 1730          |
|                                     | Width                                 | mm                      | 1350          | 1350          | 1350          | 1600          |
|                                     | Depth                                 | mm                      | 750           | 750           | 750           | 750           |
| Packing Dimensions                  | Height                                | mm                      | 1950          | 1950          | 1950          | 1950          |
|                                     | Width                                 | mm                      | 1420          | 1420          | 1420          | 1665          |
|                                     | Depth                                 | mm                      | 790           | 790           | 790           | 790           |
| Ref. Piping                         | Gas                                   | mm                      | φ28.60        | φ28.60        | φ28.60        | φ31.75        |
|                                     |                                       | inch                    | 1-1/8         | 1-1/8         | 1-1/8         | 1-1/4         |
|                                     | Liquid                                | mm                      | φ15.88        | φ15.88        | φ15.88        | φ19.05        |
|                                     |                                       | inch                    | 5/8           | 5/8           | 5/8           | 3/4           |
| Connectable Indoor Units            | Quantity                              | pcs                     | 33            | 36            | 40            | 43            |
|                                     | Connection Ratio                      | -                       | 50%-200%      |               |               |               |
| Piping Design                       | Max. Total Piping Length              |                         | m             |               |               |               |
|                                     | Max. Piping Length                    | Actual Length           | m             |               |               |               |
|                                     |                                       | Equivalent Length       | m             |               |               |               |
|                                     | Height Difference Between ODU and IDU |                         | m             |               |               |               |
|                                     | Height Difference Between IDUs        |                         | m             |               |               |               |
| Cooling Operating Range             |                                       | °CDB                    | 10-52         |               |               |               |

- The final appearance of outdoor units is subject to the actual products.
- When the operation temperature is under 48°C DB ~ 52°C DB, please contact with our professional engineer.
- \*1: If height difference between ODU&IDU more than 50(40)m, please contact with our professional engineer.
- \*2: If the height difference between indoor units is more than 15m, please contact with our professional engineer.



## Standard Combination

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 30HP                           | 32HP          | 34HP          | 36HP          | 38HP          |       |
|-------------------------------------|---------------------------------------|---------------------|--------------------------------|---------------|---------------|---------------|---------------|-------|
| Model                               |                                       |                     | AVWT-290CKFSE                  | AVWT-308CKFSE | AVWT-324CKFSE | AVWT-340CKFSE | AVWT-360CKFSE |       |
| Combination                         |                                       |                     | AVWT-136CKFSE                  | AVWT-154CKFSE | AVWT-154CKFSE | AVWT-170CKFSE | AVWT-170CKFSE |       |
|                                     |                                       |                     | AVWT-154CKFSE                  | AVWT-154CKFSE | AVWT-170CKFSE | AVWT-170CKFSE | AVWT-190CKFSE |       |
| Power Supply                        |                                       |                     | AC 3 $\phi$ , 380-415V/50/60Hz |               |               |               |               |       |
| Cooling Operation                   | Capacity                              | kW                  | 85.0                           | 90.0          | 95.0          | 100.0         | 106.0         |       |
|                                     |                                       | kBtu/h              | 290                            | 307           | 324.1         | 341.2         | 361.7         |       |
|                                     | Power Input                           | kW                  | 22.34                          | 24.32         | 26.13         | 27.94         | 29.15         |       |
|                                     | EER                                   | W/W                 | 3.80                           | 3.70          | 3.64          | 3.58          | 3.64          |       |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 400                            | 400           | 400           | 400           | 467           |       |
|                                     | Fan Quantity                          | pcs                 | 4                              | 4             | 4             | 4             | 4             |       |
|                                     | Static Pressure                       | Pa                  | 110                            | 110           | 110           | 110           | 110           |       |
| Sound Pressure Level(Normal/Silent) |                                       |                     | dB(A)                          |               | 65/48         | 65/48         | 66/49         | 66/49 |
| Compressor                          | Type                                  | —                   | Scroll Compressor              |               |               |               |               |       |
|                                     | Quantity                              | pcs                 | 2                              | 2             | 2             | 2             | 3             |       |
| Refrigerant                         | Type                                  | —                   | R410A                          |               |               |               |               |       |
|                                     | Pre-charged Quantity                  | kg                  | 10+10                          | 10+10         | 10+12.3       | 12.3+12.3     | 12.3+13.4     |       |
| Weight                              | Net Weight                            | kg                  | 260+262                        | 262+262       | 262+285       | 285+285       | 285+347       |       |
|                                     | Gross Weight                          | kg                  | 291+293                        | 293+293       | 293+315       | 315+315       | 315+380       |       |
| Cabinet Color                       |                                       |                     | Ivory White                    |               |               |               |               |       |
| Net Dimensions                      | Height                                | mm                  | 1730                           | 1730          | 1730          | 1730          | 1730          |       |
|                                     | Width                                 | mm                  | 1210+1210                      | 1210+1210     | 1210+1210     | 1210+1210     | 1210+1350     |       |
|                                     | Depth                                 | mm                  | 750                            | 750           | 750           | 750           | 750           |       |
| Packing Dimensions                  | Height                                | mm                  | 1950                           | 1950          | 1950          | 1950          | 1950          |       |
|                                     | Width                                 | mm                  | 1275+1275                      | 1275+1275     | 1275+1275     | 1275+1275     | 1275+1420     |       |
|                                     | Depth                                 | mm                  | 790                            | 790           | 790           | 790           | 790           |       |
| Ref. Piping                         | Gas                                   | mm                  | $\phi$ 31.75                   | $\phi$ 31.75  | $\phi$ 38.1   | $\phi$ 38.1   | $\phi$ 38.1   |       |
|                                     |                                       | inch                | 1-1/4                          | 1-1/4         | 1-1/2         | 1-1/2         | 1-1/2         |       |
|                                     | Liquid                                | mm                  | $\phi$ 19.05                   | $\phi$ 19.05  | $\phi$ 19.05  | $\phi$ 19.05  | $\phi$ 19.05  |       |
|                                     |                                       | inch                | 3/4                            | 3/4           | 3/4           | 3/4           | 3/4           |       |
| Connectable Indoor Units            | Quantity                              | pcs                 | 49                             | 52            | 55            | 59            | 62            |       |
|                                     | Connection Ratio                      | —                   | 50%~180%                       |               |               |               |               |       |
| Piping Design                       | Max. Total Piping Length              |                     | m                              |               |               |               |               |       |
|                                     | Max. Piping Length                    | Actual Length       | m                              |               |               |               |               |       |
|                                     |                                       | Equivalent Length   | m                              |               |               |               |               |       |
|                                     | Height Difference Between ODU and IDU |                     | m                              |               |               |               |               |       |
|                                     |                                       |                     | When the ODU is above: 50(90°) |               |               |               |               |       |
|                                     |                                       |                     | When the ODU is below: 40(90°) |               |               |               |               |       |
| Height Difference Between IDUs      |                                       | m                   |                                |               |               |               |               |       |
|                                     |                                       | 15(30°)             |                                |               |               |               |               |       |
| Cooling Operating Range             |                                       | °CDB                | 10~52                          |               |               |               |               |       |

NOTES:

- Rated 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 difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.  
Measurement point: 1 meter from the service cover surface and 1.5 meters from floor level.

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 40HP                           | 42HP          | 44HP          | 46HP          | 48HP          |       |
|-------------------------------------|---------------------------------------|---------------------|--------------------------------|---------------|---------------|---------------|---------------|-------|
| Model                               |                                       |                     | AVWT-382CKFSE                  | AVWT-402CKFSE | AVWT-422CKFSE | AVWT-444CKFSE | AVWT-464CKFSE |       |
| Combination                         |                                       |                     | AVWT-170CKFSE                  | AVWT-170CKFSE | AVWT-190CKFSE | AVWT-212CKFSE | AVWT-232CKFSE |       |
|                                     |                                       |                     | AVWT-212CKFSE                  | AVWT-232CKFSE | AVWT-232CKFSE | AVWT-232CKFSE | AVWT-232CKFSE |       |
| Power Supply                        |                                       |                     | AC 3 $\phi$ , 380-415V/50/60Hz |               |               |               |               |       |
| Cooling Operation                   | Capacity                              | kW                  | 111.5                          | 118.0         | 124.0         | 129.5         | 136.0         |       |
|                                     |                                       | kBtu/h              | 380.4                          | 402.6         | 423.1         | 441.8         | 464.0         |       |
|                                     | Power Input                           | kW                  | 31.64                          | 33.79         | 35.00         | 37.49         | 39.64         |       |
|                                     | EER                                   | W/W                 | 3.52                           | 3.49          | 3.54          | 3.45          | 3.43          |       |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 496                            | 496           | 563           | 592           | 592           |       |
|                                     | Fan Quantity                          | pcs                 | 4                              | 4             | 4             | 4             | 4             |       |
|                                     | Static Pressure                       | Pa                  | 110                            | 110           | 110           | 110           | 110           |       |
| Sound Pressure Level(Normal/Silent) |                                       |                     | dB(A)                          |               | 67/50         | 67/50         | 67/51         | 68/51 |
| Compressor                          | Type                                  | —                   | Scroll Compressor              |               |               |               |               |       |
|                                     | Quantity                              | pcs                 | 3                              | 3             | 4             | 4             | 4             |       |
| Refrigerant                         | Type                                  | —                   | R410A                          |               |               |               |               |       |
|                                     | Pre-charged Quantity                  | kg                  | 12.3+13.4                      | 12.3+13.4     | 13.4+13.4     | 13.4+13.4     | 13.4+13.4     |       |
| Weight                              | Net Weight                            | kg                  | 285+358                        | 285+359       | 347+359       | 358+359       | 359+359       |       |
|                                     | Gross Weight                          | kg                  | 315+390                        | 315+391       | 380+391       | 390+391       | 391+391       |       |
| Cabinet Color                       |                                       |                     | Ivory White                    |               |               |               |               |       |
| Net Dimensions                      | Height                                | mm                  | 1730                           | 1730          | 1730          | 1730          | 1730          |       |
|                                     | Width                                 | mm                  | 1210+1350                      | 1210+1350     | 1350+1350     | 1350+1350     | 1350+1350     |       |
|                                     | Depth                                 | mm                  | 750                            | 750           | 750           | 750           | 750           |       |
| Packing Dimensions                  | Height                                | mm                  | 1950                           | 1950          | 1950          | 1950          | 1950          |       |
|                                     | Width                                 | mm                  | 1275+1420                      | 1275+1420     | 1420+1420     | 1420+1420     | 1420+1420     |       |
|                                     | Depth                                 | mm                  | 790                            | 790           | 790           | 790           | 790           |       |
| Ref. Piping                         | Gas                                   | mm                  | $\phi$ 38.1                    | $\phi$ 38.1   | $\phi$ 38.1   | $\phi$ 41.3   | $\phi$ 41.3   |       |
|                                     |                                       | inch                | 1-1/2                          | 1-1/2         | 1-1/2         | 1-5/8         | 1-5/8         |       |
|                                     | Liquid                                | mm                  | $\phi$ 19.05                   | $\phi$ 19.05  | $\phi$ 19.05  | $\phi$ 22.2   | $\phi$ 22.2   |       |
|                                     |                                       | inch                | 3/4                            | 3/4           | 3/4           | 7/8           | 7/8           |       |
| Connectable Indoor Units            | Quantity                              | pcs                 | 64                             | 64            | 64            | 64            | 64            |       |
|                                     | Connection Ratio                      | —                   | 50%~180%                       |               |               |               |               |       |
| Piping Design                       | Max. Total Piping Length              |                     | m                              |               |               |               |               |       |
|                                     | Max. Piping Length                    | Actual Length       | m                              |               |               |               |               |       |
|                                     |                                       | Equivalent Length   | m                              |               |               |               |               |       |
|                                     | Height Difference Between ODU and IDU |                     | m                              |               |               |               |               |       |
|                                     |                                       |                     | When the ODU is above: 50(90°) |               |               |               |               |       |
|                                     |                                       |                     | When the ODU is below: 40(90°) |               |               |               |               |       |
| Height Difference Between IDUs      |                                       | m                   |                                |               |               |               |               |       |
|                                     |                                       | 15(30°)             |                                |               |               |               |               |       |
| Cooling Operating Range             |                                       | °CDB                | 10~52                          |               |               |               |               |       |

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

- When the operation temperature is under 48°C DB ~ 52°C DB, please contact with our professional engineer.
- \*1: If height difference between ODU&IDU more than 50(40)m, please contact with our professional engineer.
- \*2: If the height difference between indoor units is more than 15m, please contact with our professional engineer.

## Standard Combination

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 50HP                           | 52HP          | 54HP          | 56HP          |
|-------------------------------------|---------------------------------------|---------------------|--------------------------------|---------------|---------------|---------------|
| Model                               |                                       |                     | AVWT-482CKFSE                  | AVWT-504CKFSE | AVWT-522CKFSE | AVWT-544CKFSE |
| Combination                         |                                       |                     | AVWT-232CKFSE                  | AVWT-232CKFSE | AVWT-250CKFSE | AVWT-272CKFSE |
|                                     |                                       |                     | AVWT-250CKFSE                  | AVWT-272CKFSE | AVWT-272CKFSE | AVWT-272CKFSE |
|                                     |                                       |                     | /                              | /             | /             | /             |
| Power Supply                        |                                       |                     | AC 3 $\phi$ , 380-415V/50/60Hz |               |               |               |
| Cooling Operation                   | Capacity                              | kW                  | 140.5                          | 148.0         | 152.5         | 160.0         |
|                                     |                                       | kBtu/h              | 479.4                          | 505.0         | 520.4         | 546.0         |
|                                     | Power Input                           | kW                  | 40.36                          | 43.7          | 44.42         | 47.76         |
|                                     |                                       | EER                 | W/W                            | 3.48          | 3.39          | 3.43          |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 646                            | 646           | 700           | 700           |
|                                     | Fan Quantity                          | pcs                 | 4                              | 4             | 4             | 4             |
|                                     | Static Pressure                       | Pa                  | 110                            | 110           | 110           | 110           |
| Sound Pressure Level(Normal/Silent) |                                       | dB(A)               | 69/52                          | 69/52         | 70/53         | 70/53         |
| Compressor                          | Type                                  | —                   | Scroll Compressor              |               |               |               |
|                                     | Quantity                              | pcs                 | 4                              | 4             | 4             | 4             |
| Refrigerant                         | Type                                  | —                   | R410A                          |               |               |               |
|                                     | Pre-charged Quantity                  | kg                  | 13.4+14.7                      | 13.4+14.7     | 14.7+14.7     | 14.7+14.7     |
| Weight                              | Net Weight                            | kg                  | 359+376                        | 359+377       | 376+377       | 377+377       |
|                                     | Gross Weight                          | kg                  | 391+414                        | 391+416       | 414+416       | 416+416       |
| Cabinet Color                       |                                       | —                   | Ivory White                    |               |               |               |
| Net Dimensions                      | Height                                | mm                  | 1730                           | 1730          | 1730          | 1730          |
|                                     | Width                                 | mm                  | 1350+1600                      | 1350+1600     | 1600+1600     | 1600+1600     |
|                                     | Depth                                 | mm                  | 750                            | 750           | 750           | 750           |
| Packing Dimensions                  | Height                                | mm                  | 1950                           | 1950          | 1950          | 1950          |
|                                     | Width                                 | mm                  | 1420+1665                      | 1420+1665     | 1665+1665     | 1665+1665     |
|                                     | Depth                                 | mm                  | 790                            | 790           | 790           | 790           |
| Ref. Piping                         | Gas                                   | mm                  | $\phi$ 41.3                    | $\phi$ 41.3   | $\phi$ 41.3   | $\phi$ 41.3   |
|                                     |                                       | inch                | 1-5/8                          | 1-5/8         | 1-5/8         | 1-5/8         |
|                                     | Liquid                                | mm                  | $\phi$ 22.2                    | $\phi$ 22.2   | $\phi$ 22.2   | $\phi$ 22.2   |
|                                     |                                       | inch                | 7/8                            | 7/8           | 7/8           | 7/8           |
| Connectable Indoor Units            | Quantity                              | pcs                 | 64                             | 64            | 64            | 64            |
|                                     | Connection Ratio                      | —                   | 50%~180%                       |               |               |               |
| Piping Design                       | Max. Total Piping Length              |                     | m                              |               |               |               |
|                                     | Max. Piping Length                    | Actual Length       | m                              |               |               |               |
|                                     |                                       | Equivalent Length   | m                              |               |               |               |
|                                     | Height Difference Between ODU and IDU |                     | m                              |               |               |               |
|                                     | Height Difference Between IDUs        |                     | m                              |               |               |               |
| Cooling Operating Range             |                                       | $^{\circ}$ CDB      | 10~52                          |               |               |               |

NOTES:

- Rated capacity is tested in the following conditions:  
Cooling conditions: indoor air inlet temperature: 27 $^{\circ}$ C DB 19 $^{\circ}$ C WB, Outdoor air inlet temperature: 35 $^{\circ}$ C DB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.  
Measurement point: 1 meter from the service cover surface and 1.5 meters from floor level.

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 58HP                           | 60HP           | 62HP           | 64HP           |
|-------------------------------------|---------------------------------------|---------------------|--------------------------------|----------------|----------------|----------------|
| Model                               |                                       |                     | AVWT-552CKFSE                  | AVWT-572CKFSE  | AVWT-592CKFSE  | AVWT-614CKFSE  |
| Combination                         |                                       |                     | AVWT-170CKFSE                  | AVWT-170CKFSE  | AVWT-170CKFSE  | AVWT-170CKFSE  |
|                                     |                                       |                     | AVWT-170CKFSE                  | AVWT-170CKFSE  | AVWT-190CKFSE  | AVWT-212CKFSE  |
|                                     |                                       |                     | AVWT-212CKFSE                  | AVWT-232CKFSE  | AVWT-232CKFSE  | AVWT-232CKFSE  |
|                                     |                                       |                     | /                              | /              | /              | /              |
| Power Supply                        |                                       |                     | AC 3 $\phi$ , 380-415V/50/60Hz |                |                |                |
| Cooling Operation                   | Capacity                              | kW                  | 161.5                          | 168.0          | 174.0          | 179.5          |
|                                     |                                       | kBtu/h              | 551.0                          | 573.2          | 593.7          | 612.4          |
|                                     | Power Input                           | kW                  | 45.61                          | 47.76          | 48.97          | 51.46          |
|                                     |                                       | EER                 | W/W                            | 3.54           | 3.52           | 3.55           |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 696                            | 696            | 763            | 792            |
|                                     | Fan Quantity                          | pcs                 | 6                              | 6              | 6              | 6              |
|                                     | Static Pressure                       | Pa                  | 110                            | 110            | 110            | 110            |
| Sound Pressure Level(Normal/Silent) |                                       | dB(A)               | 68/52                          | 69/52          | 69/52          | 69/52          |
| Compressor                          | Type                                  | —                   | Scroll Compressor              |                |                |                |
|                                     | Quantity                              | pcs                 | 4                              | 4              | 5              | 5              |
| Refrigerant                         | Type                                  | —                   | R410A                          |                |                |                |
|                                     | Pre-charged Quantity                  | kg                  | 12.3+12.3+13.4                 | 12.3+12.3+13.4 | 12.3+13.4+13.4 | 12.3+13.4+13.4 |
| Weight                              | Net Weight                            | kg                  | 285+285+358                    | 285+347+359    | 285+347+359    | 285+358+359    |
|                                     | Gross Weight                          | kg                  | 315+315+390                    | 315+315+391    | 315+380+391    | 315+390+391    |
| Cabinet Color                       |                                       | —                   | Ivory White                    |                |                |                |
| Net Dimensions                      | Height                                | mm                  | 1730                           | 1730           | 1730           | 1730           |
|                                     | Width                                 | mm                  | 1210+1210+1350                 | 1210+1210+1350 | 1210+1350+1350 | 1210+1350+1350 |
|                                     | Depth                                 | mm                  | 750                            | 750            | 750            | 750            |
| Packing Dimensions                  | Height                                | mm                  | 1950                           | 1950           | 1950           | 1950           |
|                                     | Width                                 | mm                  | 1275+1275+1420                 | 1275+1275+1420 | 1275+1420+1420 | 1275+1420+1420 |
|                                     | Depth                                 | mm                  | 790                            | 790            | 790            | 790            |
| Ref. Piping                         | Gas                                   | mm                  | $\phi$ 44.5                    | $\phi$ 44.5    | $\phi$ 44.5    | $\phi$ 44.5    |
|                                     |                                       | inch                | 1-3/4                          | 1-3/4          | 1-3/4          | 1-3/4          |
|                                     | Liquid                                | mm                  | $\phi$ 22.2                    | $\phi$ 22.2    | $\phi$ 22.2    | $\phi$ 22.2    |
|                                     |                                       | inch                | 7/8                            | 7/8            | 7/8            | 7/8            |
| Connectable Indoor Units            | Quantity                              | pcs                 | 64                             | 64             | 64             | 64             |
|                                     | Connection Ratio                      | —                   | 50%~160%                       |                |                |                |
| Piping Design                       | Max. Total Piping Length              |                     | m                              |                |                |                |
|                                     | Max. Piping Length                    | Actual Length       | m                              |                |                |                |
|                                     |                                       | Equivalent Length   | m                              |                |                |                |
|                                     | Height Difference Between ODU and IDU |                     | m                              |                |                |                |
|                                     | Height Difference Between IDUs        |                     | m                              |                |                |                |
| Cooling Operating Range             |                                       | $^{\circ}$ CDB      | 10~52                          |                |                |                |

NOTES:

- The final appearance of outdoor units is subject to the actual products.
- When the operation temperature is under 48 $^{\circ}$ C DB ~ 52 $^{\circ}$ C DB, please contact with our professional engineer.
- \*1: If height difference between ODU&IDU more than 50(40)m, please contact with our professional engineer.
- \*2: If the height difference between indoor units is more than 15m, please contact with our professional engineer.



## Standard Combination

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 66HP                           | 68HP           | 70HP           | 72HP           |
|-------------------------------------|---------------------------------------|---------------------|--------------------------------|----------------|----------------|----------------|
| Model                               |                                       |                     | AVWT-634CKFSE                  | AVWT-654CKFSE  | AVWT-676CKFSE  | AVWT-696CKFSE  |
| Combination                         |                                       |                     | AVWT-170CKFSE                  | AVWT-190CKFSE  | AVWT-212CKFSE  | AVWT-232CKFSE  |
|                                     |                                       |                     | AVWT-232CKFSE                  | AVWT-232CKFSE  | AVWT-232CKFSE  | AVWT-232CKFSE  |
|                                     |                                       |                     | /                              | /              | /              | /              |
| Power Supply                        |                                       |                     | AC 3 $\phi$ , 380-415V/50/60Hz |                |                |                |
| Cooling Operation                   | Capacity                              | kW                  | 186.0                          | 192.0          | 197.5          | 204.0          |
|                                     |                                       | kBtu/h              | 634.6                          | 655.1          | 673.8          | 696.0          |
|                                     | Power Input                           | kW                  | 53.61                          | 54.82          | 57.31          | 59.46          |
|                                     | EER                                   | W/W                 | 3.47                           | 3.50           | 3.45           | 3.43           |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 792                            | 859            | 888            | 888            |
|                                     | Fan Quantity                          | pcs                 | 6                              | 6              | 6              | 6              |
|                                     | Static Pressure                       | Pa                  | 110                            | 110            | 110            | 110            |
| Sound Pressure Level(Normal/Silent) |                                       | dB(A)               | 69/52                          | 69/52          | 69/53          | 70/53          |
| Compressor                          | Type                                  | —                   | Scroll Compressor              |                |                |                |
|                                     | Quantity                              | pcs                 | 5                              | 6              | 6              | 6              |
| Refrigerant                         | Type                                  | —                   | R410A                          |                |                |                |
|                                     | Pre-charged Quantity                  | kg                  | 12.3+13.4+13.4                 | 13.4+13.4+13.4 | 13.4+13.4+13.4 | 13.4+13.4+13.4 |
| Weight                              | Net Weight                            | kg                  | 285+359+359                    | 347+359+359    | 358+359+359    | 359+359+359    |
|                                     | Gross Weight                          | kg                  | 315+391+391                    | 380+391+391    | 390+391+391    | 391+391+391    |
| Cabinet Color                       |                                       | —                   | Ivory White                    |                |                |                |
| Net Dimensions                      | Height                                | mm                  | 1730                           | 1730           | 1730           | 1730           |
|                                     | Width                                 | mm                  | 1210+1350+1350                 | 1350+1350+1350 | 1350+1350+1350 | 1350+1350+1350 |
|                                     | Depth                                 | mm                  | 750                            | 750            | 750            | 750            |
| Packing Dimensions                  | Height                                | mm                  | 1950                           | 1950           | 1950           | 1950           |
|                                     | Width                                 | mm                  | 1275+1420+1420                 | 1420+1420+1420 | 1420+1420+1420 | 1420+1420+1420 |
|                                     | Depth                                 | mm                  | 790                            | 790            | 790            | 790            |
| Ref. Piping                         | Gas                                   | mm                  | $\phi$ 44.5                    | $\phi$ 50.8    | $\phi$ 50.8    | $\phi$ 50.8    |
|                                     |                                       | inch                | 1-3/4                          | 2              | 2              | 2              |
|                                     | Liquid                                | mm                  | $\phi$ 22.2                    | $\phi$ 25.4    | $\phi$ 25.4    | $\phi$ 25.4    |
|                                     |                                       | inch                | 7/8                            | 1              | 1              | 1              |
| Connectable Indoor Units            | Quantity                              | pcs                 | 64                             | 64             | 64             | 64             |
|                                     | Connection Ratio                      | —                   | 50%~160%                       |                |                |                |
| Piping Design                       | Max. Total Piping Length              |                     | m                              |                |                |                |
|                                     | Max. Piping Length                    | Actual Length       | m                              |                |                |                |
|                                     |                                       | Equivalent Length   | m                              |                |                |                |
|                                     | Height Difference Between ODU and IDU |                     | m                              |                |                |                |
|                                     | Height Difference Between IDUs        |                     | m                              |                |                |                |
| Cooling Operating Range             |                                       | $^{\circ}$ CDB      | 10~52                          |                |                |                |

NOTES:

- Rated capacity is tested in the following conditions:  
Cooling conditions: indoor air inlet temperature: 27 $^{\circ}$ C DB 19 $^{\circ}$ C WB, Outdoor air inlet temperature: 35 $^{\circ}$ C DB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.  
Measurement point: 1 meter from the service cover surface and 1.5 meters from floor level.

