Hisense

Qingdao Hisense HVAC Equipment Co.,Ltd.
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HCAC-CA-ELCPLUS202201

Hisense VRF

Hi-Smart

E+ L+ C+

Reimagine your solution

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

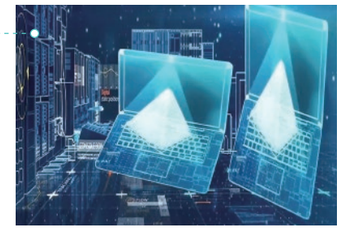
TV and Display Devices
Internet TV Operation
Mobile Communication Devices
Optical Communication
Devices
Chip

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 MARKETING

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.

2014

Official Sponsor of the Australian Open

2015

Team Supplier to Red Bull Racing

2016

Official Partner of UEFA EURO 2016

2018

Official Sponsor of the 2018 FIFA World Cup

2020

Official Partner of UEFA EURO 2020

2022

Official Sponsor of the 2022 FIFA World Cup

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 50 national standards, industry standards and association standards, and boasts 1045 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, 2021.

266,000 m^2
Manufacturing Area

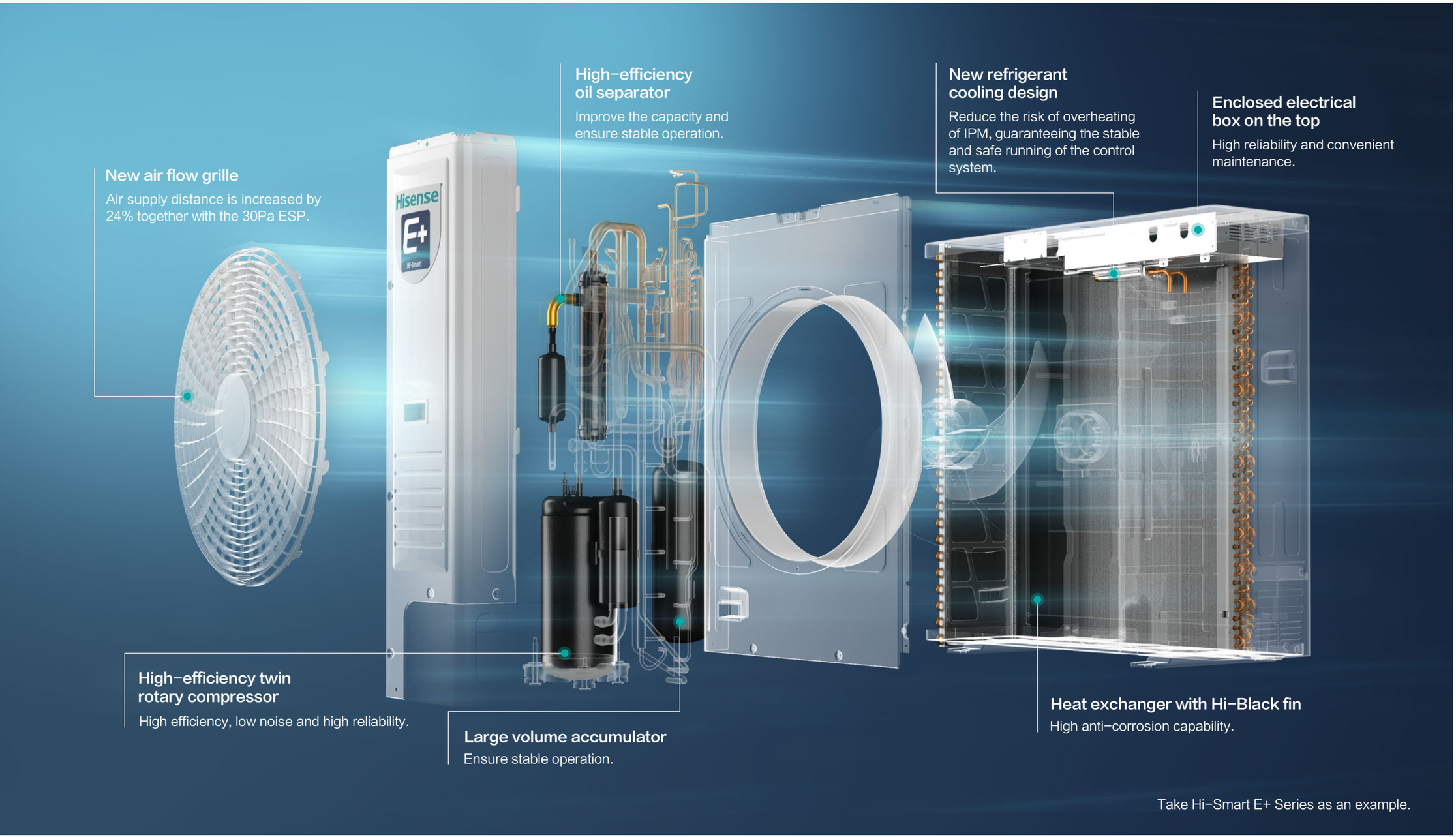
40+
Production Line

6,000,000 units/year
Production Capacity

16,700 m^2/70+
Laboratory

CONTENTS

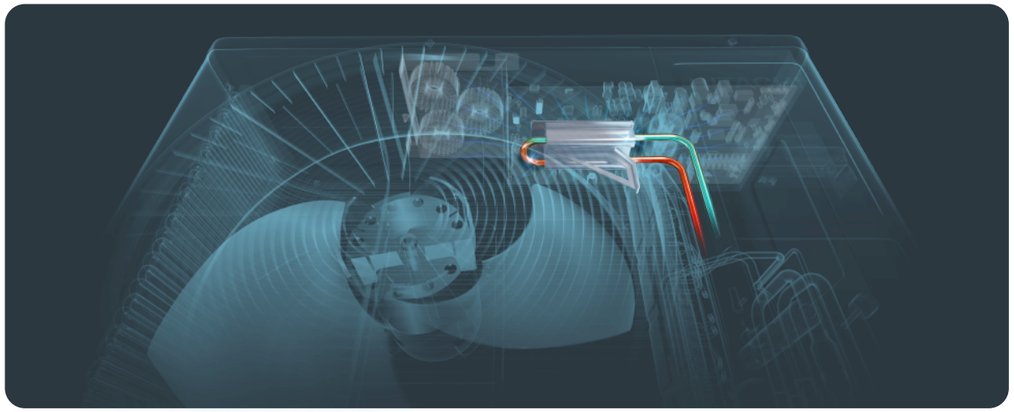
BRAND-NEW UPGRADE



Take Hi-Smart E+ Series as an example.

Patented 360° Fitted Refrigerant Cooling Technology

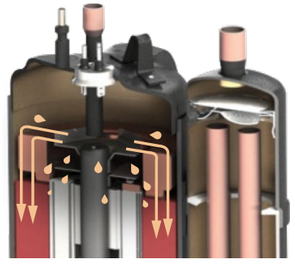
To maintain the lifespan of the delicate electronic components, the unit uses patented 360° fitted refrigerant cooling technology to cool the whole electronic box effectively. It can overcome poor heat dissipation and solve high ambient temperature issues inside the electronic box, maintaining an efficient and reliable operation under harsh environment.



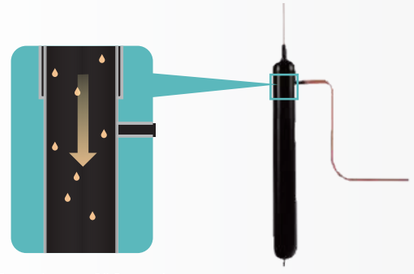
Note：1.Compared with air-cooled technology, the temperature in electric box can be reduced about by **10%**.
2.There is no refrigerant cooling kit inside the Hi-Smart L+ series(single phase unit).