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 74HP                           | 76HP           | 78HP           | 80HP           |
|-------------------------------------|---------------------------------------|---------------------|--------------------------------|----------------|----------------|----------------|
| Model                               |                                       |                     | AVWT-714CKFSE                  | AVWT-732CKFSE  | AVWT-754CKFSE  | AVWT-776CKFSE  |
| Combination                         |                                       |                     | AVWT-232CKFSE                  | AVWT-232CKFSE  | AVWT-232CKFSE  | AVWT-232CKFSE  |
|                                     |                                       |                     | AVWT-232CKFSE                  | AVWT-250CKFSE  | AVWT-250CKFSE  | AVWT-272CKFSE  |
|                                     |                                       |                     | AVWT-250CKFSE                  | AVWT-250CKFSE  | AVWT-272CKFSE  | AVWT-272CKFSE  |
|                                     |                                       |                     | /                              | /              | /              | /              |
| Power Supply                        |                                       |                     | AC 3 $\phi$ , 380-415V/50/60Hz |                |                |                |
| Cooling Operation                   | Capacity                              | kW                  | 208.5                          | 213.0          | 220.5          | 228.0          |
|                                     |                                       | kBtu/h              | 711.4                          | 726.8          | 752.4          | 778.0          |
|                                     | Power Input                           | kW                  | 60.18                          | 60.90          | 64.24          | 67.58          |
|                                     | EER                                   | W/W                 | 3.46                           | 3.50           | 3.43           | 3.37           |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 942                            | 996            | 996            | 996            |
|                                     | Fan Quantity                          | pcs                 | 6                              | 6              | 6              | 6              |
|                                     | Static Pressure                       | Pa                  | 110                            | 110            | 110            | 110            |
| Sound Pressure Level(Normal/Silent) |                                       | dB(A)               | 70/54                          | 70/54          | 71/54          | 71/54          |
| Compressor                          | Type                                  | —                   | Scroll Compressor              |                |                |                |
|                                     | Quantity                              | pcs                 | 6                              | 6              | 6              | 6              |
| Refrigerant                         | Type                                  | —                   | R410A                          |                |                |                |
|                                     | Pre-charged Quantity                  | kg                  | 13.4+13.4+14.7                 | 13.4+14.7+14.7 | 13.4+14.7+14.7 | 13.4+14.7+14.7 |
| Weight                              | Net Weight                            | kg                  | 359+359+376                    | 359+376+376    | 359+376+377    | 359+377+377    |
|                                     | Gross Weight                          | kg                  | 391+391+414                    | 391+414+414    | 391+414+416    | 391+416+416    |
| Cabinet Color                       |                                       | —                   | Ivory White                    |                |                |                |
| Net Dimensions                      | Height                                | mm                  | 1730                           | 1730           | 1730           | 1730           |
|                                     | Width                                 | mm                  | 1350+1350+1600                 | 1350+1600+1600 | 1350+1600+1600 | 1350+1600+1600 |
|                                     | Depth                                 | mm                  | 750                            | 750            | 750            | 750            |
| Packing Dimensions                  | Height                                | mm                  | 1950                           | 1950           | 1950           | 1950           |
|                                     | Width                                 | mm                  | 1420+1420+1665                 | 1420+1665+1665 | 1420+1665+1665 | 1420+1665+1665 |
|                                     | Depth                                 | mm                  | 790                            | 790            | 790            | 790            |
| Ref. Piping                         | Gas                                   | mm                  | $\phi$ 50.8                    | $\phi$ 50.8    | $\phi$ 50.8    | $\phi$ 50.8    |
|                                     |                                       | inch                | 2                              | 2              | 2              | 2              |
|                                     | Liquid                                | mm                  | $\phi$ 25.4                    | $\phi$ 25.4    | $\phi$ 25.4    | $\phi$ 25.4    |
|                                     |                                       | inch                | 1                              | 1              | 1              | 1              |
| Connectable Indoor Units            | Quantity                              | pcs                 | 64                             | 64             | 64             | 64             |
|                                     | Connection Ratio                      | —                   | 50%~160%                       |                |                |                |
| Piping Design                       | Max. Total Piping Length              |                     | m                              |                |                |                |
|                                     | Max. Piping Length                    | Actual Length       | m                              |                |                |                |
|                                     |                                       | Equivalent Length   | m                              |                |                |                |
|                                     | Height Difference Between ODU and IDU |                     | m                              |                |                |                |
|                                     | Height Difference Between IDUs        |                     | m                              |                |                |                |
| Cooling Operating Range             |                                       | $^{\circ}$ CDB      | 10~52                          |                |                |                |

NOTES:

- The final appearance of outdoor units is subject to the actual products.
- When the operation temperature is under 48 $^{\circ}$ C DB ~ 52 $^{\circ}$ C DB, please contact with our professional engineer.
- \*1: If height difference between ODU&IDU more than 50(40)m, please contact with our professional engineer.
- \*2: If the height difference between indoor units is more than 15m, please contact with our professional engineer.

## Standard Combination

### Outdoor Unit Specifications



| Capacity                            |                                       |                   | 82HP                    | 84HP           | 86HP                | 88HP                |
|-------------------------------------|---------------------------------------|-------------------|-------------------------|----------------|---------------------|---------------------|
| Model                               |                                       |                   | AVWT-794CKFSE           | AVWT-816CKFSE  | AVWT-824CKFSE       | AVWT-844CKFSE       |
| Combination                         |                                       |                   | AVWT-250CKFSE           | AVWT-272CKFSE  | AVWT-190CKFSE       | AVWT-190CKFSE       |
|                                     |                                       |                   | AVWT-272CKFSE           | AVWT-272CKFSE  | AVWT-190CKFSE       | AVWT-190CKFSE       |
|                                     |                                       |                   | AVWT-272CKFSE           | AVWT-272CKFSE  | AVWT-212CKFSE       | AVWT-232CKFSE       |
|                                     |                                       |                   | /                       | /              | AVWT-232CKFSE       | AVWT-232CKFSE       |
| Power Supply                        |                                       |                   | AC 3Φ, 380-415V/50/60Hz |                |                     |                     |
| Cooling Operation                   | Capacity                              | kW                | 232.5                   | 240.0          | 241.5               | 248.0               |
|                                     |                                       | kBtu/h            | 793.4                   | 819.0          | 824.0               | 846.2               |
|                                     | Power Input                           | kW                | 68.30                   | 71.64          | 67.85               | 70.00               |
|                                     | EER                                   | W/W               | 3.40                    | 3.35           | 3.56                | 3.54                |
| Ventilation                         | Air Flow Rate                         | m³/min            | 1050                    | 1050           | 1126                | 1126                |
|                                     | Fan Quantity                          | pcs               | 6                       | 6              | 8                   | 8                   |
|                                     | Static Pressure                       | Pa                | 110                     | 110            | 110                 | 110                 |
| Sound Pressure Level(Normal/Silent) |                                       | dB(A)             | 71/55                   | 72/55          | 70/54               | 70/54               |
| Compressor                          | Type                                  | —                 | Scroll Compressor       |                |                     |                     |
|                                     | Quantity                              | pcs               | 6                       | 6              | 8                   | 8                   |
| Refrigerant                         | Type                                  | —                 | R410A                   |                |                     |                     |
|                                     | Pre-charged Quantity                  | kg                | 14.7+14.7+14.7          | 14.7+14.7+14.7 | 13.4+13.4+13.4+13.4 | 13.4+13.4+13.4+13.4 |
| Weight                              | Net Weight                            | kg                | 376+377+377             | 377+377+377    | 347+347+358+359     | 347+347+359+359     |
|                                     | Gross Weight                          | kg                | 414+416+416             | 416+416+416    | 380+380+390+391     | 380+380+391+391     |
| Cabinet Color                       |                                       | —                 | Ivory White             |                |                     |                     |
| Net Dimensions                      | Height                                | mm                | 1730                    | 1730           | 1730                | 1730                |
|                                     | Width                                 | mm                | 1600+1600+1600          | 1600+1600+1600 | 1350+1350+1350+1350 | 1350+1350+1350+1350 |
|                                     | Depth                                 | mm                | 750                     | 750            | 750                 | 750                 |
| Packing Dimensions                  | Height                                | mm                | 1950                    | 1950           | 1950                | 1950                |
|                                     | Width                                 | mm                | 1665+1665+1665          | 1665+1665+1665 | 1420+1420+1420+1420 | 1420+1420+1420+1420 |
|                                     | Depth                                 | mm                | 790                     | 790            | 790                 | 790                 |
| 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                              | pcs               | 64                      | 64             | 64                  | 64                  |
|                                     | Connection Ratio                      | —                 | 50%~160%                |                | 50%~150%            |                     |
| Piping Design                       | Max. Total Piping Length              |                   | m                       |                |                     |                     |
|                                     | Max. Piping Length                    | Actual Length     | m                       |                |                     |                     |
|                                     |                                       | Equivalent Length | m                       |                |                     |                     |
|                                     | Height Difference Between ODU and IDU |                   | m                       |                |                     |                     |
|                                     | Height Difference Between IDUs        |                   | m                       |                |                     |                     |
| Cooling Operating Range             |                                       | °CDB              | 10~52                   |                |                     |                     |

NOTES:

- Rated 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 difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.  
Measurement point: 1 meter from the service cover surface and 1.5 meters from floor level.

### Outdoor Unit Specifications



| Capacity                            |                                       |                   | 90HP                    | 92HP                | 94HP                | 96HP                |
|-------------------------------------|---------------------------------------|-------------------|-------------------------|---------------------|---------------------|---------------------|
| Model                               |                                       |                   | AVWT-866CKFSE           | AVWT-886CKFSE       | AVWT-908CKFSE       | AVWT-928CKFSE       |
| Combination                         |                                       |                   | AVWT-190CKFSE           | AVWT-190CKFSE       | AVWT-212CKFSE       | AVWT-232CKFSE       |
|                                     |                                       |                   | AVWT-212CKFSE           | AVWT-232CKFSE       | AVWT-232CKFSE       | AVWT-232CKFSE       |
|                                     |                                       |                   | AVWT-232CKFSE           | AVWT-232CKFSE       | AVWT-232CKFSE       | AVWT-232CKFSE       |
|                                     |                                       |                   | AVWT-232CKFSE           | AVWT-232CKFSE       | AVWT-232CKFSE       | AVWT-232CKFSE       |
| Power Supply                        |                                       |                   | AC 3Φ, 380-415V/50/60Hz |                     |                     |                     |
| Cooling Operation                   | Capacity                              | kW                | 253.5                   | 260.0               | 265.5               | 272.0               |
|                                     |                                       | kBtu/h            | 864.9                   | 887.1               | 905.8               | 928.0               |
|                                     | Power Input                           | kW                | 72.49                   | 74.64               | 77.13               | 79.28               |
|                                     | EER                                   | W/W               | 3.50                    | 3.48                | 3.44                | 3.43                |
| Ventilation                         | Air Flow Rate                         | m³/min            | 1155                    | 1155                | 1184                | 1184                |
|                                     | Fan Quantity                          | pcs               | 8                       | 8                   | 8                   | 8                   |
|                                     | Static Pressure                       | Pa                | 110                     | 110                 | 110                 | 110                 |
| Sound Pressure Level(Normal/Silent) |                                       | dB(A)             | 70/54                   | 71/54               | 71/54               | 71/54               |
| Compressor                          | Type                                  | —                 | Scroll Compressor       |                     |                     |                     |
|                                     | Quantity                              | pcs               | 8                       | 8                   | 8                   | 8                   |
| Refrigerant                         | Type                                  | —                 | R410A                   |                     |                     |                     |
|                                     | Pre-charged Quantity                  | kg                | 13.4+13.4+13.4+13.4     | 13.4+13.4+13.4+13.4 | 13.4+13.4+13.4+13.4 | 13.4+13.4+13.4+13.4 |
| Weight                              | Net Weight                            | kg                | 347+358+359+359         | 347+359+359+359     | 358+359+359+359     | 359+359+359+359     |
|                                     | Gross Weight                          | kg                | 380+390+391+391         | 380+391+391+391     | 390+391+391+391     | 391+391+391+391     |
| Cabinet Color                       |                                       | —                 | Ivory White             |                     |                     |                     |
| Net Dimensions                      | Height                                | mm                | 1730                    | 1730                | 1730                | 1730                |
|                                     | Width                                 | mm                | 1350+1350+1350+1350     | 1350+1350+1350+1350 | 1350+1350+1350+1350 | 1350+1350+1350+1350 |
|                                     | Depth                                 | mm                | 750                     | 750                 | 750                 | 750                 |
| Packing Dimensions                  | Height                                | mm                | 1950                    | 1950                | 1950                | 1950                |
|                                     | Width                                 | mm                | 1420+1420+1420+1420     | 1420+1420+1420+1420 | 1420+1420+1420+1420 | 1420+1420+1420+1420 |
|                                     | Depth                                 | mm                | 790                     | 790                 | 790                 | 790                 |
| 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                              | pcs               | 64                      | 64                  | 64                  | 64                  |
|                                     | Connection Ratio                      | —                 | 50%~150%                |                     |                     |                     |
| Piping Design                       | Max. Total Piping Length              |                   | m                       |                     |                     |                     |
|                                     | Max. Piping Length                    | Actual Length     | m                       |                     |                     |                     |
|                                     |                                       | Equivalent Length | m                       |                     |                     |                     |
|                                     | Height Difference Between ODU and IDU |                   | m                       |                     |                     |                     |
|                                     | Height Difference Between IDUs        |                   | m                       |                     |                     |                     |
| Cooling Operating Range             |                                       | °CDB              | 10~52                   |                     |                     |                     |

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

- When the operation temperature is under 48°C DB ~ 52°C DB, please contact with our professional engineer.
- \*1: If height difference between ODU&IDU more than 50(40)m, please contact with our professional engineer.
- \*2: If the height difference between indoor units is more than 15m, please contact with our professional engineer.



## Standard Combination

### Outdoor Unit Specifications



| Capacity                            |                                       |                                 | 98HP                            | 100HP               | 102HP               | 104HP               |
|-------------------------------------|---------------------------------------|---------------------------------|---------------------------------|---------------------|---------------------|---------------------|
| Model                               |                                       |                                 | AVWT-946CKFSE                   | AVWT-968CKFSE       | AVWT-986CKFSE       | AVWT-1008CKFSE      |
| Combination                         |                                       |                                 | AVWT-232CKFSE                   | AVWT-232CKFSE       | AVWT-232CKFSE       | AVWT-232CKFSE       |
|                                     |                                       |                                 | AVWT-232CKFSE                   | AVWT-232CKFSE       | AVWT-232CKFSE       | AVWT-232CKFSE       |
|                                     |                                       |                                 | AVWT-232CKFSE                   | AVWT-232CKFSE       | AVWT-250CKFSE       | AVWT-272CKFSE       |
|                                     |                                       |                                 | AVWT-250CKFSE                   | AVWT-272CKFSE       | AVWT-272CKFSE       | AVWT-272CKFSE       |
| Power Supply                        |                                       |                                 | AC 3ϕ, 380-415V/50/60Hz         |                     |                     |                     |
| Cooling Operation                   | Capacity                              | kW                              | 276.5                           | 284.0               | 288.5               | 296.0               |
|                                     |                                       | kBtu/h                          | 943.4                           | 969.0               | 984.4               | 1010.0              |
|                                     | Power Input                           | kW                              | 80.00                           | 83.34               | 84.06               | 87.40               |
|                                     | EER                                   | W/W                             | 3.46                            | 3.41                | 3.43                | 3.39                |
| Ventilation                         | Air Flow Rate                         | m³/min                          | 1238                            | 1238                | 1292                | 1292                |
|                                     | Fan Quantity                          | pcs                             | 8                               | 8                   | 8                   | 8                   |
|                                     | Static Pressure                       | Pa                              | 110                             | 110                 | 110                 | 110                 |
| Sound Pressure Level(Normal/Silent) |                                       |                                 | dB(A)                           |                     |                     |                     |
|                                     |                                       |                                 | 71/55                           | 72/55               | 72/55               | 72/55               |
| Compressor                          | Type                                  | —                               | Scroll Compressor               |                     |                     |                     |
|                                     | Quantity                              | pcs                             | 8                               | 8                   | 8                   | 8                   |
| Refrigerant                         | Type                                  | —                               | R410A                           |                     |                     |                     |
|                                     | Pre-charged Quantity                  | kg                              | 13.4+13.4+13.4+14.7             | 13.4+13.4+13.4+14.7 | 13.4+13.4+14.7+14.7 | 13.4+13.4+14.7+14.7 |
| Weight                              | Net Weight                            | kg                              | 359+359+359+376                 | 359+359+359+377     | 359+359+376+377     | 359+359+377+377     |
|                                     | Gross Weight                          | kg                              | 391+391+391+414                 | 391+391+391+416     | 391+391+414+416     | 391+391+416+416     |
| Cabinet Color                       |                                       |                                 | Ivory White                     |                     |                     |                     |
| Net Dimensions                      | Height                                | mm                              | 1730                            | 1730                | 1730                | 1730                |
|                                     | Width                                 | mm                              | 1350+1350+1350+1600             | 1350+1350+1350+1600 | 1350+1350+1600+1600 | 1350+1350+1600+1600 |
|                                     | Depth                                 | mm                              | 750                             | 750                 | 750                 | 750                 |
| Packing Dimensions                  | Height                                | mm                              | 1950                            | 1950                | 1950                | 1950                |
|                                     | Width                                 | mm                              | 1420+1420+1420+1665             | 1420+1420+1420+1665 | 1420+1420+1665+1665 | 1420+1420+1665+1665 |
|                                     | Depth                                 | mm                              | 790                             | 790                 | 790                 | 790                 |
| 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                              | pcs                             | 64                              | 64                  | 64                  | 64                  |
|                                     | Connection Ratio                      | —                               | 50%~150%                        |                     |                     |                     |
| Piping Design                       | Max. Total Piping Length              |                                 | m                               |                     |                     |                     |
|                                     | Max. Piping Length                    | Actual Length                   | m                               |                     |                     |                     |
|                                     |                                       | Equivalent Length               | m                               |                     |                     |                     |
|                                     | Height Difference Between ODU and IDU |                                 | m                               |                     |                     |                     |
|                                     |                                       |                                 | When the ODU is above: 50(90°*) |                     |                     |                     |
| Height Difference Between IDUs      |                                       | m                               |                                 |                     |                     |                     |
|                                     |                                       | When the ODU is below: 40(90°*) |                                 |                     |                     |                     |
| Cooling Operating Range             |                                       | °CDB                            | 10~52                           |                     |                     |                     |

NOTES:

- Rated 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 difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.  
Measurement point: 1 meter from the service cover surface and 1.5 meters from floor level.

### Outdoor Unit Specifications



| Capacity                            |                                       |                                 | 106HP                           | 108HP               | 110HP               | 112HP               |
|-------------------------------------|---------------------------------------|---------------------------------|---------------------------------|---------------------|---------------------|---------------------|
| Model                               |                                       |                                 | AVWT-1026CKFSE                  | AVWT-1048CKFSE      | AVWT-1066CKFSE      | AVWT-1088CKFSE      |
| Combination                         |                                       |                                 | AVWT-232CKFSE                   | AVWT-232CKFSE       | AVWT-250CKFSE       | AVWT-272CKFSE       |
|                                     |                                       |                                 | AVWT-250CKFSE                   | AVWT-272CKFSE       | AVWT-272CKFSE       | AVWT-272CKFSE       |
|                                     |                                       |                                 | AVWT-272CKFSE                   | AVWT-272CKFSE       | AVWT-272CKFSE       | AVWT-272CKFSE       |
|                                     |                                       |                                 | AVWT-272CKFSE                   | AVWT-272CKFSE       | AVWT-272CKFSE       | AVWT-272CKFSE       |
| Power Supply                        |                                       |                                 | AC 3ϕ, 380-415V/50/60Hz         |                     |                     |                     |
| Cooling Operation                   | Capacity                              | kW                              | 300.5                           | 308.0               | 312.5               | 320.0               |
|                                     |                                       | kBtu/h                          | 1025.4                          | 1051.0              | 1066.4              | 1092.0              |
|                                     | Power Input                           | kW                              | 88.12                           | 91.46               | 92.18               | 95.52               |
|                                     | EER                                   | W/W                             | 3.41                            | 3.37                | 3.39                | 3.35                |
| Ventilation                         | Air Flow Rate                         | m³/min                          | 1346                            | 1346                | 1400                | 1400                |
|                                     | Fan Quantity                          | pcs                             | 8                               | 8                   | 8                   | 8                   |
|                                     | Static Pressure                       | Pa                              | 110                             | 110                 | 110                 | 110                 |
| Sound Pressure Level(Normal/Silent) |                                       |                                 | dB(A)                           |                     |                     |                     |
|                                     |                                       |                                 | 72/56                           | 73/56               | 73/56               | 73/56               |
| Compressor                          | Type                                  | —                               | Scroll Compressor               |                     |                     |                     |
|                                     | Quantity                              | pcs                             | 8                               | 8                   | 8                   | 8                   |
| Refrigerant                         | Type                                  | —                               | R410A                           |                     |                     |                     |
|                                     | Pre-charged Quantity                  | kg                              | 13.4+14.7+14.7+14.7             | 13.4+14.7+14.7+14.7 | 14.7+14.7+14.7+14.7 | 14.7+14.7+14.7+14.7 |
| Weight                              | Net Weight                            | kg                              | 359+376+377+377                 | 359+377+377+377     | 376+377+377+377     | 377+377+377+377     |
|                                     | Gross Weight                          | kg                              | 391+414+416+416                 | 391+416+416+416     | 414+416+416+416     | 416+416+416+416     |
| Cabinet Color                       |                                       |                                 | Ivory White                     |                     |                     |                     |
| Net Dimensions                      | Height                                | mm                              | 1730                            | 1730                | 1730                | 1730                |
|                                     | Width                                 | mm                              | 1350+1600+1600+1600             | 1350+1600+1600+1600 | 1600+1600+1600+1600 | 1600+1600+1600+1600 |
|                                     | Depth                                 | mm                              | 750                             | 750                 | 750                 | 750                 |
| Packing Dimensions                  | Height                                | mm                              | 1950                            | 1950                | 1950                | 1950                |
|                                     | Width                                 | mm                              | 1420+1665+1665+1665             | 1420+1665+1665+1665 | 1665+1665+1665+1665 | 1665+1665+1665+1665 |
|                                     | Depth                                 | mm                              | 790                             | 790                 | 790                 | 790                 |
| 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                              | pcs                             | 64                              | 64                  | 64                  | 64                  |
|                                     | Connection Ratio                      | —                               | 50%~150%                        |                     |                     |                     |
| Piping Design                       | Max. Total Piping Length              |                                 | m                               |                     |                     |                     |
|                                     | Max. Piping Length                    | Actual Length                   | m                               |                     |                     |                     |
|                                     |                                       | Equivalent Length               | m                               |                     |                     |                     |
|                                     | Height Difference Between ODU and IDU |                                 | m                               |                     |                     |                     |
|                                     |                                       |                                 | When the ODU is above: 50(90°*) |                     |                     |                     |
| Height Difference Between IDUs      |                                       | m                               |                                 |                     |                     |                     |
|                                     |                                       | When the ODU is below: 40(90°*) |                                 |                     |                     |                     |
| Cooling Operating Range             |                                       | °CDB                            | 10~52                           |                     |                     |                     |

NOTES:

- The final appearance of outdoor units is subject to the actual products.
- When the operation temperature is under 48°C DB ~ 52°C DB, please contact with our professional engineer.
- \*1: If height difference between ODU&IDU more than 50(40)m, please contact with our professional engineer.
- \*2: If the height difference between indoor units is more than 15m, please contact with our professional engineer.

## High-efficiency Combination

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 16HP                           | 18HP          | 20HP          | 22HP          | 24HP          |       |
|-------------------------------------|---------------------------------------|---------------------|--------------------------------|---------------|---------------|---------------|---------------|-------|
| Model                               |                                       |                     | AVWT-152CKFSH                  | AVWT-172CKFSH | AVWT-192CKFSH | AVWT-210CKFSH | AVWT-228CKFSH |       |
| Combination                         |                                       |                     | AVWT-76CKFSE                   | AVWT-76CKFSE  | AVWT-96CKFSE  | AVWT-96CKFSE  | AVWT-114CKFSE |       |
|                                     |                                       |                     | AVWT-76CKFSE                   | AVWT-96CKFSE  | AVWT-114CKFSE | AVWT-114CKFSE | AVWT-114CKFSE |       |
| Power Supply                        |                                       |                     | AC 3 $\phi$ , 380-415V/50/60Hz |               |               |               |               |       |
| Cooling Operation                   | Capacity                              | kW                  | 44.8                           | 50.4          | 56.0          | 61.5          | 67.0          |       |
|                                     |                                       | kBtu/h              | 152.8                          | 171.9         | 191.0         | 209.8         | 228.6         |       |
|                                     | Power Input                           | kW                  | 9.62                           | 11.35         | 13.08         | 14.46         | 15.84         |       |
|                                     |                                       | EER                 | W/W                            | 4.66          | 4.44          | 4.28          | 4.25          | 4.23  |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 366                            | 366           | 366           | 366           | 366           |       |
|                                     | Fan Quantity                          | pcs                 | 2                              | 2             | 2             | 2             | 2             |       |
|                                     | Static Pressure                       | Pa                  | 110                            | 110           | 110           | 110           | 110           |       |
| Sound Pressure Level(Normal/Silent) |                                       |                     | dB(A)                          | 62/45         | 63/45         | 64/45         | 64/46         | 64/47 |
| Compressor                          | Type                                  | —                   | Scroll Compressor              |               |               |               |               |       |
|                                     | Quantity                              | pcs                 | 2                              | 2             | 2             | 2             | 2             |       |
| Refrigerant                         | Type                                  | —                   | R410A                          |               |               |               |               |       |
|                                     | Pre-charged Quantity                  | kg                  | 6.4+6.4                        | 6.4+6.4       | 6.4+6.4       | 6.4+7.8       | 7.8+7.8       |       |
| Weight                              | Net Weight                            | kg                  | 212+212                        | 212+213       | 213+213       | 213+218       | 218+218       |       |
|                                     | Gross Weight                          | kg                  | 240+240                        | 240+241       | 241+241       | 241+246       | 246+246       |       |
| Cabinet Color                       |                                       |                     | Ivory White                    |               |               |               |               |       |
| Net Dimensions                      | Height                                | mm                  | 1730                           | 1730          | 1730          | 1730          | 1730          |       |
|                                     | Width                                 | mm                  | 950+950                        | 950+950       | 950+950       | 950+950       | 950+950       |       |
|                                     | Depth                                 | mm                  | 750                            | 750           | 750           | 750           | 750           |       |
| Packing Dimensions                  | Height                                | mm                  | 1950                           | 1950          | 1950          | 1950          | 1950          |       |
|                                     | Width                                 | mm                  | 1015+1015                      | 1015+1015     | 1015+1015     | 1015+1015     | 1015+1015     |       |
|                                     | Depth                                 | mm                  | 790                            | 790           | 790           | 790           | 790           |       |
| Ref. Piping                         | Gas                                   | mm                  | $\phi$ 28.60                   | $\phi$ 28.60  | $\phi$ 28.60  | $\phi$ 28.60  | $\phi$ 28.60  |       |
|                                     |                                       | inch                | 1-1/8                          | 1-1/8         | 1-1/8         | 1-1/8         | 1-1/8         |       |
|                                     | Liquid                                | mm                  | $\phi$ 12.70                   | $\phi$ 15.88  | $\phi$ 15.88  | $\phi$ 15.88  | $\phi$ 15.88  |       |
|                                     |                                       | inch                | 1/2                            | 5/8           | 5/8           | 5/8           | 5/8           |       |
| Connectable Indoor Units            | Quantity                              | pcs                 | 26                             | 29            | 33            | 36            | 40            |       |
|                                     | Connection Ratio                      | —                   | 50%~180%                       |               |               |               |               |       |
| Piping Design                       | Max. Total Piping Length              |                     | m                              |               |               |               |               |       |
|                                     | Max. Piping Length                    | Actual Length       | m                              |               |               |               |               |       |
|                                     |                                       | Equivalent Length   | m                              |               |               |               |               |       |
|                                     | Height Difference Between ODU and IDU |                     | m                              |               |               |               |               |       |
|                                     | Height Difference Between IDUs        |                     | m                              |               |               |               |               |       |
| Cooling Operating Range             |                                       |                     | °CDB                           |               |               |               |               |       |

NOTES:

- Rated 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 difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.  
Measurement point: 1 meter from the service cover surface and 1.5 meters from floor level.

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 26HP                           | 28HP           | 30HP           | 32HP           | 34HP           |       |
|-------------------------------------|---------------------------------------|---------------------|--------------------------------|----------------|----------------|----------------|----------------|-------|
| Model                               |                                       |                     | AVWT-250CKFSH                  | AVWT-268CKFSH  | AVWT-288CKFSH  | AVWT-306CKFSH  | AVWT-324CKFSH  |       |
| Combination                         |                                       |                     | AVWT-114CKFSE                  | AVWT-76CKFSE   | AVWT-96CKFSE   | AVWT-96CKFSE   | AVWT-96CKFSE   |       |
|                                     |                                       |                     | AVWT-136CKFSE                  | AVWT-96CKFSE   | AVWT-96CKFSE   | AVWT-96CKFSE   | AVWT-114CKFSE  |       |
| Power Supply                        |                                       |                     | AC 3 $\phi$ , 380-415V/50/60Hz |                |                |                |                |       |
| Cooling Operation                   | Capacity                              | kW                  | 73.5                           | 78.4           | 84.0           | 89.5           | 95.0           |       |
|                                     |                                       | kBtu/h              | 250.8                          | 267.4          | 286.5          | 305.3          | 324.1          |       |
|                                     | Power Input                           | kW                  | 18.10                          | 17.89          | 19.62          | 21.00          | 22.38          |       |
|                                     |                                       | EER                 | W/W                            | 4.06           | 4.38           | 4.28           | 4.26           | 4.24  |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 383                            | 549            | 549            | 549            | 549            |       |
|                                     | Fan Quantity                          | pcs                 | 3                              | 3              | 3              | 3              | 3              |       |
|                                     | Static Pressure                       | Pa                  | 110                            | 110            | 110            | 110            | 110            |       |
| Sound Pressure Level(Normal/Silent) |                                       |                     | dB(A)                          | 65/47          | 65/47          | 66/47          | 66/48          | 66/48 |
| Compressor                          | Type                                  | —                   | Scroll Compressor              |                |                |                |                |       |
|                                     | Quantity                              | pcs                 | 2                              | 3              | 3              | 3              | 3              |       |
| Refrigerant                         | Type                                  | —                   | R410A                          |                |                |                |                |       |
|                                     | Pre-charged Quantity                  | kg                  | 7.8+10.0                       | 6.4+6.4+6.4    | 6.4+6.4+6.4    | 6.4+6.4+7.8    | 6.4+7.8+7.8    |       |
| Weight                              | Net Weight                            | kg                  | 218+260                        | 212+213+213    | 213+213+213    | 213+213+218    | 213+218+218    |       |
|                                     | Gross Weight                          | kg                  | 246+291                        | 240+241+241    | 241+241+241    | 241+241+246    | 241+246+246    |       |
| Cabinet Color                       |                                       |                     | Ivory White                    |                |                |                |                |       |
| Net Dimensions                      | Height                                | mm                  | 1730                           | 1730           | 1730           | 1730           | 1730           |       |
|                                     | Width                                 | mm                  | 950+1210                       | 950+950+950    | 950+950+950    | 950+950+950    | 950+950+950    |       |
|                                     | Depth                                 | mm                  | 750                            | 750            | 750            | 750            | 750            |       |
| Packing Dimensions                  | Height                                | mm                  | 1950                           | 1950           | 1950           | 1950           | 1950           |       |
|                                     | Width                                 | mm                  | 1015+1275                      | 1015+1015+1015 | 1015+1015+1015 | 1015+1015+1015 | 1015+1015+1015 |       |
|                                     | Depth                                 | mm                  | 790                            | 790            | 790            | 790            | 790            |       |
| Ref. Piping                         | Gas                                   | mm                  | $\phi$ 31.75                   | $\phi$ 31.75   | $\phi$ 31.75   | $\phi$ 31.75   | $\phi$ 38.1    |       |
|                                     |                                       | inch                | 1-1/4                          | 1-1/4          | 1-1/4          | 1-1/4          | 1-1/2          |       |
|                                     | Liquid                                | mm                  | $\phi$ 19.05                   | $\phi$ 19.05   | $\phi$ 19.05   | $\phi$ 19.05   | $\phi$ 19.05   |       |
|                                     |                                       | inch                | 3/4                            | 3/4            | 3/4            | 3/4            | 3/4            |       |
| Connectable Indoor Units            | Quantity                              | pcs                 | 43                             | 47             | 50             | 53             | 56             |       |
|                                     | Connection Ratio                      | —                   | 50%~180%                       | 50%~160%       |                |                |                |       |
| Piping Design                       | Max. Total Piping Length              |                     | m                              |                |                |                |                |       |
|                                     | Max. Piping Length                    | Actual Length       | m                              |                |                |                |                |       |
|                                     |                                       | Equivalent Length   | m                              |                |                |                |                |       |
|                                     | Height Difference Between ODU and IDU |                     | m                              |                |                |                |                |       |
|                                     | Height Difference Between IDUs        |                     | m                              |                |                |                |                |       |
| Cooling Operating Range             |                                       |                     | °CDB                           |                |                |                |                |       |

NOTES:

- The final appearance of outdoor units is subject to the actual products.
- When the operation temperature is under 48°C DB ~ 52°C DB, please contact with our professional engineer.
- \*1: If height difference between ODU&IDU more than 50(40)m, please contact with our professional engineer.
- \*2: If the height difference between indoor units is more than 15m, please contact with our professional engineer.



## High-efficiency Combination

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 36HP                    | 38HP           | 40HP           | 42HP                | 44HP                |
|-------------------------------------|---------------------------------------|---------------------|-------------------------|----------------|----------------|---------------------|---------------------|
| Model                               |                                       |                     | AVWT-342CKFSH           | AVWT-364CKFSH  | AVWT-386CKFSH  | AVWT-402CKFSH       | AVWT-420CKFSH       |
| Combination                         |                                       |                     | AVWT-114CKFSE           | AVWT-114CKFSE  | AVWT-114CKFSE  | AVWT-96CKFSE        | AVWT-96CKFSE        |
|                                     |                                       |                     | AVWT-114CKFSE           | AVWT-114CKFSE  | AVWT-136CKFSE  | AVWT-96CKFSE        | AVWT-96CKFSE        |
|                                     |                                       |                     | AVWT-114CKFSE           | AVWT-136CKFSE  | AVWT-136CKFSE  | AVWT-96CKFSE        | AVWT-114CKFSE       |
|                                     |                                       |                     | /                       | /              | /              | AVWT-114CKFSE       | AVWT-114CKFSE       |
| Power Supply                        |                                       |                     | AC 3φ, 380-415V/50/60Hz |                |                |                     |                     |
| Cooling Operation                   | Capacity                              | kW                  | 100.5                   | 107.0          | 113.5          | 117.5               | 123.0               |
|                                     |                                       | kBtu/h              | 342.9                   | 365.1          | 387.3          | 400.8               | 419.6               |
|                                     | Power Input                           | kW                  | 23.76                   | 26.02          | 28.28          | 27.54               | 28.92               |
|                                     | EER                                   | W/W                 | 4.23                    | 4.11           | 4.01           | 4.27                | 4.25                |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 549                     | 566            | 583            | 732                 | 732                 |
|                                     | Fan Quantity                          | pcs                 | 3                       | 4              | 5              | 4                   | 4                   |
|                                     | Static Pressure                       | Pa                  | 110                     | 110            | 110            | 110                 | 110                 |
| Sound Pressure Level(Normal/Silent) |                                       |                     | dB(A)                   |                |                |                     |                     |
|                                     |                                       |                     | 66/49                   | 66/49          | 66/49          | 67/49               | 67/49               |
| Compressor                          | Type                                  | —                   | Scroll Compressor       |                |                |                     |                     |
|                                     | Quantity                              | pcs                 | 3                       | 3              | 3              | 4                   | 4                   |
| Refrigerant                         | Type                                  | —                   | R410A                   |                |                |                     |                     |
|                                     | Pre-charged Quantity                  | kg                  | 7.8+7.8+7.8             | 7.8+7.8+10.0   | 7.8+10.0+10.0  | 6.4+6.4+6.4+7.8     | 6.4+6.4+7.8+7.8     |
| Weight                              | Net Weight                            | kg                  | 218+218+218             | 218+218+260    | 218+260+260    | 213+213+213+218     | 213+213+218+218     |
|                                     | Gross Weight                          | kg                  | 246+246+246             | 246+246+291    | 246+291+291    | 241+241+241+246     | 241+241+246+246     |
| Cabinet Color                       |                                       |                     | Ivory White             |                |                |                     |                     |
| Net Dimensions                      | Height                                | mm                  | 1730                    | 1730           | 1730           | 1730                | 1730                |
|                                     | Width                                 | mm                  | 950+950+950             | 950+950+1210   | 950+1210+1210  | 950+950+950+950     | 950+950+950+950     |
|                                     | Depth                                 | mm                  | 750                     | 750            | 750            | 750                 | 750                 |
| Packing Dimensions                  | Height                                | mm                  | 1950                    | 1950           | 1950           | 1950                | 1950                |
|                                     | Width                                 | mm                  | 1015+1015+1015          | 1015+1015+1275 | 1015+1275+1275 | 1015+1015+1015+1015 | 1015+1015+1015+1015 |
|                                     | Depth                                 | mm                  | 790                     | 790            | 790            | 790                 | 790                 |
| 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                              | pcs                 | 59                      | 64             | 64             | 64                  | 64                  |
|                                     | Connection Ratio                      | —                   | 50%~160%                |                |                | 50%~150%            |                     |
| Piping Design                       | Max. Total Piping Length              |                     | m                       |                |                |                     |                     |
|                                     | Max. Piping Length                    | Actual Length       | m                       |                |                |                     |                     |
|                                     |                                       | Equivalent Length   | m                       |                |                |                     |                     |
|                                     | Height Difference Between ODU and IDU |                     | m                       |                |                |                     |                     |
|                                     | Height Difference Between IDUs        |                     | m                       |                |                |                     |                     |
| Cooling Operating Range             |                                       |                     | °CDB                    |                |                |                     |                     |

NOTES:

- Rated 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 difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.  
Measurement point: 1 meter from the service cover surface and 1.5 meters from floor level.

### Outdoor Unit Specifications



| Capacity                            |                                       |                     | 46HP                    | 48HP                | 50HP                |
|-------------------------------------|---------------------------------------|---------------------|-------------------------|---------------------|---------------------|
| Model                               |                                       |                     | AVWT-438CKFSH           | AVWT-456CKFSH       | AVWT-478CKFSH       |
| Combination                         |                                       |                     | AVWT-96CKFSE            | AVWT-114CKFSE       | AVWT-114CKFSE       |
|                                     |                                       |                     | AVWT-114CKFSE           | AVWT-114CKFSE       | AVWT-114CKFSE       |
|                                     |                                       |                     | AVWT-114CKFSE           | AVWT-114CKFSE       | AVWT-114CKFSE       |
|                                     |                                       |                     | AVWT-114CKFSE           | AVWT-114CKFSE       | AVWT-136CKFSE       |
| Power Supply                        |                                       |                     | AC 3φ, 380-415V/50/60Hz |                     |                     |
| Cooling Operation                   | Capacity                              | kW                  | 128.5                   | 134.0               | 140.5               |
|                                     |                                       | kBtu/h              | 438.4                   | 457.2               | 479.4               |
|                                     | Power Input                           | kW                  | 30.30                   | 31.68               | 33.94               |
|                                     | EER                                   | W/W                 | 4.24                    | 4.23                | 4.14                |
| Ventilation                         | Air Flow Rate                         | m <sup>3</sup> /min | 732                     | 732                 | 749                 |
|                                     | Fan Quantity                          | pcs                 | 4                       | 4                   | 5                   |
|                                     | Static Pressure                       | Pa                  | 110                     | 110                 | 110                 |
| Sound Pressure Level(Normal/Silent) |                                       |                     | dB(A)                   |                     |                     |
|                                     |                                       |                     | 67/50                   | 67/50               | 67/50               |
| Compressor                          | Type                                  | —                   | Scroll Compressor       |                     |                     |
|                                     | Quantity                              | pcs                 | 4                       | 4                   | 4                   |
| Refrigerant                         | Type                                  | —                   | R410A                   |                     |                     |
|                                     | Pre-charged Quantity                  | kg                  | 6.4+7.8+7.8+7.8         | 7.8+7.8+7.8+7.8     | 7.8+7.8+7.8+10.0    |
| Weight                              | Net Weight                            | kg                  | 213+218+218+218         | 218+218+218+218     | 218+218+218+260     |
|                                     | Gross Weight                          | kg                  | 241+246+246+246         | 246+246+246+246     | 246+246+246+291     |
| Cabinet Color                       |                                       |                     | Ivory White             |                     |                     |
| Net Dimensions                      | Height                                | mm                  | 1730                    | 1730                | 1730                |
|                                     | Width                                 | mm                  | 950+950+950+950         | 950+950+950+950     | 950+950+950+1210    |
|                                     | Depth                                 | mm                  | 750                     | 750                 | 750                 |
| Packing Dimensions                  | Height                                | mm                  | 1950                    | 1950                | 1950                |
|                                     | Width                                 | mm                  | 1015+1015+1015+1015     | 1015+1015+1015+1015 | 1015+1015+1015+1275 |
|                                     | Depth                                 | mm                  | 790                     | 790                 | 790                 |
| Ref. Piping                         | Gas                                   | mm                  | φ41.3                   | φ41.3               | φ41.3               |
|                                     |                                       | inch                | 1-5/8                   | 1-5/8               | 1-5/8               |
|                                     | Liquid                                | mm                  | φ22.2                   | φ22.2               | φ22.2               |
|                                     |                                       | inch                | 7/8                     | 7/8                 | 7/8                 |
| Connectable Indoor Units            | Quantity                              | pcs                 | 64                      | 64                  | 64                  |
|                                     | Connection Ratio                      | —                   | 50%~150%                |                     |                     |
| Piping Design                       | Max. Total Piping Length              |                     | m                       |                     |                     |
|                                     | Max. Piping Length                    | Actual Length       | m                       |                     |                     |
|                                     |                                       | Equivalent Length   | m                       |                     |                     |
|                                     | Height Difference Between ODU and IDU |                     | m                       |                     |                     |
|                                     | Height Difference Between IDUs        |                     | m                       |                     |                     |
| Cooling Operating Range             |                                       |                     | °CDB                    |                     |                     |

NOTES:

- The final appearance of outdoor units is subject to the actual products.
- When the operation temperature is under 48°C DB ~ 52°C DB, please contact with our professional engineer.
- \*1: If height difference between ODU&IDU more than 50(40)m, please contact with our professional engineer.
- \*2: If the height difference between indoor units is more than 15m, please contact with our professional engineer.

# Indoor Unit



- 4-Way Cassette Type
- Mini 4-Way Cassette Type
- 1-Way Cassette Type
- 2-Way Cassette Type
- Console Type
- Ceiling Ducted Type
- Wall Mounted Type
- Ceiling & Floor Type
- Floor Concealed Type
- All Fresh Air Indoor Unit
- Heat Recovery Ventilator
- AHU Connection Kit

COOLING ONLY

## Indoor Unit Range

| HP  |  | 0.6 | 0.8 | 1.0 | 1.3 | 1.5 | 1.6 | 1.8 | 1.9 | 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  | 15  | 17  | 18  | 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 (DC High Static Pressure) |  |     | ●   | ●   | ●   |     | ●   |     |     | ●   | ●   |     | ●   | ●   | ●   | ●   | ●   | ●   | ●    |
| 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 of each indoor unit.



## Indoor Unit Feature Overview

| Type   | Accessories           |                  |        |                 |             |               |           |                        |              |
|--|-----------------------|------------------|--------|-----------------|-------------|---------------|-----------|------------------------|--------------|
|  | Drain Pump (built-in) | 3D Airflow Panel | Filter | Humidity Sensor | AirPure Kit | Motion Sensor | Hi-Motion | Outlet Air Temp Sensor | Float Switch |
| 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(DC High Static Pressure) AVD-07~AVD-54   | ○                     | ×                | ●      | ○               | ○           | ×             | ○         | ●                      | ●            |
| Ceiling Ducted Type(DC High Static Pressure) AVD-76 & AVD-96 | ○                     | ×                | ○      | ○               | ○           | ×             | ○         | ●                      | ●            |
| Ceiling Ducted Type (High Static Pressure) AVD-07~AVD-54     | ○                     | ×                | ●      | ○               | ○           | ×             | ○         | ×                      | ●            |
| Ceiling Ducted Type (High Static Pressure) AVD-76 & AVD-96   | ×                     | ×                | ○      | ×               | ×           | ×             | ○         | ●                      | ●            |
| Ceiling Ducted Type (Low Static Pressure) AVD-07~AVD-54      | ○                     | ×                | ●      | ○               | ○           | ×             | ○         | ×                      | ●            |
| Ceiling Ducted Type (Low Static Pressure) AVD-76 & AVD-96    | ×                     | ×                | ○      | ×               | ×           | ×             | ○         | ●                      | ●            |
| Wall Mounted Type  | ×                     | ×                | ●      | ○               | ×           | ×             | ○         | ●                      | ×            |
| Ceiling & Floor Type   | ×                     | ×                | ●      | ×               | ×           | ×             | ○         | ●                      | ×            |
| Floor Concealed Type   | ×                     | ×                | ×      | ×               | ×           | ×             | ○         | ●                      | ×            |

Remarks: Standard: ● Optional: ○ Incompatible: ×

| Type  | Features          |                 |                    |                  |       |       |     |                           |             |               |                |
|---|-------------------|-----------------|--------------------|------------------|-------|-------|-----|---------------------------|-------------|---------------|----------------|
|   | Dry Contact Input | Windows Linkage | Dry Contact Output | Fresh Air Intake | Sleep | Quiet | ECO | Individual Louver Control | Breeze Mode | Self Cleaning | Auto Fan Speed |
| 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 (DC High Static Pressure) AVD-07~AVD-54   | ●                 | ●               | ●                  | ●                | ●     | ●     | ●   | ×                         | ×           | ●*            | ●              |
| Ceiling Ducted Type (DC High Static Pressure) AVD-76 & AVD-96 | ●                 | ●               | ●                  | ×                | ●     | ●     | ●   | ×                         | ×           | ×             | ●              |
| Ceiling Ducted Type (High Static Pressure) AVD-07~AVD-54      | ●                 | ●               | ●                  | ●                | ×     | ×     | ●   | ×                         | ×           | ×             | ×              |
| Ceiling Ducted Type (High Static Pressure) AVD-76 & AVD-96    | ●                 | ×               | ●                  | ×                | ●     | ×     | ●   | ×                         | ×           | ×             | ×              |
| Ceiling Ducted Type (Low Static Pressure) AVD-07~AVD-54       | ●                 | ●               | ●                  | ●                | ×     | ×     | ●   | ×                         | ×           | ×             | ×              |
| Ceiling Ducted Type (Low Static Pressure) AVD-76 & AVD-96     | ●                 | ×               | ●                  | ×                | ●     | ×     | ●   | ×                         | ×           | ×             | ×              |
| Wall Mounted Type   | ●                 | ●               | ●                  | ×                | ●     | ●     | ●   | ×                         | ×           | ●*            | ●              |
| Ceiling & Floor Type  | ●                 | ×               | ●                  | ×                | ×     | ×     | ×   | ×                         | ×           | ×             | ×              |
| Floor Concealed Type  | ●                 | ×               | ●                  | ×                | ●     | ●     | ●   | ×                         | ×           | ×             | ●              |

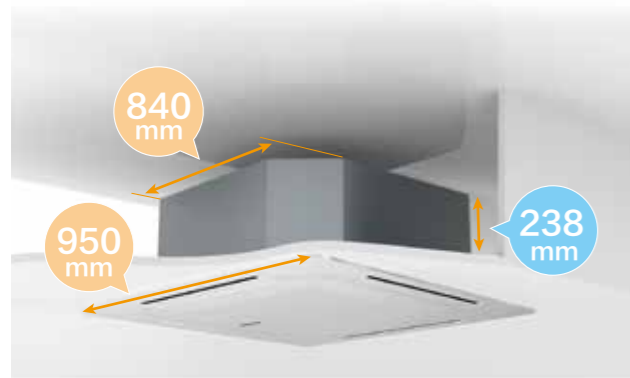
\* The self cleaning function is available only when connected with heat pump outdoor unit.