Multiple Oil Control

Oil separation



First-stage Oil Separation



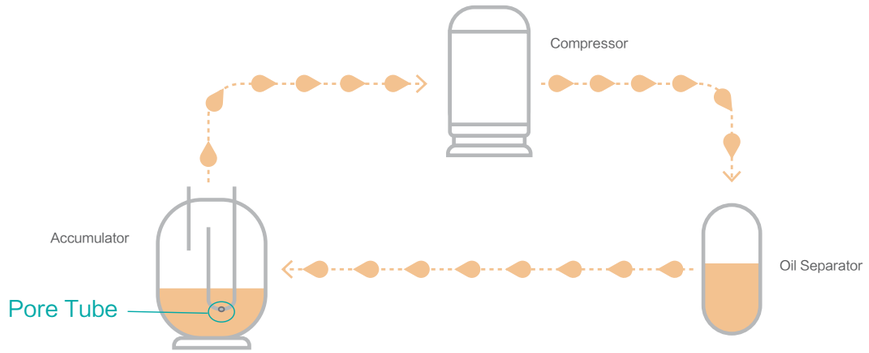
Second-stage Oil Separation

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

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%.

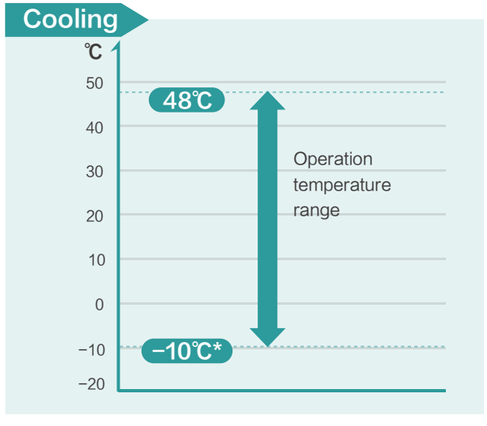
Oil return

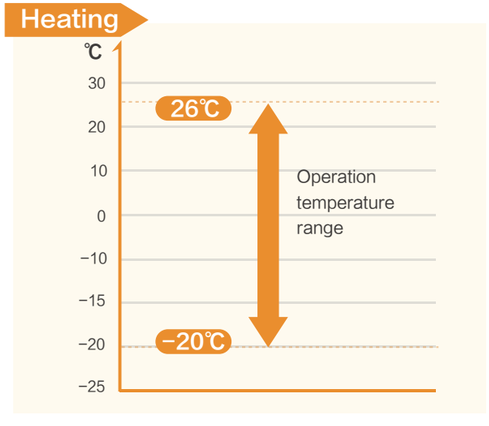
The accumulator adopts pore tube oil return technology with a built-in fine strainer, which not only ensures oil balance between compressors within one module, but also plays an important role in the oil balance between modules.
Besides this, the system implements oil-return function based on compressor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



Wide Operating Range

Extended operation range creates wider application potential, in cooling mode the operation range is from −10℃* to 48℃ and in heating mode the operation range is from −20℃ to 26℃, which adapts to many extreme conditions.





* In cooling mode, the operation is under interval operation when the temperature is below −5℃.

Enclosed Electrical Box

Thanks to the enclosed electrical box design of E+ series unit, the small insects can be prevented entering the electrical box, ensuring the normal operation of the system. Besides, the electrical box is located in the top part of the unit independently, easy for communicate and maintenance.

Insect Protection

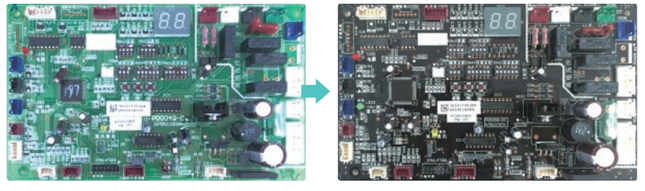
Top Located

Convenient Maintenance

Note: Enclosed electrical box located in the top is adopted only in E+ series.