Remarks: Standard: ● Optional: ○ Incompatible: ×

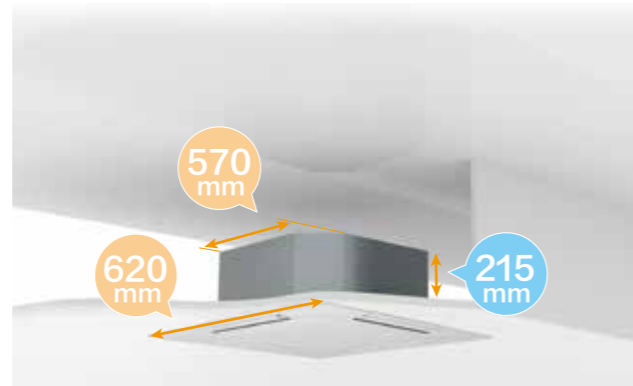
## 4-Way Cassette Type Mini 4-Way Cassette Type

### 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.



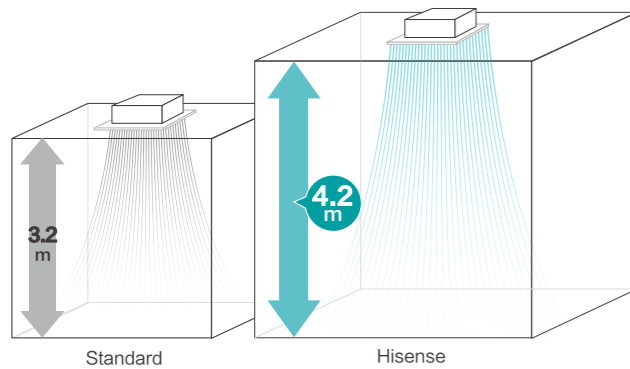
4-way Cassette Type



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.

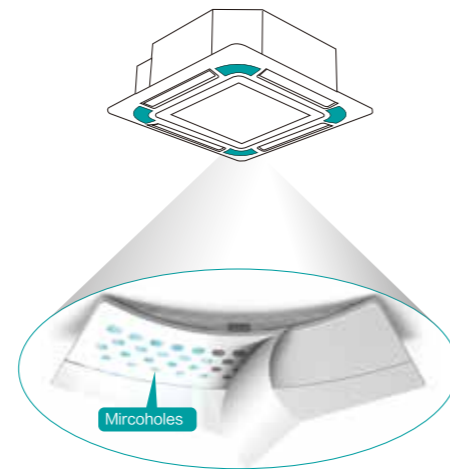


Standard

Hisense

### Breeze Mode

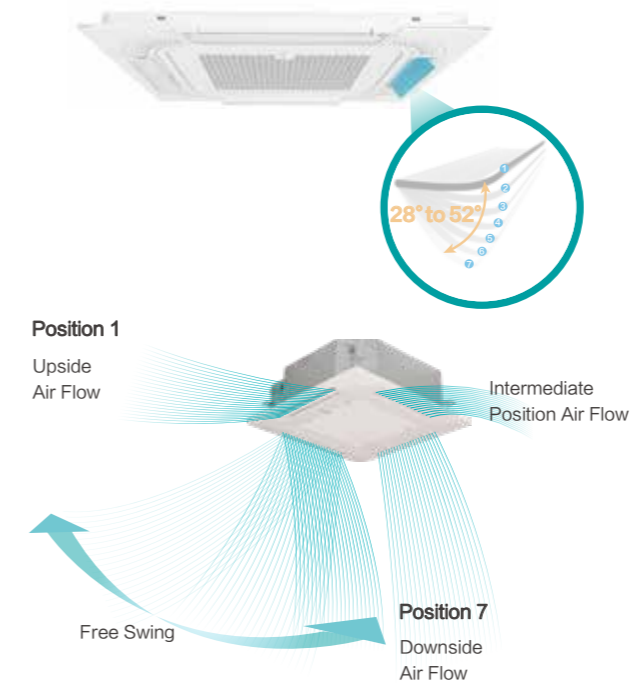
Under the new designed breeze mode, the cold air is blown out from the microholes in the panel, and the unit is working in a mute mode, which can avoid blowing air directly on people and achieve more even and comfortable airflow.



Microholes

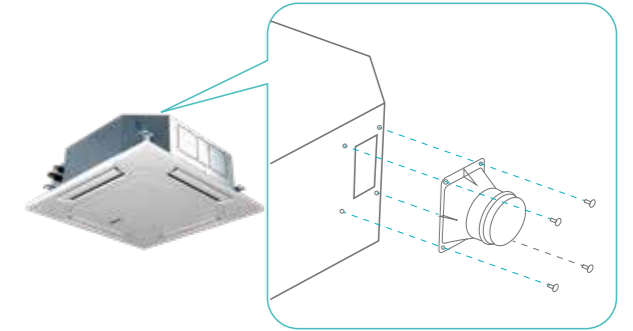
### Individual Louver Control

4-way cassette's 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 with angle range from 28° to 52°.



### Fresh Air Intake (Optional)

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

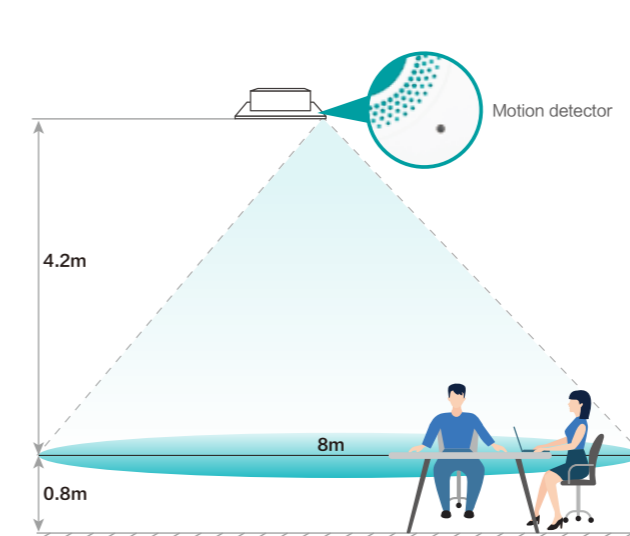


### Humidity Sensor(optional)

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

### 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 vice versa. Meeting comfort and using energy only when necessary.



Motion detector

Direct Blow

Avoid Direct Blow

Auto on

Auto off



### 4-Way Cassette Type



### Mini 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                                |
| Power Input      | Cooling              | W       | 14                                    | 24                                   | 24                                    | 34                                    | 54                                    | 64                                    | 54                                    | 54                                    | 124                                   | 124                                   | 124                                   |
| Sound Pressure   | dB(A)                |         | 30/28/28/<br>27/26/26                 | 32/29/29/<br>28/27/26                | 33/31/29/<br>29/27/26                 | 34/31/30/<br>28/28/26                 | 36/33/32/<br>31/29/28                 | 36/33/32/<br>31/29/28                 | 37/36/35/<br>33/31/30                 | 37/36/35/<br>33/31/30                 | 42/40/38/<br>36/34/33                 | 46/44/40/<br>38/36/34                 | 46/44/41/<br>40/38/36                 |
|                  |                      |         | 15.0/13.4/<br>12.0/10.8/<br>10.0/8.8  | 17.0/14.0/<br>12.8/11.8/<br>10.8/9.1 | 21.0/16.0/<br>14.9/13.6/<br>12.7/11.2 | 22.0/17.5/<br>15.9/15.5/<br>13.6/12.5 | 26.0/20.0/<br>18.3/17.0/<br>15.1/13.0 | 27.0/21.0/<br>19.1/18.0/<br>16.3/14.7 | 27.0/22.0/<br>20.3/18.7/<br>16.8/15.4 | 27.0/23.0/<br>20.7/19.6/<br>17.7/16.1 | 37.0/30.0/<br>27.4/24.8/<br>22.4/19.6 | 37.0/33.5/<br>29.6/27.2/<br>24.5/22.4 | 37.0/34.0/<br>30.7/28.9/<br>25.6/23.8 |
| Air Flow Rate    | m³/min               |         | 12.0/10.8/<br>10.0/8.8                | 12.8/11.8/<br>10.8/9.1               | 14.9/13.6/<br>12.7/11.2               | 15.9/15.5/<br>13.6/12.5               | 18.3/17.0/<br>15.1/13.0               | 19.1/18.0/<br>16.3/14.7               | 20.3/18.7/<br>16.8/15.4               | 20.7/19.6/<br>17.7/16.1               | 27.4/24.8/<br>22.4/19.6               | 29.6/27.2/<br>24.5/22.4               | 30.7/28.9/<br>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 is based on following conditions:  
Indoor Air Inlet Temperature:27°C DB(80°F DB), 19.0°C WB(66.2°F WB)  
Outdoor Air Inlet Temperature:35°C DB(95°F DB)  
Piping Length:7.5 Meters Piping Lift:0 Meter

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

| 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            |
| Power Input      | Cooling              | 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       |
| Air Flow 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 is based on following conditions:  
Indoor Air Inlet Temperature:27°C DB(80°F DB), 19.0°C WB(66.2°F WB)  
Outdoor Air Inlet Temperature:35°C DB(95°F DB)  
Piping Length:7.5 Meters Piping Lift:0 Meter

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

## 1-Way Cassette Type

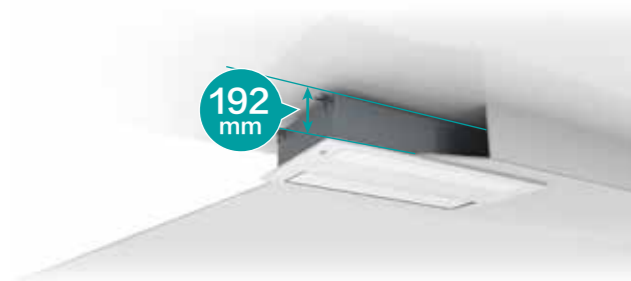
### Chic Aesthetics

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.



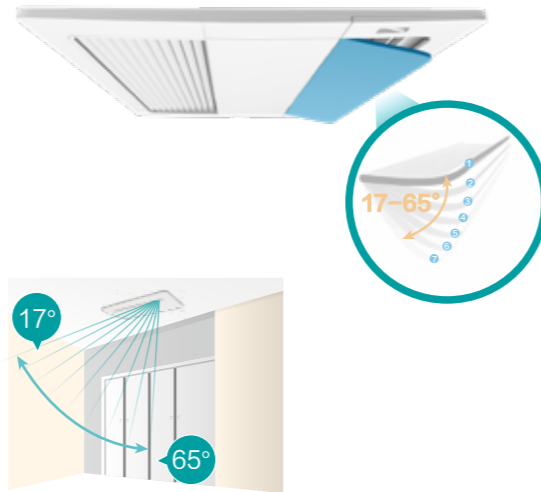
### Space Saving

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



### Wide Angle of Air Supply

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



### Easier Maintenance

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



## 1-Way Cassette Type



| 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            |
| Power Input      | Cooling              | W              | 14                                    | 14                | 24                | 34                | 34                | 74                |
|                  |                      | 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 |
| Air Flow Rate    | m³/min               |                | 6.2/5.9/5.6/                          | 6.6/6.2/5.6/      | 8.3/7.3/6.8/      | 8.3/7.3/6.8/      | 12.1/9.9/8.8/     | 15.6/12.6/11.2/   |
|                  |                      |                | 5.1/4.8/4.6                           | 5.1/4.8/4.6       | 6.2/5.6/5.1       | 6.2/5.6/5.1       | 8.2/7.8/6.6       | 9.9/8.4/7.1       |
| Piping           | Connection Type      |                | Flare-nut Connection(with Flare Nuts) |                   |                   |                   |                   |                   |
|                  | 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             | Φ12.7             | Φ15.88            |
|                  |                      | inch           | 1/2                                   | 1/2               | 1/2               | 1/2               | 1/2               | 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

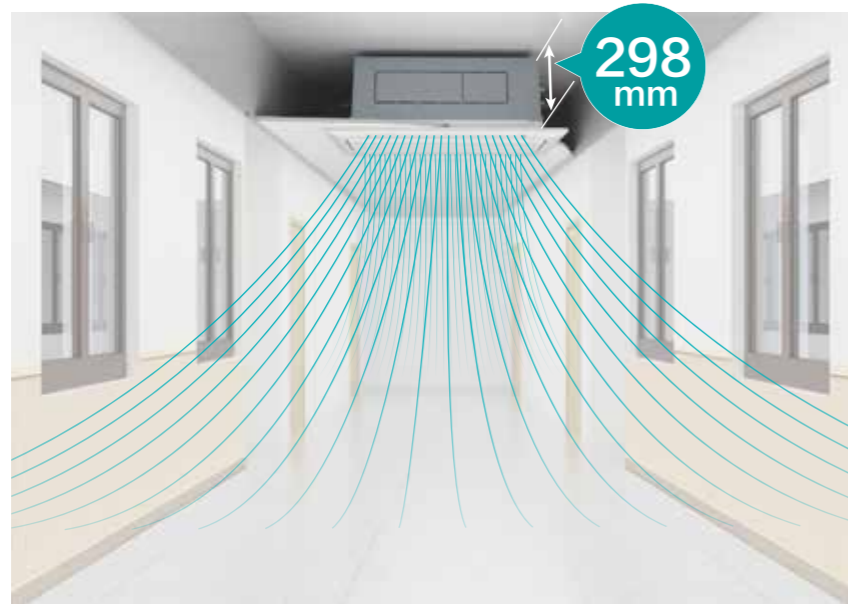
2. The sound pressure level is based on the following conditions:1.0m beneath the unit, 1.0m from Discharge Grille. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, the sound pressure will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



## 2-Way Cassette Type

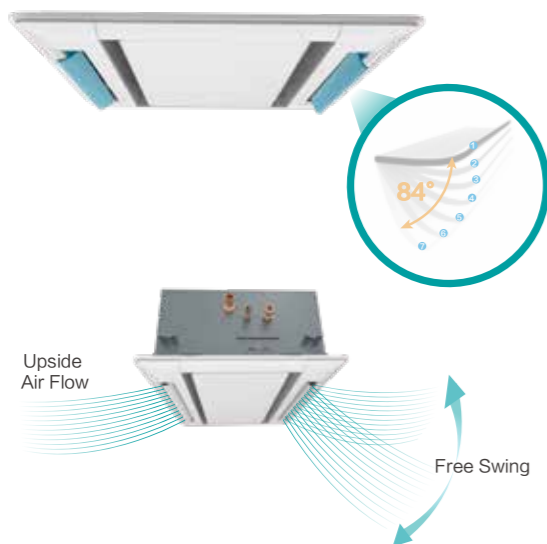
### Compact and Classy Design

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 thanks to its compact design.



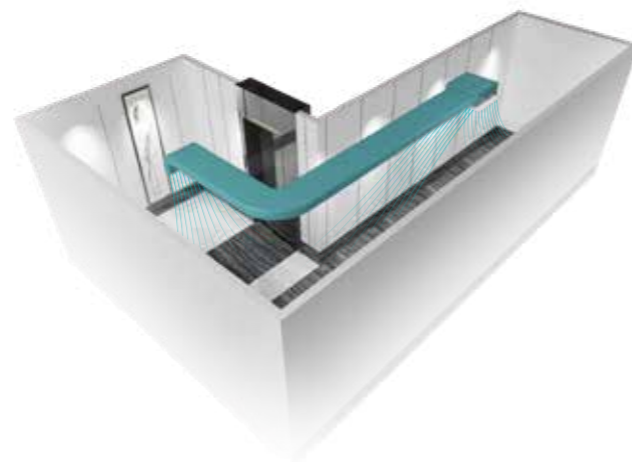
### Individual Louver Control

Each louver's opening angles are controllable individually with a total of 8 choices, with opening angle from 27° to 84° to cover high ceiling narrow long corridors needs.

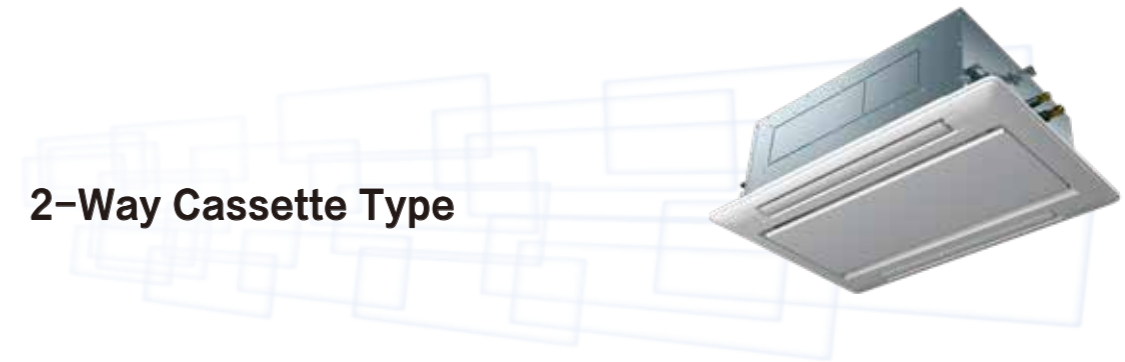


### Branch Discharge Option

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



## 2-Way Cassette Type



| Model            |                      | AVL-07<br>UXJSGA                      | AVL-09<br>UXJSGA     | AVL-12<br>UXJSGA     | AVL-14<br>UXJSGA      | AVL-18<br>UXJSGA       | AVL-24<br>UXJSGA        | AVL-27<br>UXJSGA        | AVL-30<br>UXJSGA        | AVL-38<br>UXJSHA        | AVL-48<br>UXJSHA        | AVL-54<br>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                  |
| Power Input      | Cooling              | W                                     | 14                   | 14                   | 14                    | 24                     | 34                      | 44                      | 64                      | 74                      | 84                      | 104                     | 114                     |
| Sound Pressure   | dB(A)                |                                       | 32/30/<br>29/27      | 33/30/<br>29/28      | 34/31/<br>30/28       | 40/37/<br>34/32        | 42/39/<br>36/33         | 45/42/<br>40/36         | 47/44/<br>40/36         | 49/46/<br>42/37         | 46/44/<br>40/38         | 48/45/<br>42/38         | 49/46/<br>43/40         |
|                  |                      |                                       |                      |                      |                       |                        |                         |                         |                         |                         |                         |                         |                         |
| Air Flow Rate    | m <sup>3</sup> /min  |                                       | 10.0/8.5/<br>7.2/6.0 | 11.0/9.4/<br>8.2/6.6 | 12.0/10.5/<br>8.9/7.5 | 15.0/13.2/<br>11.5/9.9 | 17.0/14.9/<br>13.0/11.2 | 19.0/16.4/<br>14.3/12.3 | 21.0/18.4/<br>15.6/12.6 | 22.0/19.3/<br>16.3/13.1 | 30.0/26.4/<br>23.1/19.8 | 35.0/30.8/<br>26.9/21.1 | 37.0/32.5/<br>28.4/24.1 |
|                  |                      |                                       |                      |                      |                       |                        |                         |                         |                         |                         |                         |                         |                         |
| Connection Type  |                      | Flare-nut Connection(with Flare Nuts) |                      |                      |                       |                        |                         |                         |                         |                         |                         |                         |                         |
| Piping           | Liquid               | mm                                    | φ6.35                | φ6.35                | φ6.35                 | φ6.35                  | φ6.35                   | φ9.53                   | φ9.53                   | φ9.53                   | φ9.53                   | φ9.53                   | φ9.53                   |
|                  |                      | inch                                  | 1/4                  | 1/4                  | 1/4                   | 1/4                    | 1/4                     | 3/8                     | 3/8                     | 3/8                     | 3/8                     | 3/8                     | 3/8                     |
|                  | Gas                  | mm                                    | φ12.7                | φ12.7                | φ12.7                 | φ12.7                  | 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                                    | 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                     |
| 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                 |                         |
| Panel Colour     |                      | -                                     | Neutral White        |                      |                       |                        |                         |                         |                         |                         |                         |                         |                         |
| Decoration Panel | 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:

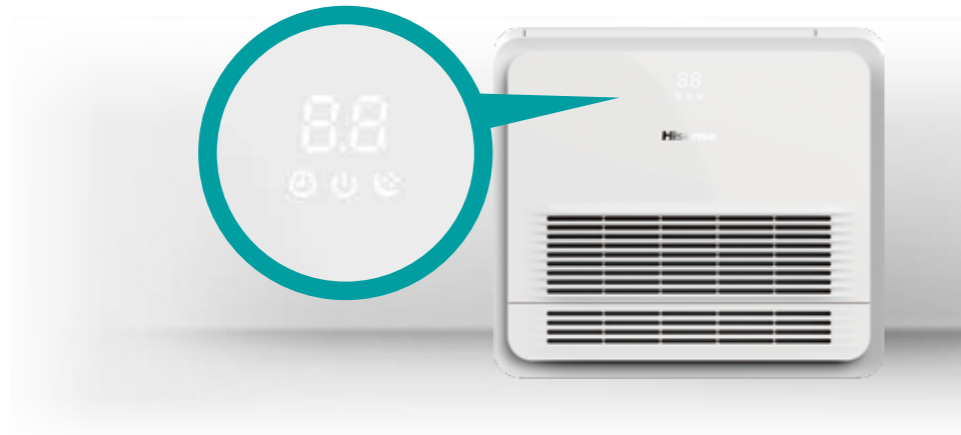
1. The nominal cooling capacity is based on the following conditions:  
 Indoor Air Inlet Temperature: 27°C DB (80°F DB), 19.0°C WB(66.2°F WB)  
 Outdoor Air Inlet Temperature: 35°C DB(95°F DB)  
 Piping Length: 7.5 Meters Piping Lift: 0 Meter

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-conditioning 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.

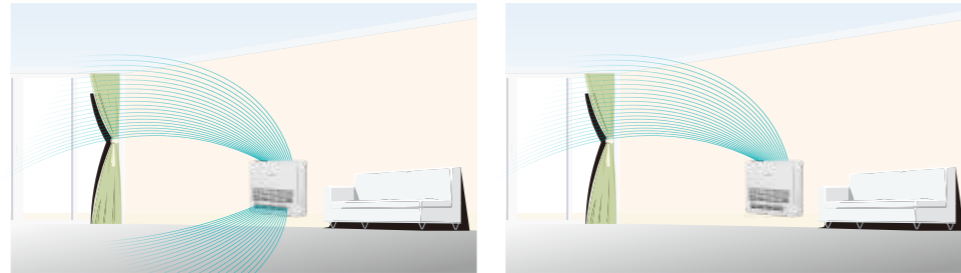


### Assorted Modes

#### Cooling Mode

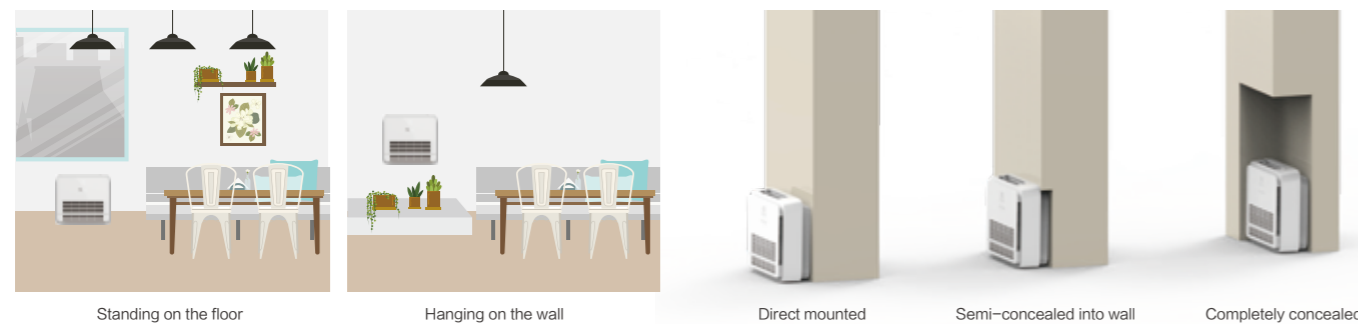
The unit adopts the stereo cooling mode that can reach the setting temperature rapidly.

NOTE:  
If indoor unit has been running in low fan speed mode for an hour, the air louver below will close automatically.



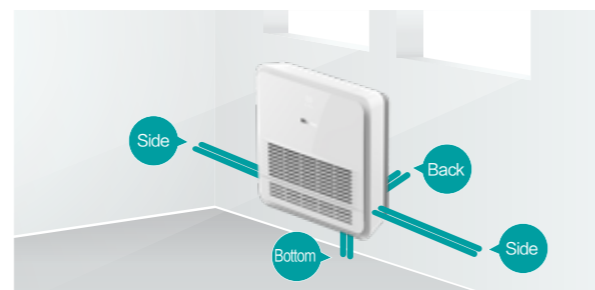
### Flexible Installation Options

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.



### 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

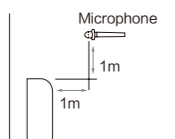


| Model            |                 |                     | AVK-05HJFCAA                          | AVK-07HJFCAA                | AVK-09HJFCAA                | AVK-12HJFCAA                | AVK-15HJFCAA                | AVK-17HJFCAA                 |
|------------------|-----------------|---------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| 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                       |
| Power Input      | Cooling         | 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            |
| Air Flow Rate    |                 | m <sup>3</sup> /min | 6.0/5.7/5.3/<br>5.1/4.7/4.5           | 7.4/7.0/6.4/<br>6.0/5.6/5.3 | 8.0/7.4/7.0/<br>6.4/6.0/5.6 | 8.2/7.6/6.8/<br>6.2/5.7/5.3 | 9.0/8.5/7.8/<br>7.2/6.6/6.4 | 10.1/9.7/9.0/<br>8.5/7.9/7.3 |
|                  |                 | Panel Colour        | -                                     | 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 is based on the following conditions:  
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)  
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)  
Piping Length: 7.5 Meters Piping Lift: 0 Meter

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

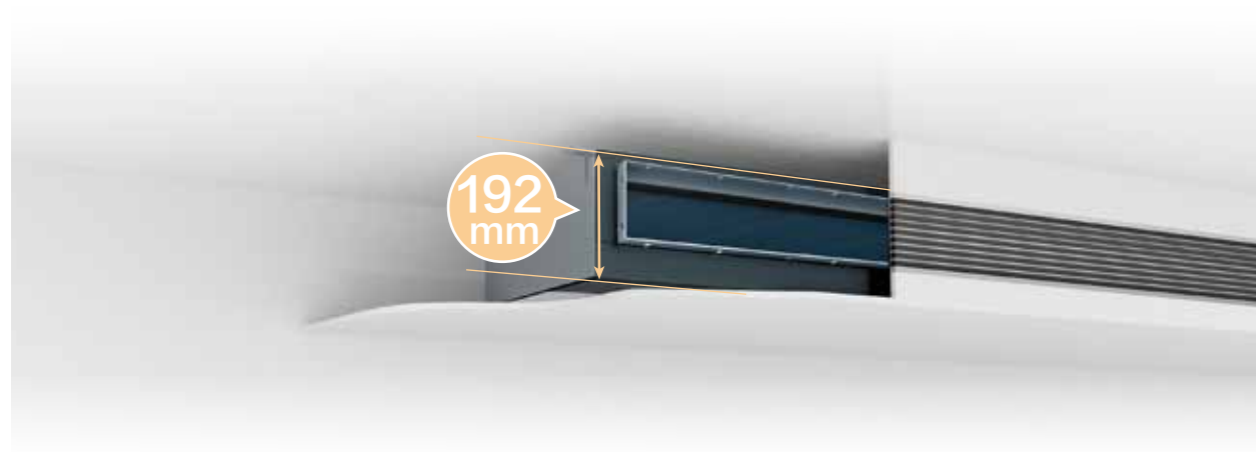




## Ceiling Ducted Type (AC/DC Low Height)

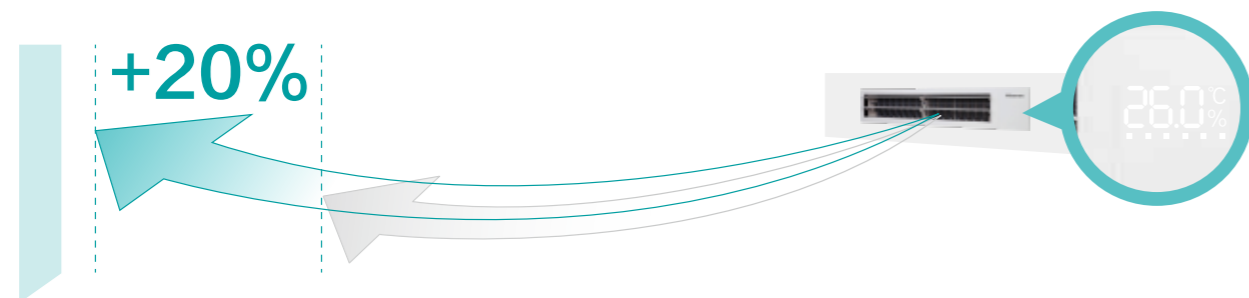
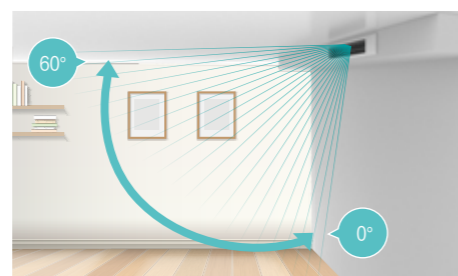
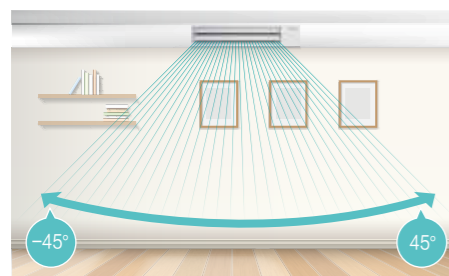
### Space Saving

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.



### 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.



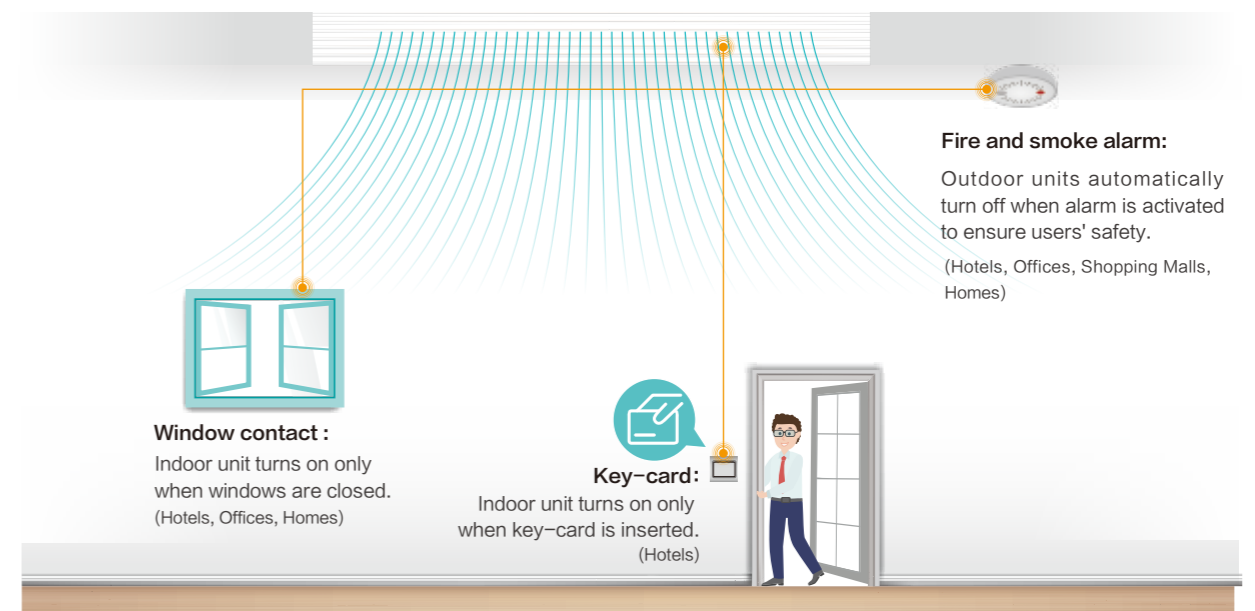
Hisense VRF



Conventional

### 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 1 Φ, 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       |
| Power Input              | Cooling         | 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     |
| Air Flow 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 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.

### 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 1 Φ, 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                         |
| Power Input              | Cooling         | W       | 30                                    | 30                          | 50                          | 50                          | 60                          | 60                          | 60                              | 90                             | 90                             |
| Sound Pressure           |                 | dB(A)   | 28/27/26/<br>24/23/21                 | 28/27/26/<br>24/23/21       | 35/32/32/<br>30/26/23       | 35/32/32/<br>30/26/23       | 35/32/32/<br>30/26/23       | 35/32/32/<br>30/26/23       | 35/32/30/<br>28/25/23           | 38/36/35/<br>33/31/24          | 38/36/35/<br>33/31/24          |
| Air Flow Rate            |                 | m³/min  | 7.0/6.5/6.1/<br>5.7/5.3/4.8           | 7.0/6.5/6.1/<br>5.7/5.3/4.8 | 9.0/8.1/7.3/<br>6.7/5.9/5.2 | 9.0/8.1/7.3/<br>6.7/5.9/5.2 | 12/10.8/9.4/<br>8.1/6.8/5.5 | 12/10.8/9.4/<br>8.1/6.8/5.5 | 13.5/12.5/11.2/<br>10.0/8.8/7.7 | 18/16.1/14.3/<br>12.3/10.5/8.7 | 18/16.1/14.3/<br>12.3/10.5/8.7 |
| External Static Pressure |                 | Pa      | 10(10/30/50)                          | 10(10/30/50)                | 10(10/30/50)                | 10(10/30/50)                | 10(10/30/50)                | 10(10/30/50)                | 10(10/30/50)                    | 10(10/30/50)                   | 10(10/30/50)                   |
| 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 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

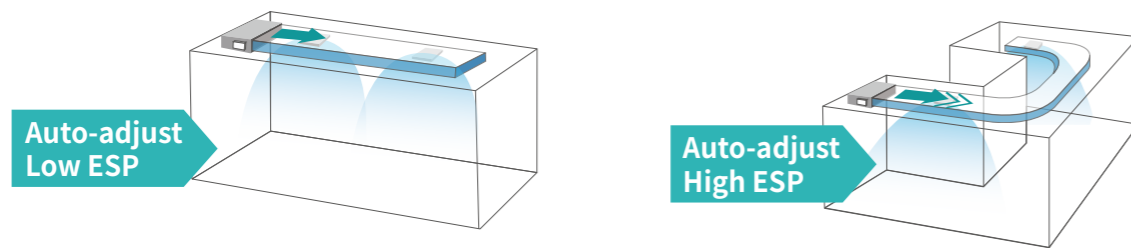
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.  
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.



## Ceiling Ducted Type(DC High Static Pressure)

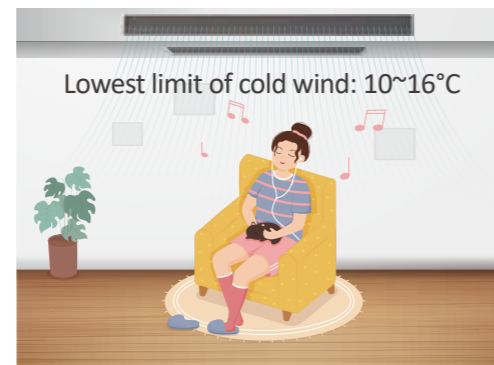
### Auto-adjust External Static Pressure

After installation, the actual duct resistance frequently differ from the initially calculated, causing the actual air flow too low or too high. The auto-adjust ESP function can effectively solve this problem. At the initial commission, the system can automatically select the most appropriate ESP value according to the actual duct resistance.



### Cold Wind Limit Setting

Thanks to the Cold Wind Limit Setting function, the lowest limit of the outlet air temperature can be set in the range of 10~16°C, which can ensure that the actual outlet temperature will never be lower than the set value, and avoid uncomfortable feeling caused by the direct blowing of cold wind.

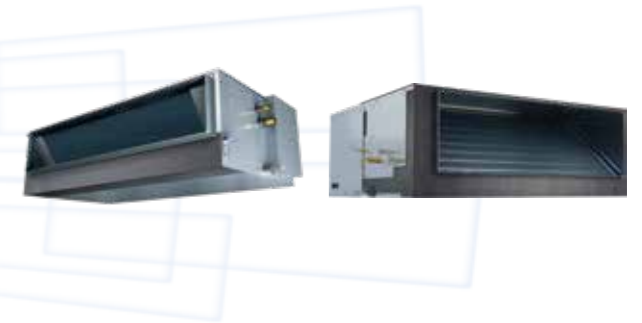


### New Improved Bendable Filters

Filters that comes with the units are now optimized to be bendable by improving the material's malleability to improve installation flexibility in narrow ceiling height and restricted spaces.



## Ceiling Ducted Type (DC High Static Pressure)



| Model                    |                 | AVD-07<br>HJFH             | AVD-09<br>HJFH                                      | AVD-12<br>HJFH          | AVD-15<br>HJFH        | AVD-19<br>HJFH        | AVD-24<br>HJFH                | AVD-24<br>HJFH1        | AVD-30<br>HJFH              | AVD-38<br>HJFH        | AVD-48<br>HJFH        | AVD-54<br>HJFH  | AVD-76<br>HJFH                | AVD-96<br>HJFH        |                                  |             |
|--------------------------|-----------------|----------------------------|---|-------------------------|-----------------------|-----------------------|-------------------------------|------------------------|-----------------------------|-----------------------|-----------------------|---|-------------------------------|-----------------------|----------------------------------|-------------|
| Power Supply             |                 | AC 1Φ, 220V~240V/50Hz/60Hz |   |                         |                       |                       |                               |                        |                             |                       |                       |   |                               |                       |                                  |             |
| Capacity                 | Cooling         | kW                         | 2.2   | 2.8                     | 3.6                   | 4.5                   | 5.6                           | 7.1                    | 7.1                         | 9.0                   | 11.2                  | 14.0  | 16.0                          | 22.4                  | 28.0                             |             |
|                          |                 | Btu/h                      | 7,500   | 9,600                   | 12,300                | 15,400                | 19,100                        | 24,200                 | 24,200                      | 30,800                | 38,000                | 48,000  | 54,500                        | 76,500                | 95,600                           |             |
| Power Input              | Cooling         | W                          | 40  | 40                      | 55                    | 55                    | 55                            | 82                     | 74                          | 100                   | 132                   | 180   | 223                           | 610                   | 830                              |             |
| Sound Pressure Level     |                 | dB(A)                      | 30/27/23/<br>21/20/19                               | 30/27/23/<br>21/20/19   | 35/33/32/<br>28/26/24 | 35/33/32/<br>28/26/24 | 33/30/27/<br>25/23/22         | 36/34/31/<br>28/24/22  | 33/31/28/<br>25/23/21       | 34/32/30/<br>28/25/22 | 37/35/31/<br>29/26/23 | 38/36/34/<br>31/29/26   | 41/38/35/<br>33/30/27         | 49/48/47/<br>46/45/44 | 53/52/50/<br>49/47/45            |             |
| Airflow Rate             |                 | m <sup>3</sup> /min        | 9/8/6.8/<br>6.3/5.8/5.3                             | 9/8/6.8/<br>6.3/5.8/5.3 | 12/11/10/<br>9/8/7.2  | 12/11/10/<br>9/8/7.2  | 14.5/13/11.5/<br>10.5/9.5/8.7 | 19/17/15/<br>13/11/9.5 | 20.6/19/17/<br>15/13.8/12.5 | 25/23/21/<br>19/17/15 | 28/25/23/<br>21/19/17 | 35.5/32.5/29.5/<br>26.5/23.5/20.5                                 | 39/35.5/31/<br>26.5/23.5/21.8 | 57/54/52/<br>51/49/48 | 72/68/65/<br>61/58/50            |             |
| External Static Pressure |                 | Pa                         | 30 ( 30/40/50/60/70/80/90/100/110/120/130/140/150 ) |                         |                       |                       |                               |                        |                             |                       |                       | 50 ( 50/60/70/80/90/100/110/120/130/140/150/160/170/180/190/200 ) |                               |                       | 150(50-250)                      | 150(50-250) |
| Piping                   | Connection Type | -                          | Flare-Nut Connection(With Flare Nut)                |                         |                       |                       |                               |                        |                             |                       |                       |   |                               | 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                              |             |
|                          | 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                | φ22.2<br>(φ19.05 <sup>*1</sup> ) | 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                   | 7/8 (3/4 <sup>*1</sup> )         | 7/8         |
| Condensate Drain         | -               | I.D. 32                    |   |                         |                       |                       |                               |                        |                             |                       |                       |   |                               |                       |                                  |             |
| Weight                   | Net Weight      | kg                         | 23  | 23                      | 24                    | 24                    | 30                            | 30                     | 40                          | 40                    | 40                    | 49  | 49                            | 104                   | 104                              |             |
|                          | Gross Weight    | kg                         | 29  | 29                      | 29                    | 29                    | 37                            | 37                     | 48                          | 48                    | 48                    | 57  | 57                            | 125                   | 125                              |             |
| Dimensions               | External        | H mm                       | 270   | 270                     | 270                   | 270                   | 270                           | 270                    | 300                         | 300                   | 300                   | 300   | 300                           | 470                   | 470                              |             |
|                          |                 | W mm                       | 650+75  | 650+75                  | 650+75                | 650+75                | 900+75                        | 900+75                 | 1100+75                     | 1100+75               | 1100+75               | 1100+75   | 1400+75                       | 1400+75               | 1250                             | 1250        |
|                          |                 | D mm                       | 720   | 720                     | 720                   | 720                   | 720                           | 720                    | 800                         | 800                   | 800                   | 800   | 800                           | 800                   | 1120                             | 1120        |
|                          | Packing         | H mm                       | 385   | 385                     | 385                   | 385                   | 385                           | 385                    | 415                         | 415                   | 415                   | 415   | 415                           | 546                   | 546                              |             |
|                          |                 | W mm                       | 895   | 895                     | 895                   | 895                   | 1140                          | 1140                   | 1345                        | 1345                  | 1345                  | 1345  | 1640                          | 1640                  | 1466                             | 1466        |
|                          |                 | D mm                       | 870   | 870                     | 870                   | 870                   | 870                           | 870                    | 950                         | 950                   | 950                   | 950   | 950                           | 950                   | 1345                             | 1345        |

Notes:

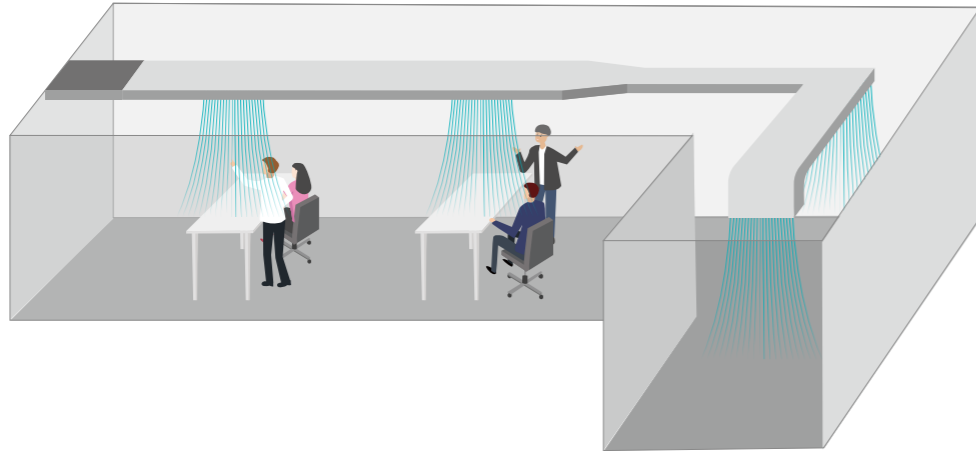
1. The nominal cooling capacity and heating capacity are based on the following conditions:  
 Cooling Operation Conditions  
 Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)  
 Outdoor Air Inlet Temperature: 35°C DB(95°F DB)  
 Heating Operation Conditions  
 Indoor Air Inlet Temperature: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

2. The sound pressure level is based on following conditions.  
 1.5m below the unit; With 2.0m discharge duct and 1.0m return duct  
 The above data were measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.  
 3. \*1: The size of AVD-76\* series gas pipe is φ22.2mm when leaving the factory, and the diameter can be changed to 19.05mm after welding the adapter pipe.

## Ceiling Ducted Type (High/Low Static Pressure)

### Flexible Air Duct Layout

High static pressure facilitates extensive ducts and air outlets network, effectively sends air-conditioned air to every corner of the room.



### New Improved Bendable Filters

Standard filters that comes with high/low static pressure ceiling ducted type are now optimized to be bendable by improving the material's malleability to improve installation flexibility in narrow ceiling height and restricted spaces.



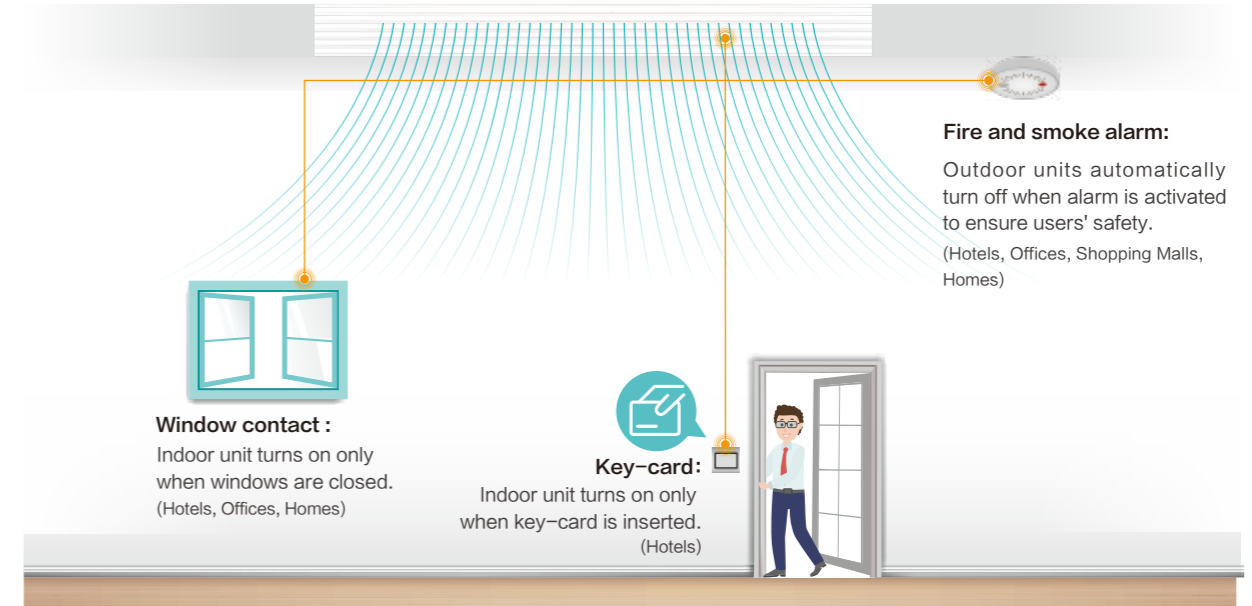
### Fresh Air Introducing

There is a fresh air duct opening reserved in the unit for 10% free fresh air introductory directly from outdoor, providing fresh air to the indoor continuously.



### Various Device Connection Options

Third party devices to control the on-off air conditioners is possible with dry contact connections to the Indoor unit. Devices like room key card, window contact and fire alarms can be connected simultaneously.

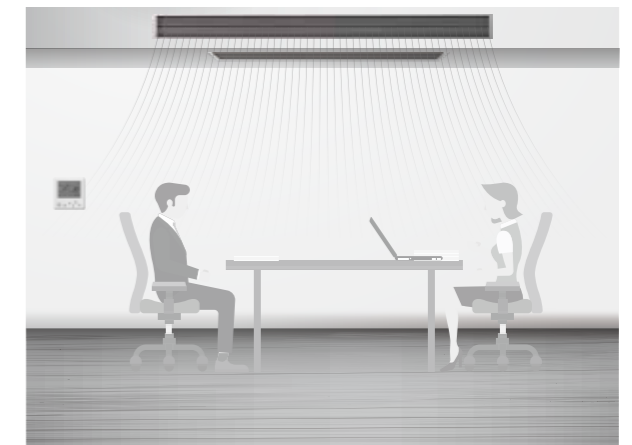


### Smart & Precise Temperature Control

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



### Ceiling Ducted Type (High Static Pressure)



| Model                    | AVD-07<br>HCFCH            | AVD-09<br>HCFCH | AVD-12<br>HCFCH                       | AVD-15<br>HCFCH | AVD-19<br>HCFCH | AVD-22<br>HCFCH | AVD-24<br>HCFCH | AVD-27<br>HCFCH | AVD-30<br>HCFCH | AVD-38<br>HCFCH | AVD-48<br>HCFCH | AVD-54<br>HCFCH | AVD-76U<br>X6SEH     | AVD-96U<br>X6SFH |         |       |       |
|--------------------------|----------------------------|-----------------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|------------------|---------|-------|-------|
| Power Supply             | AC 1 φ, 220V~240V/50Hz     |                 |                                       |                 |                 |                 |                 |                 |                 |                 |                 |                 | AC 3φ, 380-415V/50Hz |                  |         |       |       |
| Model                    | AVD-07<br>H3FCH            | AVD-09<br>H3FCH | AVD-12<br>H3FCH                       | AVD-15<br>H3FCH | AVD-19<br>H3FCH | AVD-22<br>H3FCH | AVD-24<br>H3FCH | AVD-27<br>H3FCH | AVD-30<br>H3FCH | AVD-38<br>H3FCH | AVD-48<br>H3FCH | AVD-54<br>H3FCH | —                    | —                |         |       |       |
| Power Supply             | AC 1 φ, 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 |       |
| Power Input              | Cooling                    | kW              | 0.10(0.13*)                           | 0.10(0.13*)     | 0.13(0.16*)     | 0.13(0.16*)     | 0.14(0.21*)     | 0.19(0.24*)     | 0.19(0.24*)     | 0.25(0.34*)     | 0.25(0.34*)     | 0.25(0.34*)     | 0.34(0.45*)          | 0.43(0.59*)      | 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)       |                            | m³/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<br>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           | φ6.35           | φ9.53           | 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   | 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(24*)                               | 25(24*)         | 25(24*)         | 25(24*)         | 30(31*)         | 30(31*)         | 30(31*)         | 45(44*)         | 45(44*)         | 45(44*)         | 53(50*)              | 53(50*)          | 94      | 106   |       |
|                          | Gross Weight               | kg              | 29(30*)                               | 29(30*)         | 31(30*)         | 31(30*)         | 36(38*)         | 37(38*)         | 37(38*)         | 52(52*)         | 52(52*)         | 52(52*)         | 61(59*)              | 61(59*)          | 112     | 123   |       |
| Dimensions               | External                   | H mm            | 270                                   | 270             | 270             | 270             | 270             | 270             | 300             | 300             | 300             | 300             | 300                  | 300              | 470     | 470   |       |
|                          |                            | 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  |       |
|                          |                            | D mm            | 720                                   | 720             | 720             | 720             | 720             | 720             | 720             | 800             | 800             | 800             | 800                  | 800              | 800     | 1120  | 1120  |
|                          | Packaging                  | H mm            | 385                                   | 385             | 385             | 385             | 385             | 385             | 385             | 415             | 415             | 415             | 415                  | 415              | 415     | 546   | 546   |
|                          |                            | W mm            | 895                                   | 895             | 895             | 895             | 1140            | 1140            | 1140            | 1345            | 1345            | 1345            | 1640                 | 1640             | 1276    | 1466  | —     |
|                          |                            | D mm            | 870                                   | 870             | 870             | 870             | 870             | 870             | 870             | 950             | 950             | 950             | 950                  | 950              | 950     | 1345  | 1345  |

Notes:

- The nominal cooling capacity and heating capacity are based on the following conditions:  
Cooling Operation Conditions  
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)  
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)  
Piping Length: 7.5 Meters Piping Lift: 0 Meter  
Heating Operation Conditions  
Indoor Air Inlet Temperature: 20°C DB(68°F DB)  
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)
- The sound pressure level is based on the following conditions: 1.5m beneath the unit.  
With discharge duct (2.0m) and return duct(1.0m)  
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.
- When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.  
\*: The value noted \* is the parameter of the indoor units with power supply 208~230V/60Hz.