Industrial PCB

The PCB of indoor and outdoor are made of black double sided resin board with high integration level. The highly integrated black PCB will greatly improve the reliability and efficiency of the electronic components and reduce the electromagnetic interference.

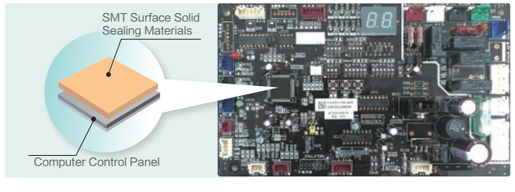


Hisense PCB board:
Epoxy resin composite substrate: double-sided printing, SMD welding, high strength, good weather resistance, great flame retardancy, high reliability, compact structure, small size.

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

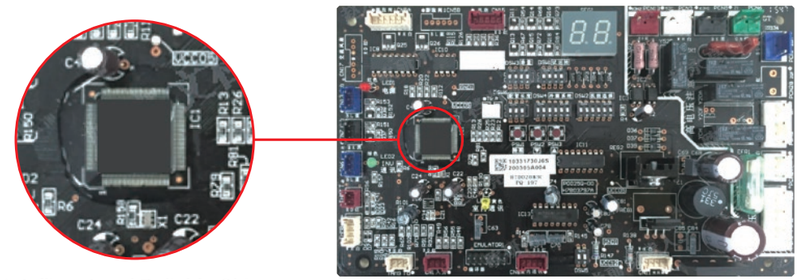
SMT Sealing Technology

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



Error Information Storage "Black Box"

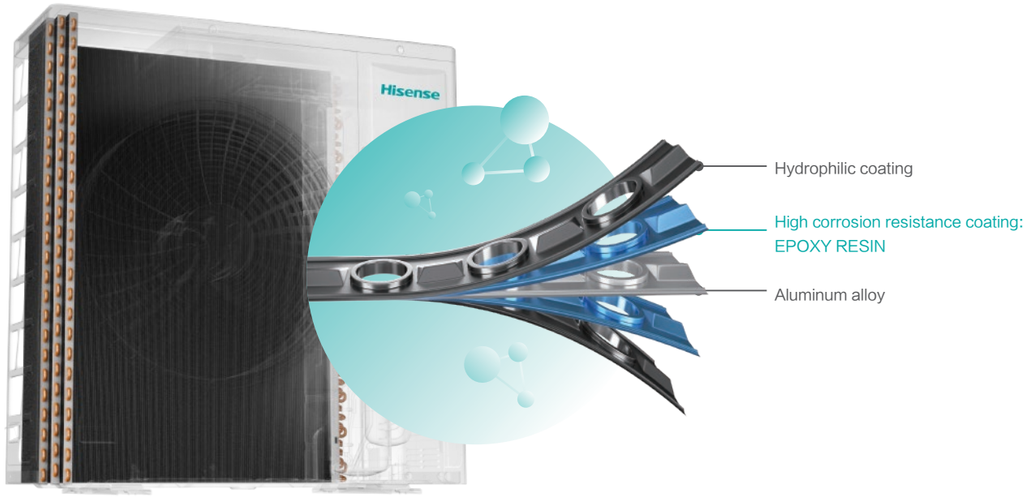
Both the main PCB of outdoor unit and the wired controller can store error information so that the maintenance personnel can detect the operation information before the malfunction and determine the cause. It greatly simplify the maintenance.