### Ceiling Ducted Type (Low Static Pressure)



| Model                    | AVD-07<br>HCFCL        | AVD-09<br>HCFCL | AVD-12<br>HCFCL                       | AVD-15<br>HCFCL | AVD-19<br>HCFCL | AVD-22<br>HCFCL | AVD-24<br>HCFCL | AVD-27<br>HCFCL | AVD-30<br>HCFCL | AVD-38<br>HCFCL | AVD-48<br>HCFCL | AVD-54<br>HCFCL | AVD-76U<br>X6SEL     | AVD-96U<br>X6SFL |         |        |      |
|--------------------------|------------------------|-----------------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|------------------|---------|--------|------|
| Power Supply             | AC 1 φ, 220V~240V/50Hz |                 |                                       |                 |                 |                 |                 |                 |                 |                 |                 |                 | AC 3φ, 380-415V/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 |      |
| Power Input              | Cooling                | 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) |                        | m³/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    |      |
|                          |                        | 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   |      |
|                          |                        | D mm            | 720                                   | 720             | 720             | 720             | 720             | 720             | 720             | 800             | 800             | 800             | 800                  | 800              | 800     | 1120   | 1120 |
|                          | Packaging              | H mm            | 385                                   | 385             | 385             | 385             | 385             | 385             | 385             | 415             | 415             | 415             | 415                  | 415              | 415     | 546    | 546  |
|                          |                        | W mm            | 895                                   | 895             | 895             | 895             | 1140            | 1140            | 1140            | 1345            | 1345            | 1345            | 1640                 | 1640             | 1276    | 1466   | —    |
|                          |                        | D mm            | 870                                   | 870             | 870             | 870             | 870             | 870             | 870             | 950             | 950             | 950             | 950                  | 950              | 950     | 1345   | 1345 |

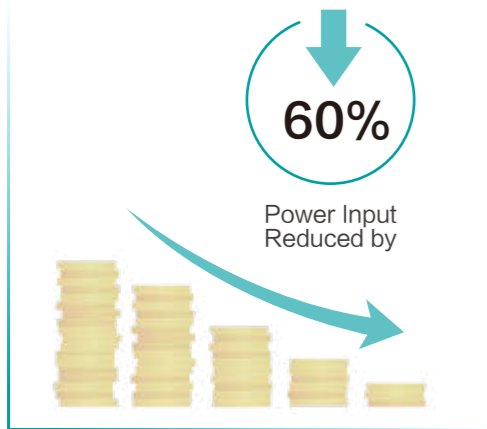
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Indoor Air Inlet Temperature: 20°C DB(68°F DB)  
Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)
- The sound pressure level is based on the following conditions: 1.5m beneath the unit.  
With discharge duct (2.0m) and return duct(1.0m)  
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.
- When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

## Wall Mounted Type

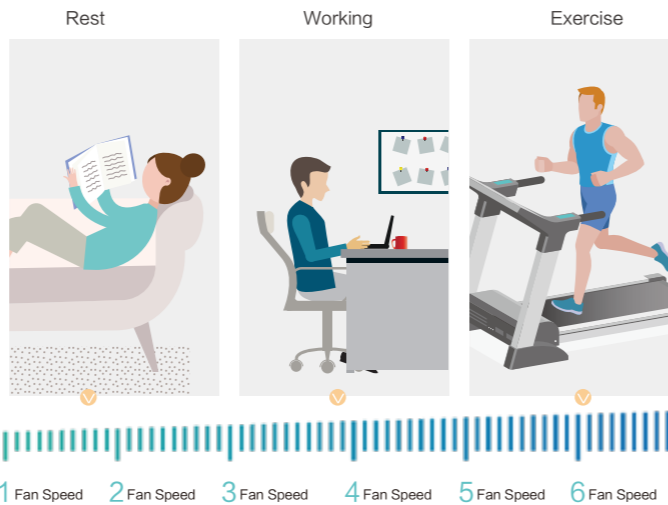
### High-efficiency DC Fan Motor

The power consumption of the unit with DC fan motor can be reduced greatly in comparison to the old AC product. The minimum power consumption is only 20W, which is reduced by 60%. It can achieve low-cost operation.



### 6 Fan Speed

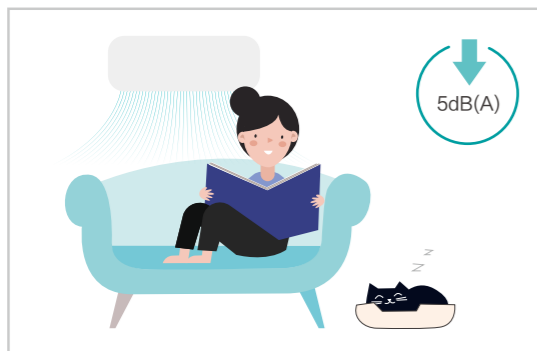
6 indoor fan speeds are available to meet the needs of different indoor conditions.



### Optimal Noise Control

The low-noise DC fan motor and the enhanced vibration pad on the distribution pipe and EEV will ensure a quieter operation. Besides, with Hisense special smart noise reduction technology, the operation noise can also be decreased effectively. During the high airflow operation, maximum 5dB(A)\* is decreased compare with the previous generation. What's more, sleep mode and quiet mode are also available for users to further enjoy a quiet environment.

\*Take AVS-12\* as an example



### Auto Dehumidification

To keep up with the indoor air quality requirements, the wall mounted unit can offer auto dehumidification function\*, and the setting range of relative humidity is from 35% to 90%.

\*To achieve this function, an optional accessory of humidity sensor need to be equipped.



## Wall Mounted Type



| Model          |                     | AVS-05<br>HJFTDD                       | AVS-07<br>HJFTDD            | AVS-09<br>HJFTDD            | AVS-12<br>HJFTDD             | AVS-15<br>HJFTDD               | AVS-18<br>HJFTDD                  | AVS-24<br>HJFTDD                  | AVS-28<br>HJFTDD                  |        |
|----------------|---------------------|--|-----------------------------|-----------------------------|------------------------------|--------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------|
| Power Supply   |                     | AC 1Φ, 220~240V/50Hz; AC 1Φ, 220V/60Hz |                             |                             |                              |                                |                                   |                                   |                                   |        |
| Capacity       | Cooling             | kW                                     | 1.7                         | 2.2                         | 2.8                          | 3.6                            | 4.5                               | 5.6                               | 7.1                               | 8.4    |
|                |                     | Btu/h                                  | 5,800                       | 7,500                       | 9,600                        | 12,300                         | 15,400                            | 19,100                            | 24,200                            | 28,700 |
|                | Heating             | kW                                     | 2.0                         | 2.5                         | 3.3                          | 4.0                            | 5.0                               | 6.3                               | 8.0                               | 8.4    |
|                |                     | Btu/h                                  | 6,500                       | 8,500                       | 11,300                       | 13,700                         | 17,100                            | 21,500                            | 27,300                            | 28,700 |
| Power Input    | Cooling             | W                                      | 20                          | 20                          | 20                           | 30                             | 20                                | 30                                | 50                                | 80     |
|                | Heating             | W                                      | 20                          | 20                          | 20                           | 30                             | 30                                | 30                                | 70                                | 80     |
| Sound Pressure | dB(A)               | 33/32/32/<br>30/30/28                  | 36/35/33/<br>32/30/28       | 36/35/33/<br>32/30/28       | 38/35/33/<br>32/30/28        | 38/37/36/<br>32/31/29          | 40/38/36/<br>35/33/31             | 45/42/41/<br>38/35/31             | 50/48/45/<br>41/36/33             |        |
| Airflow Rate   | m <sup>3</sup> /min | 8.7/8.3/8.2/<br>7.5/7.2/7.0            | 9.8/9.2/8.7/<br>8.2/7.5/7.0 | 9.8/9.2/8.7/<br>8.2/7.5/7.0 | 10.3/9.2/8.7/<br>8.2/7.5/7.0 | 11.5/11.0/10.3/<br>9.0/8.7/8.0 | 16.2/15.0/14.2/<br>13.3/12.2/11.5 | 20.0/18.0/17.0/<br>15.0/13.3/11.7 | 23.3/22.0/20.0/<br>17.0/14.2/12.2 |        |
| Panel Colour   |                     | White                                  |                             |                             |                              |                                |                                   |                                   |                                   |        |
| Piping         | Connection Type     | Flare Nuts                             |                             |                             |                              |                                |                                   |                                   |                                   |        |
|                | Liquid              | mm                                     | Φ6.35                       | Φ6.35                       | Φ6.35                        | Φ6.35                          | Φ6.35                             | Φ9.53                             | Φ9.53                             | Φ9.53  |
|                |                     | inch                                   | 1/4                         | 1/4                         | 1/4                          | 1/4                            | 1/4                               | 3/8                               | 3/8                               | 3/8    |
|                | Gas                 | mm                                     | Φ9.53                       | Φ9.53                       | Φ9.53                        | Φ9.53                          | Φ12.7                             | Φ15.88                            | Φ15.88                            | Φ15.88 |
| inch           |                     | 3/8                                    | 3/8                         | 3/8                         | 3/8                          | 1/2                            | 5/8                               | 5/8                               | 5/8                               |        |
| Drain Pipe     | mm                  | O.D. 18                                |                             |                             |                              |                                |                                   |                                   |                                   |        |
| Weight         | Net Weight          | kg                                     | 9                           | 9                           | 9                            | 9                              | 13                                | 14.5                              | 14.5                              | 14.5   |
|                | Gross Weight        | kg                                     | 12.5                        | 12.5                        | 12.5                         | 12.5                           | 17                                | 19                                | 19                                | 19     |
| Dimensions     | External            | H mm                                   | 270                         | 270                         | 270                          | 270                            | 315                               | 315                               | 315                               | 315    |
|                |                     | W mm                                   | 845                         | 845                         | 845                          | 845                            | 960                               | 1120                              | 1120                              | 1120   |
|                |                     | D mm                                   | 203                         | 203                         | 203                          | 203                            | 230                               | 230                               | 230                               | 230    |
|                | Packaging           | H mm                                   | 375                         | 375                         | 375                          | 375                            | 430                               | 430                               | 430                               | 430    |
|                |                     | W mm                                   | 943                         | 943                         | 943                          | 943                            | 1058                              | 1223                              | 1223                              | 1223   |
|                |                     | D mm                                   | 310                         | 310                         | 310                          | 310                            | 328                               | 328                               | 328                               | 328    |

Notes:

1. The rated capacity is based on 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 an anechoic chamber so that reflected sound should be taken into consideration during actual operation.  
The above noise values are measured under the fan mode operation, and measured at a point 1m in front of the unit and 0.8m below the unit.



## Ceiling & Floor Type

### Sleek Smooth Design

Shiny white cover panel of the unit has a 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.

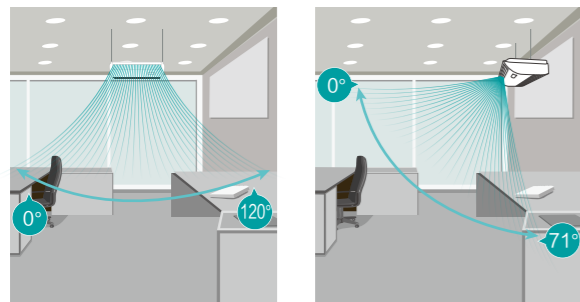


Hanging on the wall

Standing on the floor

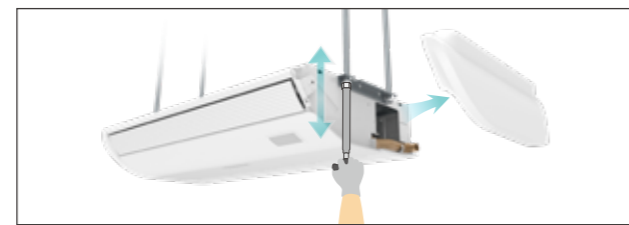
### Wide Air Supply

Louvers consist of horizontal and vertical flaps to cover a 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.



## Ceiling & Floor Type



| Model                |                 |                | AVV-17URSCA                           | AVV-18URSCA   | AVV-22URSCA    | AVV-24URSCA    | AVV-27URSCB    | AVV-30URSCB    | AVV-38URSCB    | AVV-48URSCC    |
|----------------------|-----------------|----------------|---------------------------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Power Supply         |                 |                | AC 1Φ, 220V~240V/50Hz/60Hz            |               |                |                |                |                |                |                |
| Capacity             | Cooling         | kW             | 5.0                                   | 5.6           | 6.3            | 7.1            | 8.4            | 9.0            | 11.2           | 14.2           |
|                      |                 | Btu/h          | 17,100                                | 19,100        | 21,500         | 24,200         | 28,700         | 30,700         | 38,200         | 48,500         |
| Power Input          | Cooling         | W              | 40                                    | 40            | 70             | 70             | 70             | 80             | 130            | 160            |
|                      |                 | Sound Pressure |                                       |               |                |                |                |                |                |                |
| 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       |
| Air Flow 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   |
| 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 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, sound pressure will increase according to factors such as installation mode and the room structure.

## Floor Concealed Type

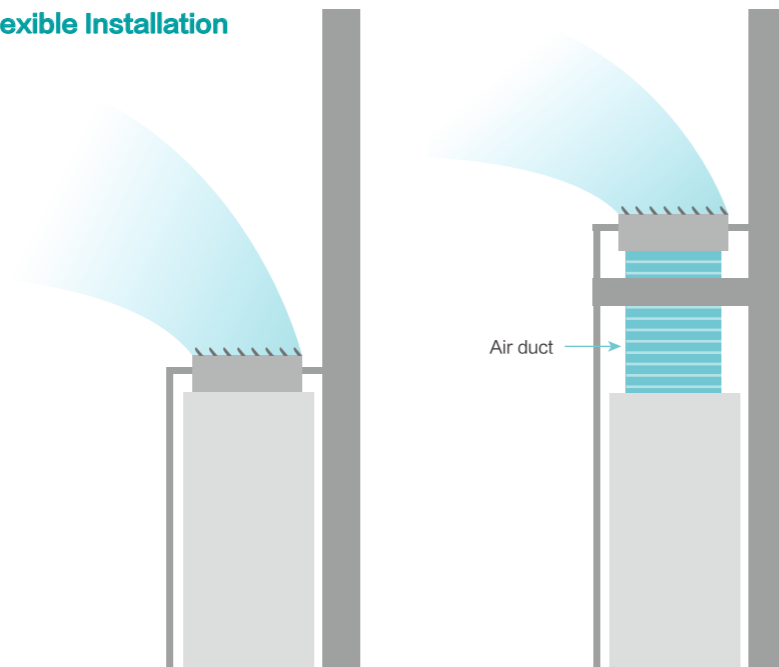
### Space Saving

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.

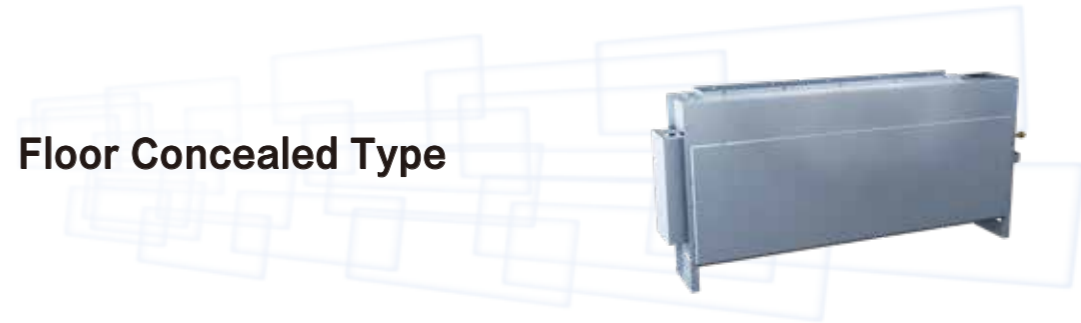


### Adjustable Static Pressure and Flexible Installation

With 2-level external static pressure adjustable, project design and installation are more flexible. Users can choose the air duct to increase the air supply distance in order to achieve the completely concealed installation.



## Floor Concealed Type



| Model            |                 |                     | AVH-09UXCSAA                          | AVH-14UXCSAA | AVH-18UXCSBA   | AVH-24UXCSBA   |
|------------------|-----------------|---------------------|---------------------------------------|--------------|----------------|----------------|
| Power Supply     |                 |                     | AC 1 $\phi$ , 220V-240V/50Hz          |              |                |                |
| Model            |                 |                     | AVH-09UX2SAA                          | AVH-14UX2SAA | AVH-18UX2SBA   | AVH-24UX2SBA   |
| Power Supply     |                 |                     | AC 1 $\phi$ , 220V/60Hz               |              |                |                |
| Capacity         | Cooling         | kW                  | 2.8                                   | 4.3          | 5.6            | 7.1            |
|                  |                 | Btu/h               | 9,600                                 | 14,700       | 19,100         | 24,200         |
| Power Input      | Cooling         | W                   | 50                                    | 80           | 90             | 120            |
| Sound Pressure   |                 | dB(A)               | 34/31/27                              | 40/36/34     | 41/36/32       | 44/40/36       |
| Air Flow Rate    |                 | m <sup>3</sup> /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                  | $\phi$ 6.35                           | $\phi$ 6.35  | $\phi$ 6.35    | $\phi$ 9.53    |
|                  |                 | inch                | 1/4                                   | 1/4          | 1/4            | 3/8            |
|                  | Gas             | mm                  | $\phi$ 12.7                           | $\phi$ 12.7  | $\phi$ 15.88   | $\phi$ 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:

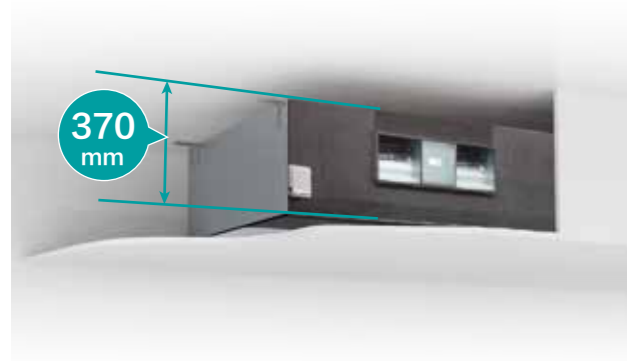
1. The nominal cooling capacity is based on the following conditions:  
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)  
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)  
Piping Length: 7.5 Meters Piping Lift: 0 Meter

2. The sound pressure level is based on the following conditions:  
1.5m 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

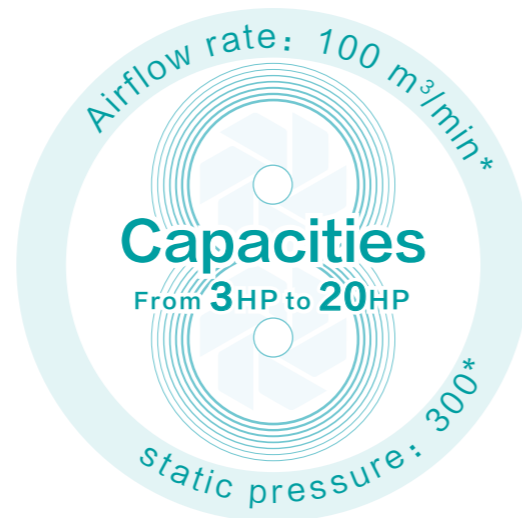
### Space Saving

Fresh air unit consisting 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.



## All Fresh Air Indoor Unit



| Model                          | AVA-30UX<br>CSCH-70   | AVA-48UX<br>CSQH-108 | AVA-76UX<br>CSRH-168                  | AVA-96UX<br>CSRH-210 | AVA-114UX<br>6SRH-300 | AVA-154UX<br>6SSH-400 | AVA-190UX<br>6STH-500 | AVA-190UX<br>6STH-600 |             |             |
|--------------------------------|-----------------------|----------------------|---------------------------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------|-------------|
| Power Supply                   | AC 1ϕ, 220V-240V/50Hz |                      |                                       |                      | AC 3ϕ, 380V-415V/50Hz |                       |                       |                       |             |             |
| Model                          | AVA-30UX<br>2SCH-70   | AVA-48UX<br>2SQH-108 | AVA-76UX<br>2SRH-168                  | AVA-96UX<br>2SRH-210 | AVA-114UX<br>7SRH-300 | AVA-154UX<br>7SSH-400 | AVA-190UX<br>7STH-500 | AVA-190UX<br>7STH-600 |             |             |
| Power Supply                   | AC 1ϕ, 220V/60Hz      |                      |                                       |                      | AC 3ϕ, 380V/60Hz      |                       |                       |                       |             |             |
| Capacity                       | Cooling               | kW                   | 9.0                                   | 14.0                 | 22.4                  | 28.0                  | 33.5                  | 45.0                  | 56.0        | 56.0        |
|                                |                       | Btu/h                | 30,700                                | 47,800               | 76,500                | 95,600                | 114,300               | 153,600               | 191,100     | 191,100     |
| Power Input                    | Cooling               | W                    | 150(140*)                             | 330(310*)            | 490(610*)             | 510(710*)             | 740(700*)             | 1120(1070*)           | 1330(1270*) | 1620(1540*) |
| Sound Pressure                 |                       | dB(A)                | 32                                    | 43                   | 45                    | 46                    | 56                    | 61                    | 64          | 66          |
| Air Flow Rate                  |                       | m <sup>3</sup> /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                         | Connection Type       | -                    | Flare-nut Connection(with Flare Nuts) |                      |                       | Brazing               |                       |                       |             |             |
|                                | 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         |
|                                |                       | Wmm                  | 920                                   | 1320                 | 1270                  | 1270                  | 1270                  | 1950                  | 1950        | 1950        |
|                                |                       | D mm                 | 800                                   | 800                  | 1069                  | 1069                  | 1069                  | 805                   | 805         | 805         |
|                                | Packaging             | H mm                 | 390                                   | 390                  | 540                   | 540                   | 540                   | 816                   | 916         | 916         |
|                                |                       | Wmm                  | 1112                                  | 1512                 | 1466                  | 1466                  | 1466                  | 2213                  | 2213        | 2213        |
|                                |                       | D mm                 | 922                                   | 922                  | 1290                  | 1290                  | 1290                  | 1006                  | 1006        | 1006        |
| Temperature Range of Fresh Air |                       | -                    | Cooling: 20°C-43°C                    |                      |                       |                       |                       |                       |             |             |

NOTES:

- The nominal cooling capacity is based on following conditions  
Cooling operation conditions: 33°C DB, 28°C WB, piping length: 7.5m, piping lift: 0m
- 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.
- An air filter with duct collection efficiency more than 50% needs to be attached to the duct system of the suction side at site.
- Under cooling mode,when outdoor temperature is lower than 20° C,the system will automatically shift to ventilation operation.

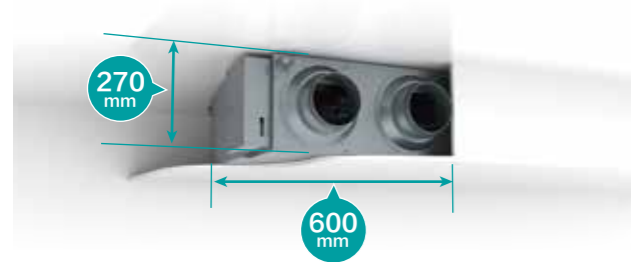
\*1: the parameter of indoor units with power supply of 60Hz



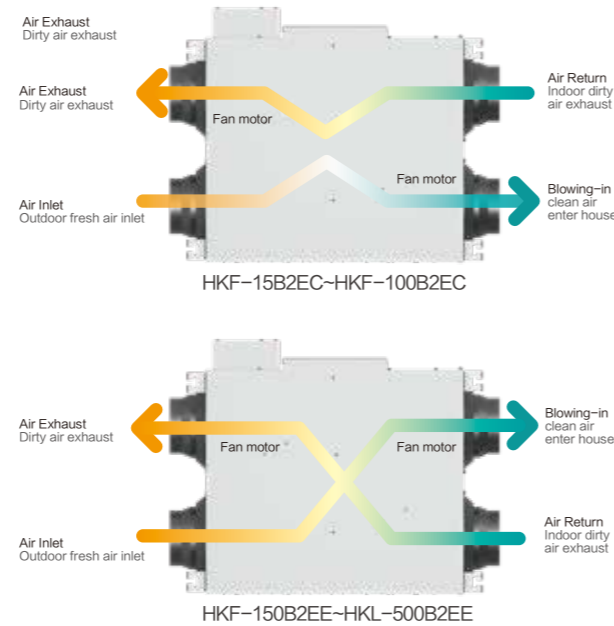
# Heat Recovery Ventilator

## 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 m<sup>3</sup>/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.

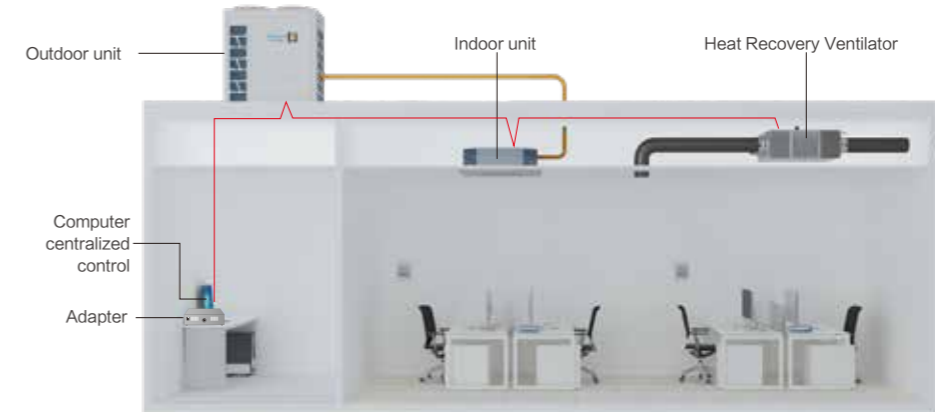


## Airflow System



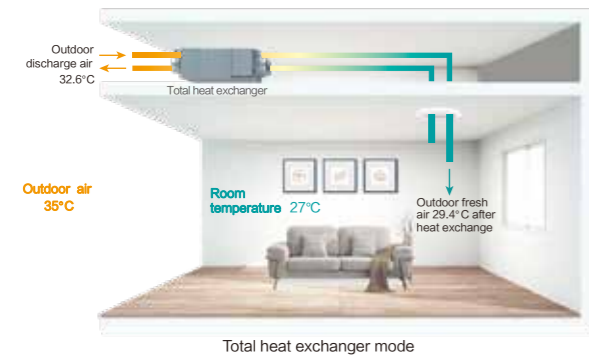
## Centralized Control System

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!



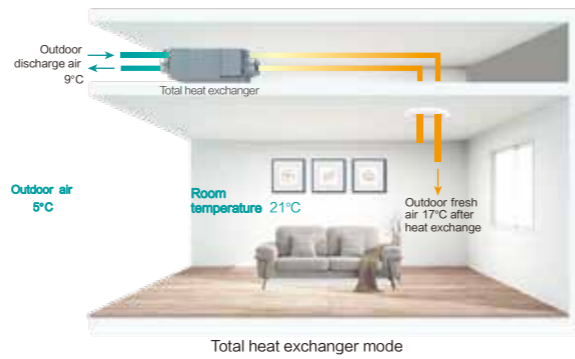
## Energy Saving Analysis

### Summer Energy Saving Analysis



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.

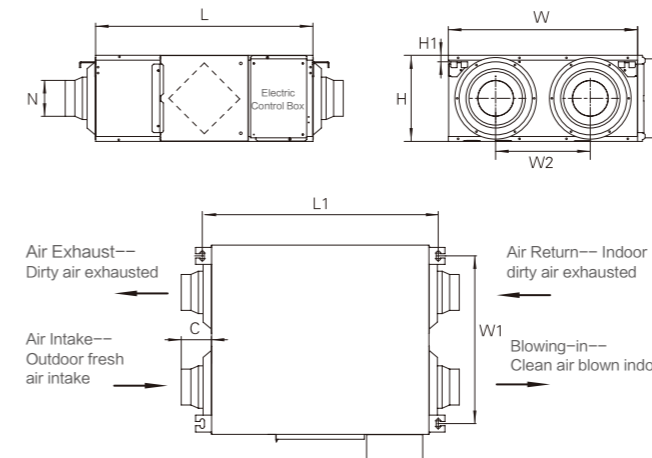
### Winter Energy Saving Analysis



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 |

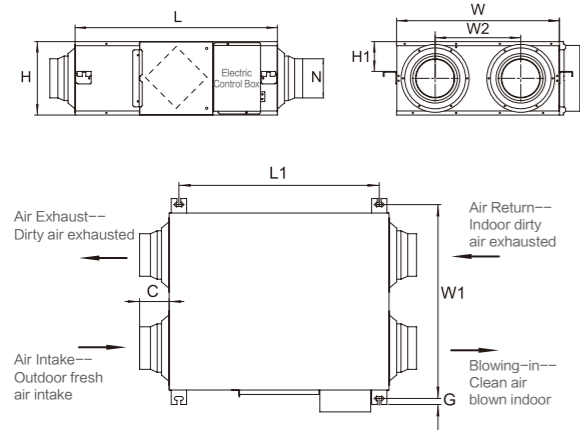
### Technical Parameters

| Model       | Air Volume m <sup>3</sup> /h |        |     | Enthalpy Efficiency (Summer) η <sub>i</sub> |        |     | Enthalpy Efficiency (Winter) η <sub>i</sub> |        |     | 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     |                   |    |    |           |
| 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 |

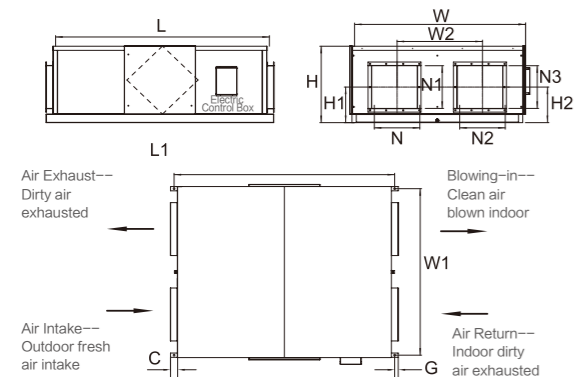
### Technical Parameters

| Model        | Air Volume m <sup>3</sup> /h |        |     | Enthalpy Efficiency (Summer) η <sub>i</sub> |        |     | Enthalpy Efficiency (Winter) η <sub>i</sub> |        |     | 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  | 220-240V<br>50/60Hz | 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 |                     | 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

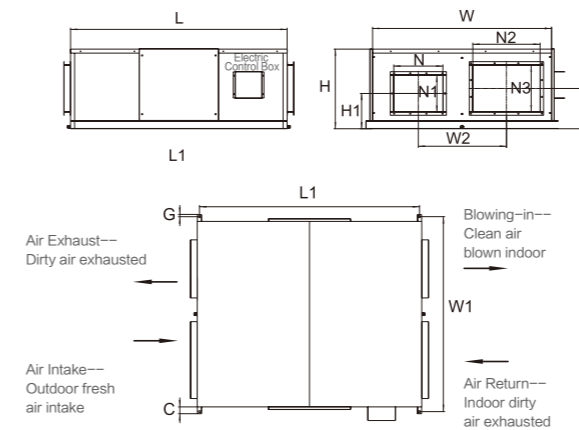
| Model        | Air Volume m <sup>3</sup> /h | Enthalpy Efficiency (Summer) η <sub>i</sub> | Enthalpy Efficiency (Winter) η <sub>i</sub> | External Static Pressure Pa | Power Supply  | Input Current A | Input Power kW | Noise Level dB(A) | Weight kg |
|--------------|------------------------------|---|---|-----------------------------|---------------|-----------------|----------------|-------------------|-----------|
| 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 |

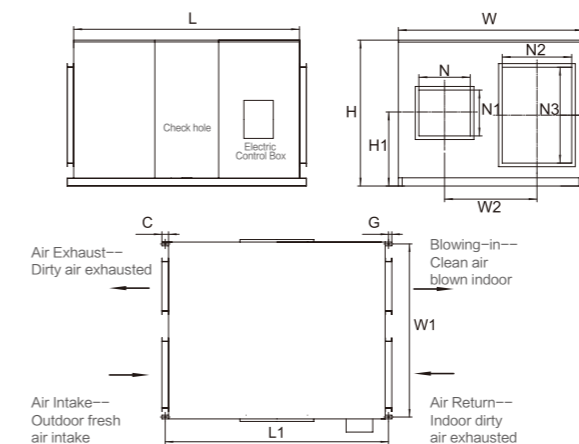
### Technical Parameters

| Model        | Air Volume m <sup>3</sup> /h | Enthalpy Efficiency (Summer) η <sub>i</sub> | Enthalpy Efficiency (Winter) η <sub>i</sub> | 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 m <sup>3</sup> /h | Enthalpy Efficiency (Summer) η <sub>i</sub> | Enthalpy Efficiency (Winter) η <sub>i</sub> | 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 HKL-400B2E9 HKL-500B2E9 AC 3Φ380V/60Hz HKL-400B2EF HKL-500B2EF

## AHU Connection KIT

The Hisense AHU-kit integrates external heat exchangers of Air-handling units (AHU) into a Hisense VRF system to provide more flexible air conditioning solutions.

### Main Function

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

— Communication wire    — Sensor signal    — Refrigerant pipe



\*The wired controller HYXE-VA01A is standard.

## AHU Connection KIT

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

| Capacity Control Mode                            | Set Temperature by Remote Controller   | Set ODU Capacity Range |
|--|--|------------------------|
| Inlet Air (room air) Temperature Control         | Cooling: 16~32 °C<br>Heating: 16~32 °C | —                      |
| Outlet Air Temperature Control                   |  |                        |
| Duty Signal Control<br>(0~10V or 0~5V or 4~20mA) | —                                      | 15%~100%               |

| AHU Connection KIT                      |                            | HZX-2<br>BEJ               | HZX-4<br>BEJ   | HZX-6<br>BEJ   | HZX-10<br>BEJ   | HZX-20<br>BEJ   |      |      |      |      | HZX-30<br>BEJ            |                 |       |       |       |       |       |
|---|----------------------------|----------------------------|----------------|----------------|-----------------|-----------------|------|------|------|------|--------------------------|-----------------|-------|-------|-------|-------|-------|
| Power Supply                            |                            | AC 1Φ, 220V~240V/50Hz/60Hz |                |                |                 |                 |      |      |      |      |                          |                 |       |       |       |       |       |
| Nominal Capacity of AHU                 | kBtu/h                     | 19                         | 36             | 54             | 76              | 96              | 114  | 132  | 154  | 170  | 190                      | 212             | 232   | 250   | 272   | 287   |       |
| Allowed Heat Exchanger Capacity (H/M/L) | Cooling                    | 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                         | 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                         | 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  |
|   | Heating                    | 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  |
|   |                            | 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                         | 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  |
| Heat Exchanger Volume                   | Min                        | dm³                        | 0.57           | 1.03           | 1.92            | 2.92            | 3.89 | 4.76 | 5.85 | 6.79 | 7.57                     | 8.47            | 9.04  | 9.50  | 10.39 | 11.39 | 12.36 |
|   | Max                        | dm³                        | 1.16           | 2.37           | 2.92            | 3.89            | 4.76 | 5.91 | 6.89 | 8.00 | 8.92                     | 9.97            | 11.13 | 12.34 | 12.89 | 13.86 | 14.73 |
| Equivalent Indoor Unit Capacity         | kBtu/h                     | 19                         | 36             | 54             | 76              | 96              | 114  | 132  | 154  | 170  | 190                      | 212             | 232   | 250   | 272   | 287   |       |
| Net Weight                              | kg                         | 7.1                        | 7.1            |                |                 | 7.2             |      |      |      |      | 9.2                      |                 |       |       |       |       |       |
| Gross Weight                            | kg                         | 11.7                       | 11.8           |                |                 | 11.9            |      |      |      |      | 15.4                     |                 |       |       |       |       |       |
| Package Dimension (H × W × D)           | mm                         | 350 × 510 × 450            |                |                |                 |                 |      |      |      |      |                          | 460 × 510 × 450 |       |       |       |       |       |
| Control Box                             | Model                      | HZX-BEJ/1                  |                |                |                 |                 |      |      |      |      |                          |                 |       |       |       |       |       |
|   | Outer Dimension(H × W × D) | 349 × 419 × 112            |                |                |                 |                 |      |      |      |      |                          |                 |       |       |       |       |       |
| Expansion Valve Box                     | Model                      | HZX-2<br>BEJ/2             | HZX-4<br>BEJ/2 | HZX-6<br>BEJ/2 | HZX-10<br>BEJ/2 | HZX-20<br>BEJ/2 |      |      |      |      | HZX-30<br>BEJ/2 (2 sets) |                 |       |       |       |       |       |
|   | Outer Dimension(H × W × D) | 166 × 437 × 61             |                |                |                 |                 |      |      |      |      |                          |                 |       |       |       |       |       |

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

DB: dry bulb; WB: wet bulb

Pipe Length: 7.5m; pipe height: 0m



# Control System








- Summary
- Wired Controller
- Wireless Controller
- Centralized Controller
- Intelligent Central Control System





COOLING ONLY

## Summary

| Model                         | Wired Controller |           |           |            |           | Wireless Controller | Central Controller |           |
|-------------------------------|------------------|-----------|-----------|------------|-----------|---------------------|--------------------|-----------|
|                               | HYXM-VB01A       | HYXE-VC01 | HYXE-J01H | HYXE-VA01A | HYXE-S01H | HYE-VD01            | HYJ-J01H           | HYJM-S01H |
| Picture                       |                  |           |           |            |           |                     |                    |           |
| Max. connectable indoor units | 6                | 6         | 16        | 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    | ●                | ●         | ○         | ○          | ○         | ○                   | ○                  | ○         |
| Individual louver control     | ●                | ●         | ●         | ●          | ○         | ●                   | ○                  | ○         |
| Breeze mode                   | ●                | ●         | ●         | ●          | ○         | ●                   | ○                  | ○         |
| Motion sensor                 | ●                | ○         | ●         | ●          | ○         | ○                   | ○                  | ○         |
| Health(AirPure)               | ●                | ●         | ●         | ●          | ○         | ●                   | ○                  | ○         |
| Hi-Motion                     | ●                | ○         | ●         | ○          | ○         | ○                   | ○                  | ○         |
| ECO(energy saving)            | ●                | ●         | ●         | ●          | ○         | ●                   | ○                  | ●         |
| Quiet                         | ●                | ●         | ●         | ●          | ●         | ●                   | ○                  | ○         |
| Sleep                         | ●                | ●         | ●         | ●          | ○         | ●                   | ○                  | ○         |
| Dry Contact Interface         | ●                | ●         | ●         | ●          | ○         | ○                   | ○                  | ○         |
| 3D-air flow                   | ●                | ●         | ●         | ●          | ○         | ●                   | ○                  | ○         |
| Self-cleaning                 | ●                | ●         | ○         | ●          | ○         | ●                   | ○                  | ○         |

Remarks: ●Available ○Unavailable

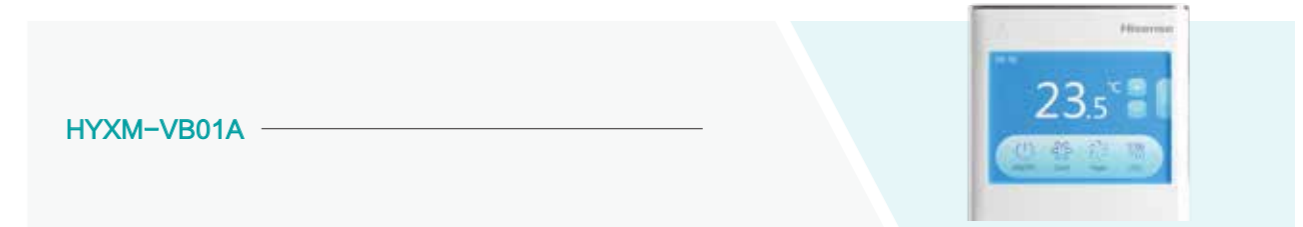
| Type        |                               | Wired Controller  |   |   |   |   | Wireless Controller   |
|-------------|-------------------------------|---|---|---|---|---|---|
| Model       |                               | HYXM-VB01A  | HYXE-VC01   | HYXE-J01H   | HYXE-VA01A  | HYXE-S01H   | HYE-VD01  |
| 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      | ●   | ▲   | ●   | ●   | ●   | ○   |
| AHU Kit     | ●                             | ●   | ●   | ▲   | ○   | ○   |   |

| Type        |                               | Receiver Kit  |   |   |   | Centralized Controller  |   |
|-------------|-------------------------------|---|---|---|---|---|---|
| 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      | ○   | ○   | ○   | ○   | ●   | ●   |
| AHU Kit     | ○                             | ○   | ○   | ○   | ●   | ●   |   |

Remarks: ● Optional ○ Incompatible ▲ Standard

Note: All the functions relevant with heating will be absence in all the controllers.

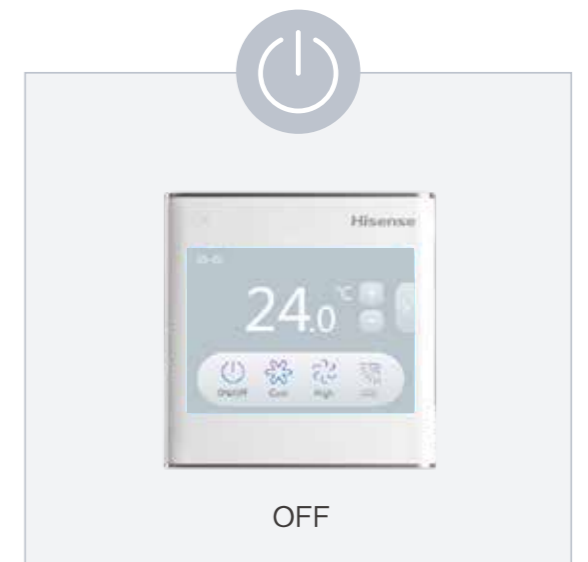
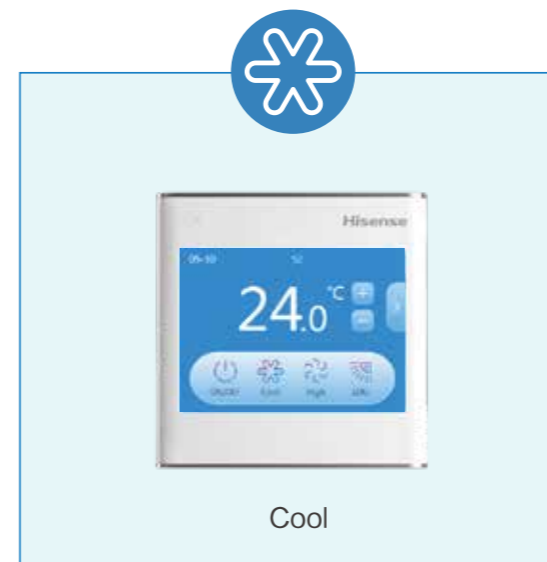
## Wired Controller



| Mode                          | Cool/Auto/Fan/Dry   |
|-------------------------------|---|
| Timer                         | 24-hour/Weekly schedule/Holiday setting   |
| Maintenance                   | Error code / Parameter check/Auto test run/<br>Indoor&Outdoor PCB checking/Self diagnostic function |
| Louver                        | Louver setting/Individual louver control/<br>3D-air flow  |
| Special function              | Breeze mode/Motion sensor/Health/<br>Hi-Motion/ECO/Quiet/Sleep/Self-cleaning                        |
| Fan speed                     | 6   |
| Temperature setting           | 0.5°C   |
| Main-sub control              | ●   |
| Air filter cleaning reminding | ●   |
| Back light                    | ●   |
| Wireless control available    | ●   |

- ### Features
- Size:86mm × 90mm
  - Max. connectable indoor units:6
  - LCD display
  - Touch screen
  - Language:  
VB01A: English,Turkish,Russian,  
German, Arabic,Spanish  
VB01A#01: English,French,Italian,  
Dutch,Polish,Thai

## Colorful Screen



HYXE-VC01



|                             |   |
|-----------------------------|---|
| Mode                        | Cool/Auto/Fan/Dry   |
| Timer                       | 24-hour   |
| Maintenance                 | Error code / Parameter check/Auto test run/<br>Self diagnostic function/Indoor & Outdoor PCB checking/<br>Air filter cleaning reminding/IDU address setting |
| Louver                      | 7 Louver setting/3D-air flow/<br>Individual louver control  |
| Special function            | Health/ECO/Quiet/Sleep/Self-cleaning  |
| Fan speed                   | 6   |
| Temperature setting         | 0.5°C accuracy/Display the setting temp. or room temp.  |
| Main-sub control            | •   |
| Wireless control available  | •   |
| Built-in temperature sensor | •   |

Features

- Size:86mm × 86mm
- Max. connectable indoor units: 6
- LCD display with back light
- Touch button
- Flat back-cover for easy mounting

HYXE-VA01A



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

Features

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

HYXE-J01H



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

Features

- Size:120mm × 120mm
- Max. connectable indoor units:16
- 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/Auto/Fan/Dry/Mute  |
| Timer                         | 24-hour   |
| Maintenance                   | Error code / Parameter check/Auto test run/<br>Indoor&Outdoor PCB checking/Self diagnostic function |
| Louver                        | Louver setting  |
| Fan speed                     | 6   |
| Temperature setting           | •   |
| Air filter cleaning reminding | •   |

Features

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



## Wireless Controller

HYE-VD01



### Features

|                             |  |
|-----------------------------|--|
| Mode                        | Cool/Auto/Fan/Dry  |
| Timer                       | 24-hour timer  |
| Maintenance                 | Auto test run/Self diagnostic function/<br>Identification of adjacent receiver |
| Louver                      | Louver setting/3D-air flow*/Individual louver control                          |
| Special function            | Health/ECO/Quiet/Sleep/Self-cleaning   |
| Fan speed                   | 6  |
| Temperature setting         | 1°C accuracy/Display the setting temp. or room temp.                           |
| Built-in temperature sensor | •  |

- Size:178.6mm × 47.8mm
- LCD display with back light

\* When used to control 3D air-flow Panels, an additional receiver kit of wireless control will be necessary.

## Receiver Kit for Wireless Control-Optional

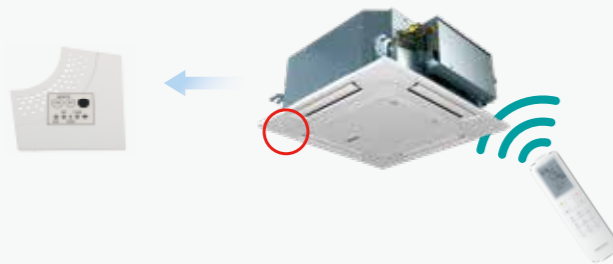
HYRE-X01H



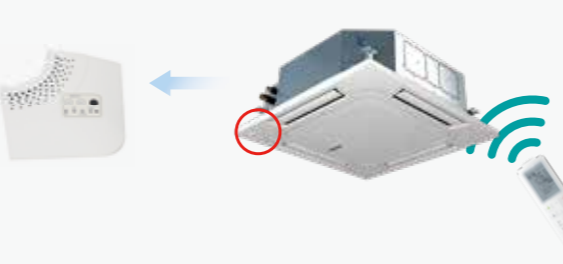
HYRE-V02H



HYRE-Z01H



HYRE-T03H



## Centralized Controller

Smart Touch  
HYJM-S01H



### Features

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

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

ON/OFF Controller  
HYJ-J01H



### Features

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

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

# Hi-Cloud Manager

Hisense Intelligent Control Solution



## Intelligent Control

### What is Hi-Cloud Manager?

Hi-Cloud Manager is the unified access management of Hisense HVAC intelligent control. Users can log in the control web at anytime and anywhere.

Five "Clouds" are embed in the web interface including Hi-Mit Cloud, Smart Touch Cloud, Hi-Dom Cloud, Hi-Checker Cloud, and Distributor Cloud (specially for distributors).

#### Features:

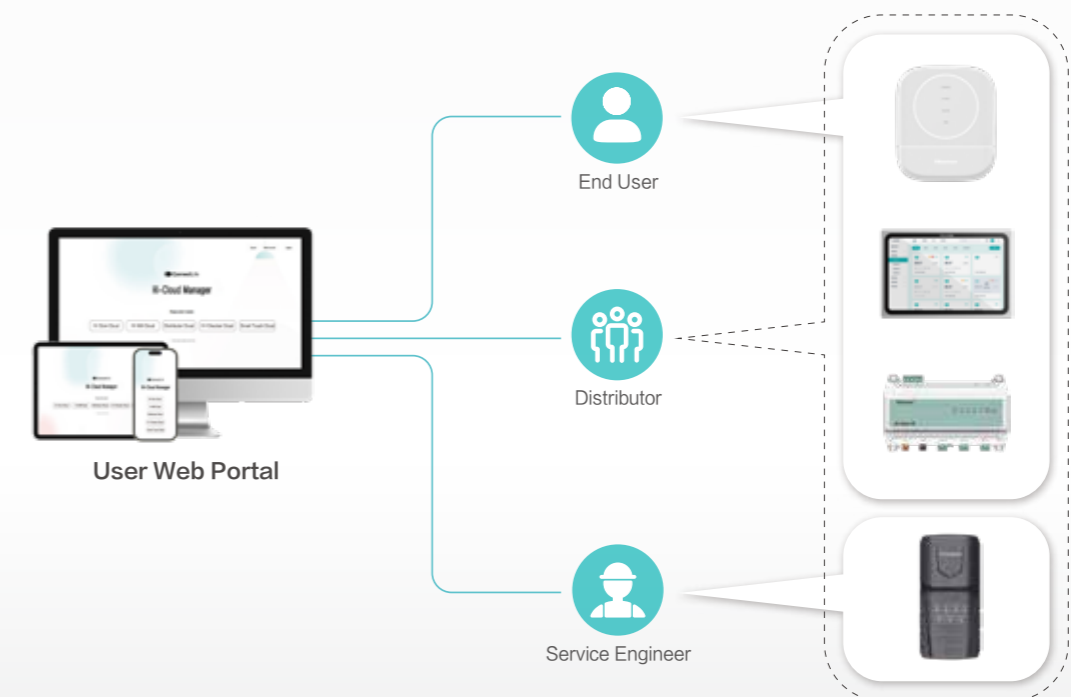
- Centralized remote control
- Overview of key data
- Operation statistics
- Global project map
- Project management
- Regional plane navigation
- Schedule management
- Energy conservation management
- Alarm and message management

**URL** <https://hicloudmanager.hijuconn.com>

It's recommended to use the Chrome browser.