Intelligent and Reliable Chip

Hi-Black Fin (Standard)

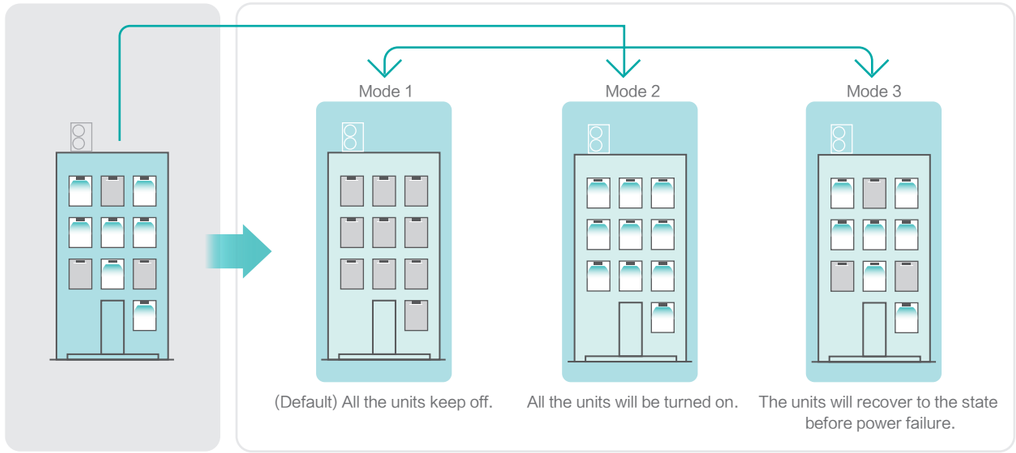
All the heat exchangers adopt Hi-Black fin, which has excellent anti-corrosive performance. Hi-Black fins are coated with epoxy resin using film-forming techniques while the traditional resins are acrylic resins. The epoxy resin is 1.5 times thicker than acrylic resin, and its acid-resistant, alkali-resistant and salt-fog resistant properties is 3 times better than acrylic resin.



Note: For the anti-corrosive solution for the whole outdoor unit, please contact with our 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.

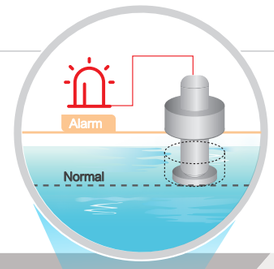


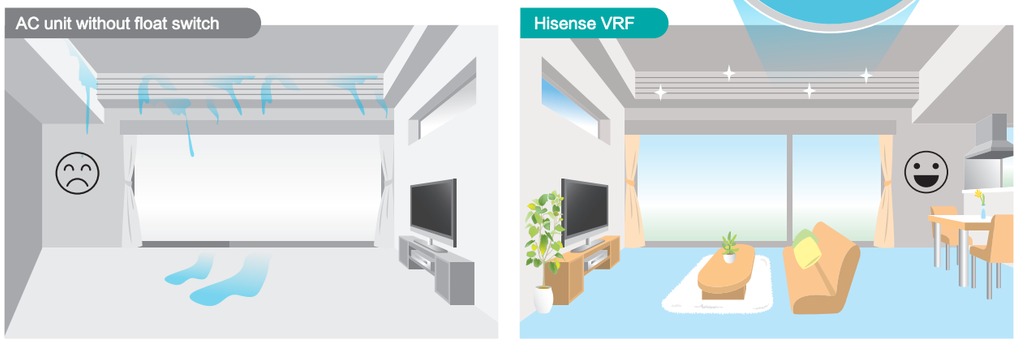
Before Power Off

When Power On

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.





RELIABILITY

Multiple Protections

Inverter Protection

- Inverter temperature protection
- Voltage protection

Compressor Protection

- Gas suction protection
- Heater belt control
- Start conditions limit
- Exhaust superheat protection
- Compressor ratio protection
- High pressure rising protection
- High/low pressure protection
- Exhaust temperature protection
- Current protection

Electric Protection

- Voltage phase failure
- Current protection
- Motor protection
- Protecting from lightning