#### Users-friendly

- **End user**  
Create a customized and convenient smart experience.
- **Distributor**  
Upgrade service capabilities for the projects under control.
- **Service engineer**  
Ensure efficient service to improve customers' satisfaction.





Hi-Mit II

Anytime and anywhere, control is in your hands

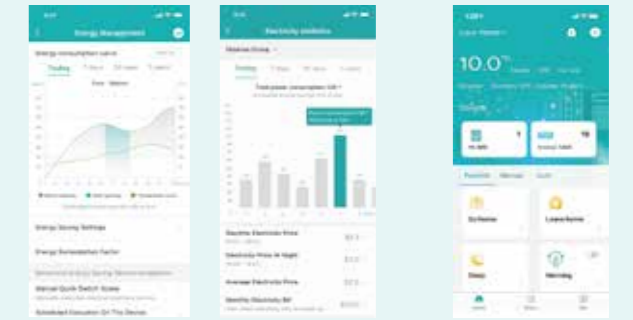
Brand-new Adapter and App

- Stylish appearance and compact body
- Compatible with VRF, hydro box and heat recovery ventilator
- Supporting OTA update
- Simple and intuitive interfaces



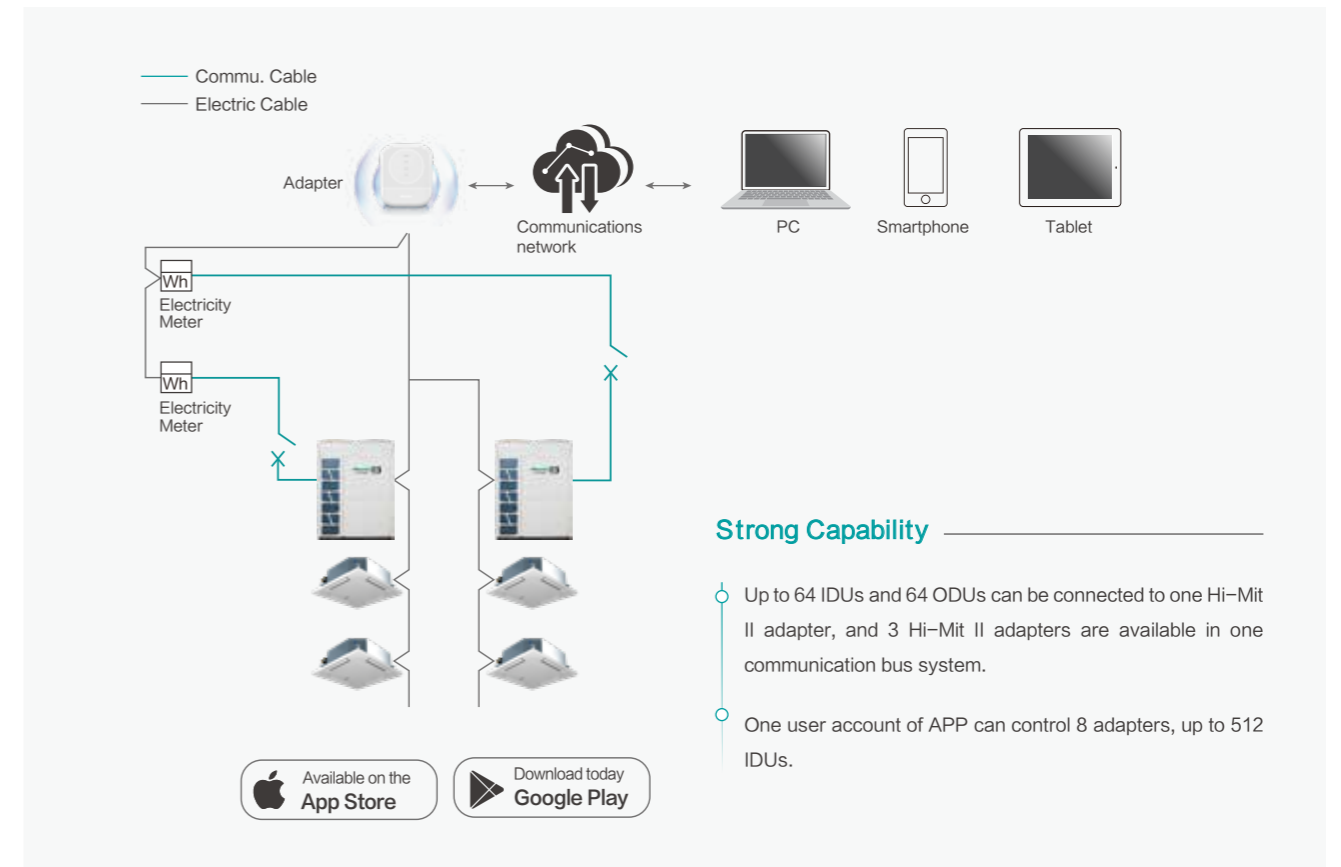
Convenient Control

- 12 languages available
- Energy management
- 2-level permission
- Online repair
- 7x24 schedule setting
- Customized scenes setting



Energy management interface

Customized mode interface



Strong Capability

- Up to 64 IDUs and 64 ODUs can be connected to one Hi-Mit II adapter, and 3 Hi-Mit II adapters are available in one communication bus system.
- One user account of APP can control 8 adapters, up to 512 IDUs.

Specifications

| Model         | Power Supply | Max. Current | Power Input | Dimension   | Net Weight |
|---------------|--------------|--------------|-------------|-------------|------------|
| HCCS-H64H2C1M | DC 12V       | 1A           | 2.4W        | 91x117x31mm | 0.14kg     |





Hi-Dom III

Features

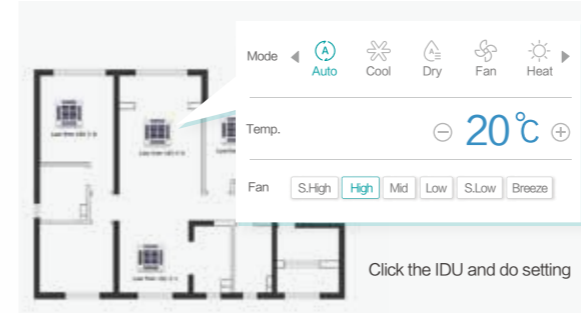
- Remote control available
- Multilevel user management
- AC control (on-off, mode, temp, air flow)
- AC locked control (running forbidden control, the max. and min. temp and cooling/heating locked)
- Running according to timer
- Malfunction history check
- Running record display
- Data synchronize
- Supporting for external I/O
- 2D navigation
- Electricity consumption allocation
- Multiple languages available
- Standard with Modbus RTU port

● Humanized interaction interface and comfortable user experience.

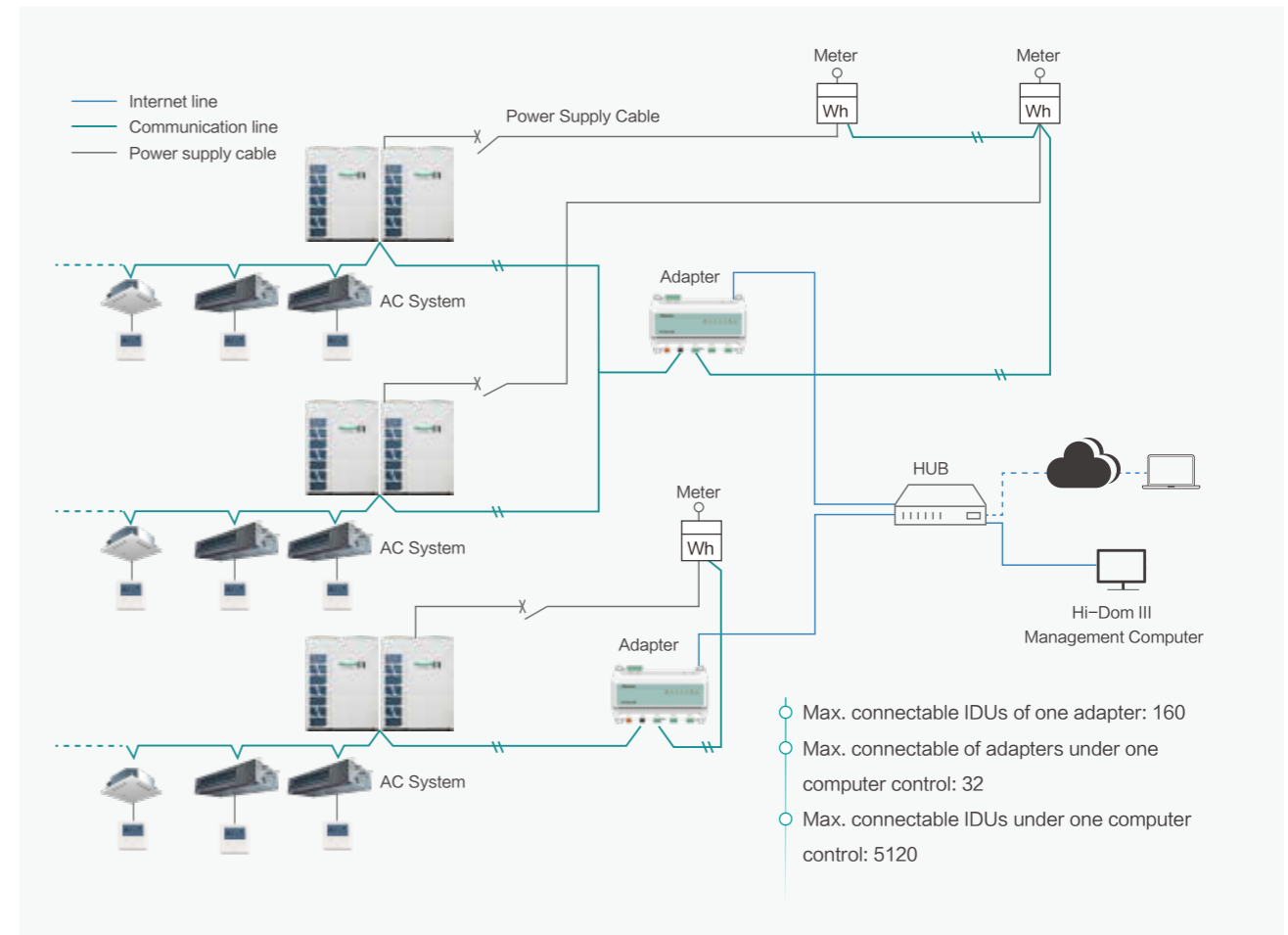
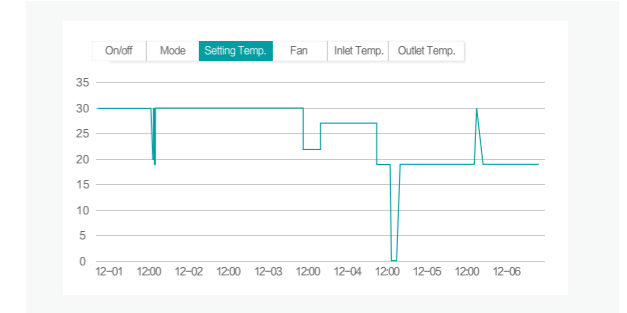
● The electricity consumption allocation makes it easy for users to allocate total electricity consumption among building occupants. Both segmented tariff and single tariff are available.



● Thanks to the 2D navigation, users can import floor plans and place indoor units in the corresponding rooms, creating a tailored system schematic. Thus all the indoor units can be monitored and controlled intuitively.



● Support operation history data record like the below picture. Also the operation data can be exported to excel format, convenient for customers to read.



- Max. connectable IDUs of one adapter: 160
- Max. connectable of adapters under one computer control: 32
- Max. connectable IDUs under one computer control: 5120

Specifications

| Adapter | Model           | Power Supply | Dimension (LxWxD) | Note                               |
|---------|-----------------|--------------|-------------------|------------------------------------|
|         | HCCS-H160H2C2YM | 12V          | 180x115.4x64.5mm  | With electric charging function    |
|         | HCCS-H160H2C2NM | 12V          | 180x115.4x64.5mm  | Without electric charging function |



Hi-Checker

Intelligent service tool, improves your service

Hi-Checker is a plug and play service tool, with which service engineers can access the system and monitor operation status or data, very convenient for system communication and maintenance. Besides, it features cloud-based management, easy to access operation status remotely.



Small and Portable Body



Remote Access



Black Box Function



Powerful Chats



OTA Update

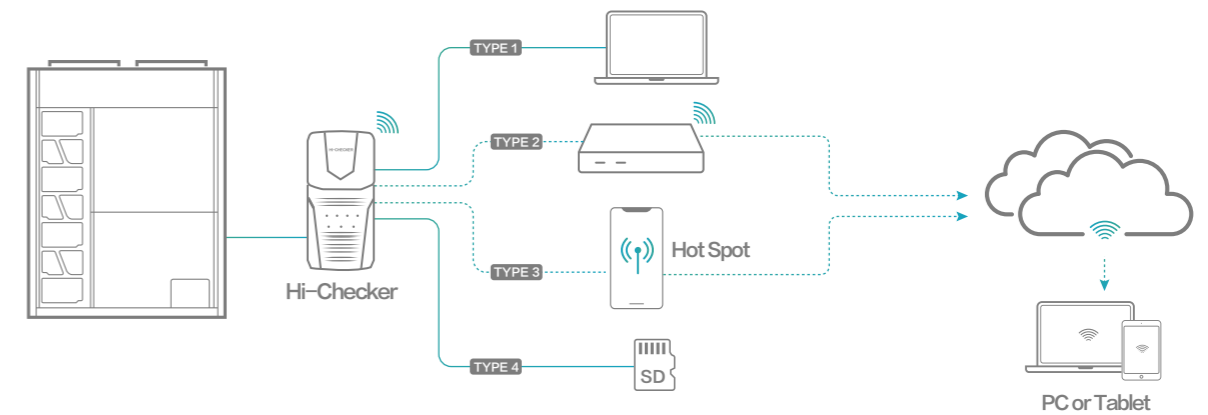
Easy to Use

- Compact size which allows high portability and space saving.
- Capable to slot in a 32G memory card for data collection and storage. Also the memory card and card reader are standard with Hi-Checker.
- Multiple choices of power supply types. It can be powered by the standard adapter (DC 5V), computer or power bank.
- Support OTA update, ensuring the software is always up to date.



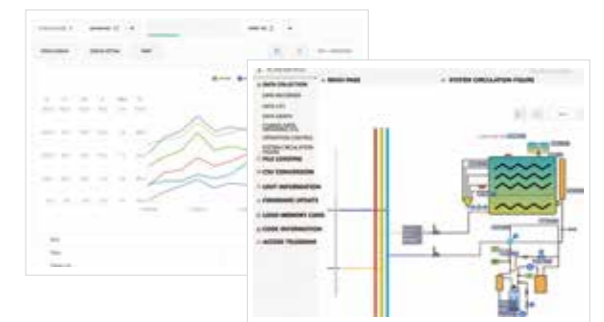
4 Ways to Access the Operation Data

- Conventional connection type. The simplest and reliable way by just connecting the Hi-Checker to your computer directly through USB.
- Internet connection type. Be connected to a stable Wi-Fi signal to achieve operation data and status monitoring anytime and anywhere.
- Hotspot connection type. Be connected to a temporary hotspot signal from the smartphone, allowing the Hi-Checker to remotely monitor the operation data when there is no stable Wi-Fi signal on site.
- SD card storage type. Hi-Checker equipped with SD card can be connected to the air conditioning system all the time, so that all the operation data can be stored in the card for later analysis.



Easy to Understand

- Powerful and detailed chart analysis on the operation data, allowing users to determine the system condition easily. Together with the smart system diagram, it is interesting and easier for maintenance.
- Users can export the professional report either in .csv or .pdf format, very user-friendly.

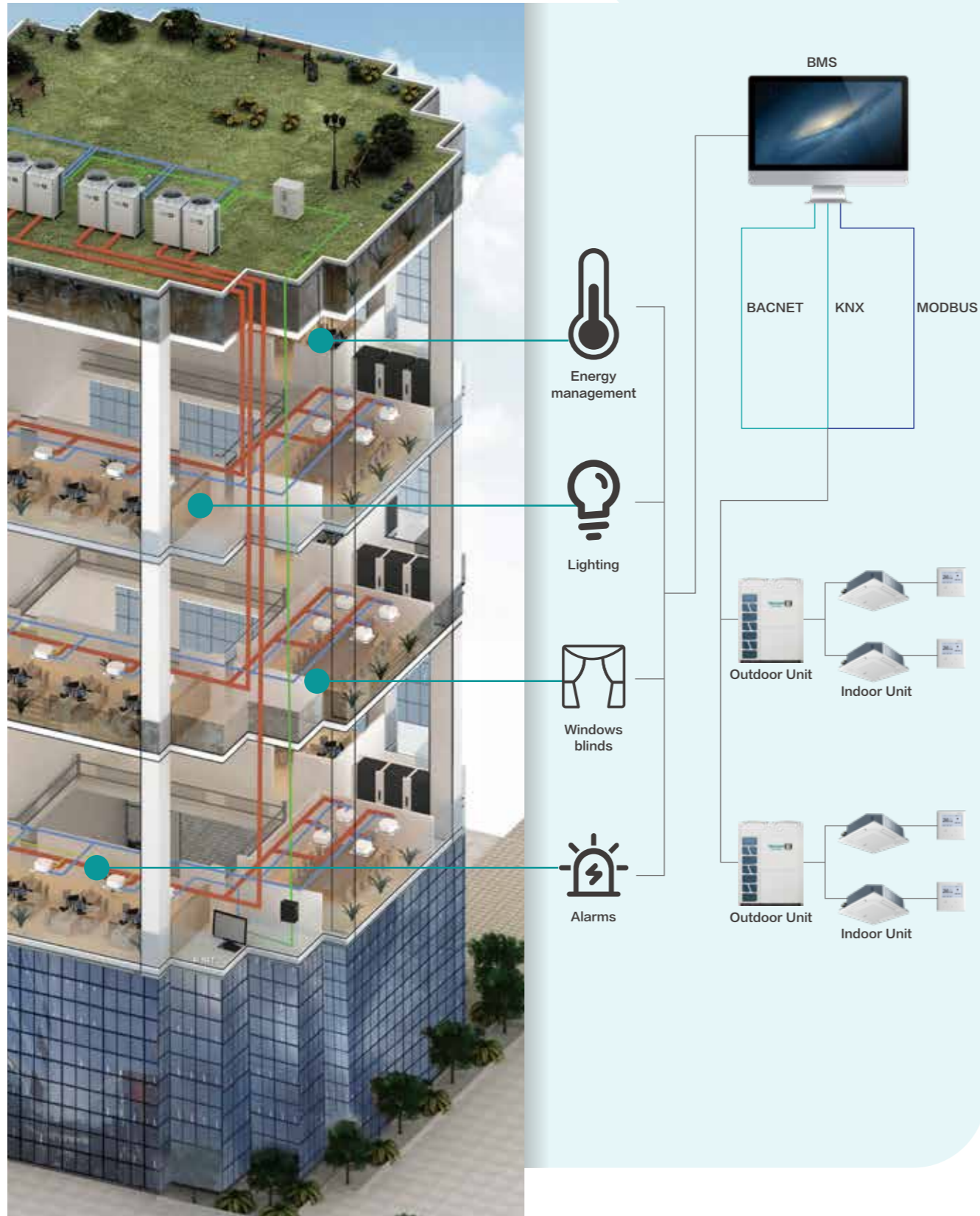


Specifications

| Mode          | Size (LxWxH)mm | Net Weight (g) | Power Supply | Connectable IDUs |
|---------------|----------------|----------------|--------------|------------------|
| HCCS-H64H2C2M | 138x68x28      | 130            | 5V= 500mA    | 160              |



## 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                            | DC, 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
  - Dry/ Fan/ Cool/ Auto mode
  - Control-vane position swing control
  - Function prohibition of wired controller

NOTE: Bacnet® is a registered trademark of American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE).  
Modbus® is a registered trademark of Schneider Electric.  
KNX® is a registered trademark of Konnex.




# Accessory


## 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 Type, Wall Mounted Type |  |

## Filter

| Filter model     | Filter Dimension         | Frame Dimension   | Application Models  | Picture   |
|------------------|--------------------------|-------------------|---|---|
| HF-224L-FE       | 910 × 432.5mm            | 1055 × 463mm      | AVD-76UX6SEH/L  |  |
| HF-280L-FE       | 1100 × 432.5mm           | 1245 × 463mm      | AVD-76/96HJFH<br>AVD-96UX6SFH/L                                 |   |
| Filter box model | Dimension (L × W × H) mm | Applicable Models | Applicable Filter   | Picture   |
| HFB-96LFGDE      | 1339 × 384 × 462         | AVD-76/96HJFH     | High-efficiency filter: HF-96HFGDE<br>Coarse filter: HF-96LFGDE |  |

## Drain Pump

| Model      | Applicable Models  | Power Supply     | Picture  |
|------------|--|------------------|--|
| HPS-F133E  | AVD-07-24HJFH / AVD-07-24HCFCCH / AVD-07-24HCFCCL                                  | 220-240V/50Hz    |  |
| HPS-F363E  | AVD-24HJFH1 / AVD-30-54HJFH / AVD-27-54HCFCCH / AVD-27-54HCFCCL                    |                  |  |
| 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-F8103E | AVD-76/96HJFH  | 220-240V/50/60Hz | HPS-151<br>HPS-F8103E  |

## 3D Air-flow Panel

| Panel Model | Applicable Models   | Outer Dimensions (H × W × D) | Picture  |
|-------------|---|------------------------------|--|
| HP-CB-NA    | Ceiling ducted type ( DC / AC low-height ) AVE-05/07/09/12* | 180 × 740 × 70mm             |  |
| HP-DB-NA    | Ceiling ducted type ( DC / AC low-height ) AVE-15/17*       | 180 × 950 × 70mm             |  |
| HP-EB-NA    | Ceiling ducted type ( DC / AC low-height ) AVE-19/22/24*    | 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                       |   |

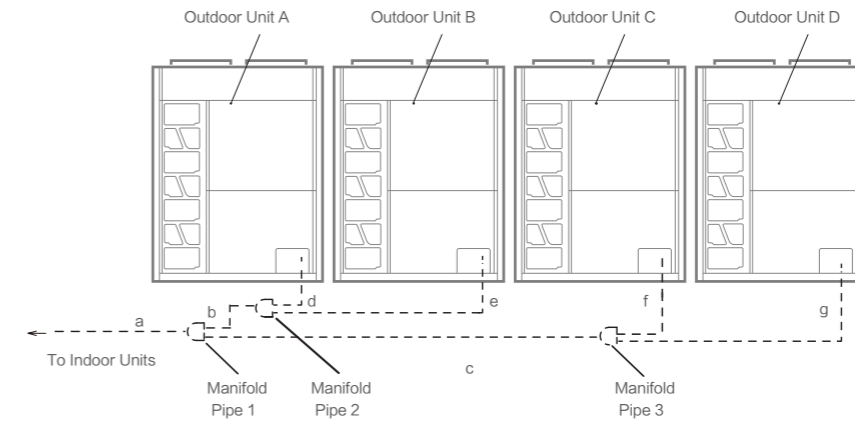
## Voltage Protector

| 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)



Standard Combination

| Outdoor Unit   | AVWT-290-422CKFSE | AVWT-444-544CKFSE | AVWT-552-634CKFSE | AVWT-654-696CKFSE | AVWT-714-816CKFSE | AVWT-824-886CKFSE | AVWT-908-1088CKFSE |
|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| 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          |

High-efficiency Combination

| Outdoor Unit   | AVWT-152-228CKFSE | AVWT-250CKFSE | AVWT-268-364CKFSE | AVWT-386CKFSE | AVWT-402-420CKFSE | AVWT-438-456CKFSE | AVWT-478CKFSE |
|----------------|-------------------|---------------|-------------------|---------------|-------------------|-------------------|---------------|
| Manifold Pipe1 | HFQ-M22F          | HFQ-M32F      | HFQ-M32F          | HFQ-M32F      | HFQ-M32F          | HFQ-M462F         | HFQ-M462F     |
| Manifold Pipe2 | -                 | -             | HFQ-M22F          | HFQ-M32F      | HFQ-M22F          | HFQ-M22F          | HFQ-M32F      |
| Manifold Pipe3 | -                 | -             | -                 | -             | HFQ-M22F          | HFQ-M22F          | HFQ-M22F      |

### Branch Pipe (For indoor unit)

First Branch Pipe

| 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  |

First Branch Pipe ~ Last Branch Pipe

| 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 |

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.