System Protection

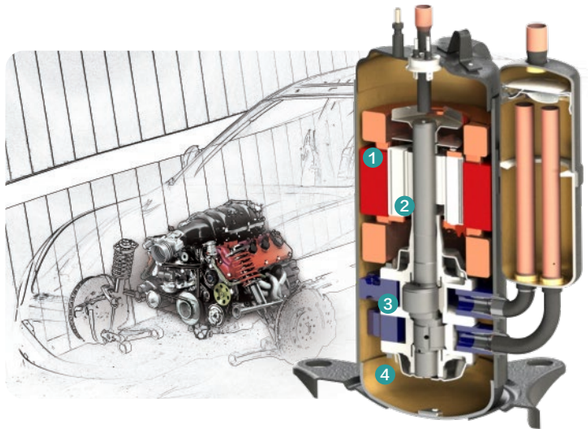
- Ventilator pressure protection
- Four-way valve protection
- Indoor and outdoor temperature protection
- Subcooling protection

Three-level Protection

- Alarm Code
- Retry(Self-adjusting)
- Protection Code

High-efficiency DC Inverter Compressor

A high-efficiency DC inverter dual rotary compressor is adopted. It features unique dual-pressure chamber design and symmetrical location, which can effectively reduce the vibration and noise and improve the compressor performance, especially the performance under low-frequency operation.
Moreover, the dual rotary compressor has a small lubricating oil injection volume with stable oil return, and comes with a gas-liquid separator, which makes the system more reliable.



1 High-efficiency motor
Optimize the motor design to improve compressor performance.

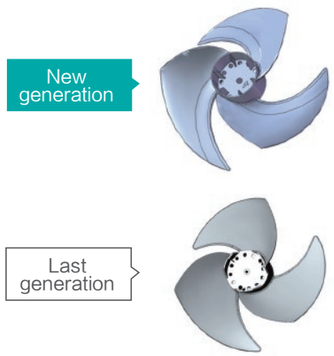
2 Optimized rotor design
Lower the center of gravity of the compressor to reduce the noise and vibration.

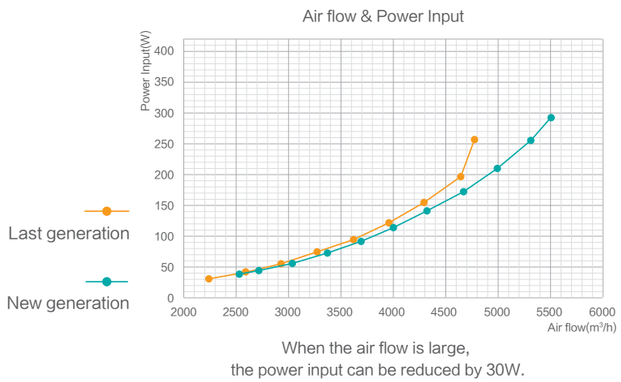
3 Flat mechanism design
Improve the volumetric efficiency and the total performance.

4 Screw interactive fastening
Improve fastening effect and reduce deformation of the core.

Brand-new High-efficiency Fan Motor

The outdoor unit adopts DC inverter fan motor to realize stepless speed regulation, ensuring stable and efficient operation. What's more, the new generation high-efficiency axial flow fan with curved and soft line blade enables stronger flow and lower noise.

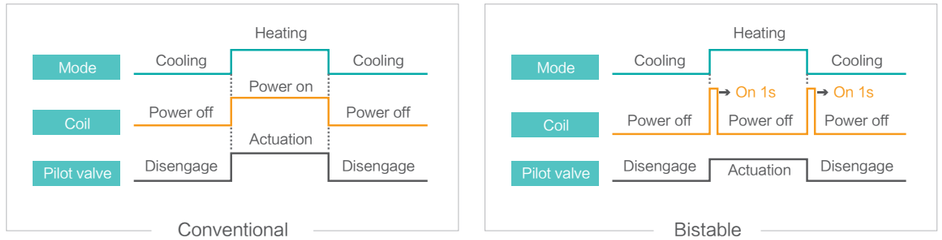




When the air flow is large,
the power input can be reduced by 30W.

Bistable Four-way Valve

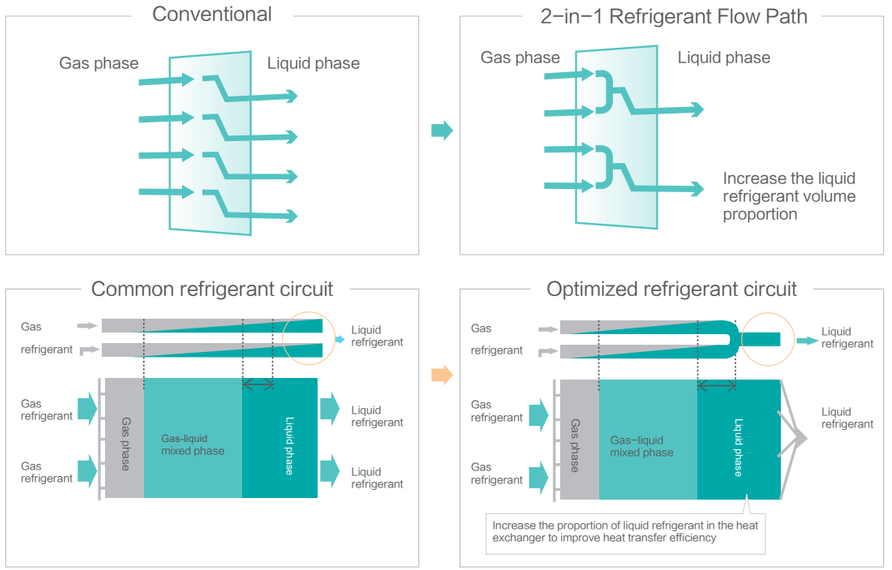
The bistable four-way valve is adopted in the outdoor unit, which only consumes power when reversing. During the normal operation (regardless of cooling or heating), it is no need to be energized. Compared with conventional four-way valve, it is more energy-saving. Moreover, the reliability of valve coil is greatly improved.



High-efficiency Heat Exchanger

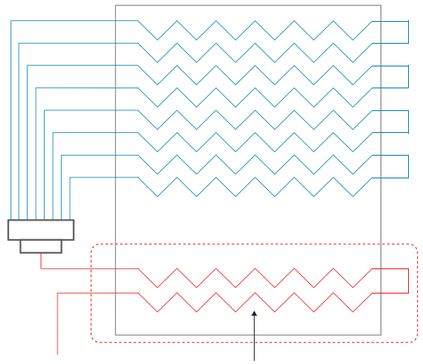
Optimized Refrigerant Circuit

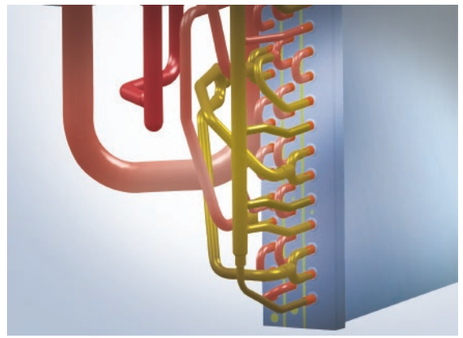
Using high precision imported equipment, our Hisense manufactured heat exchangers are of the highest quality. The non-expansion tube technology avoids reduced lifetime reliability caused by the stretching of copper pipes. The multi-column Φ7 refrigerant tubes effectively increase the heat exchange area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



New Anti-frosting Design at the Bottom

Advanced design of anti-frosting structure at the bottom of heat exchanger ensures the bottom of heat exchanger frost-free while heating operation. Also, under defrosting mode, the ice water mixture left on the fins can be fully heated to liquid, and can be discharged through the drain holes at the bottom, avoiding poor heating performance caused by frost accumulated on the coil.





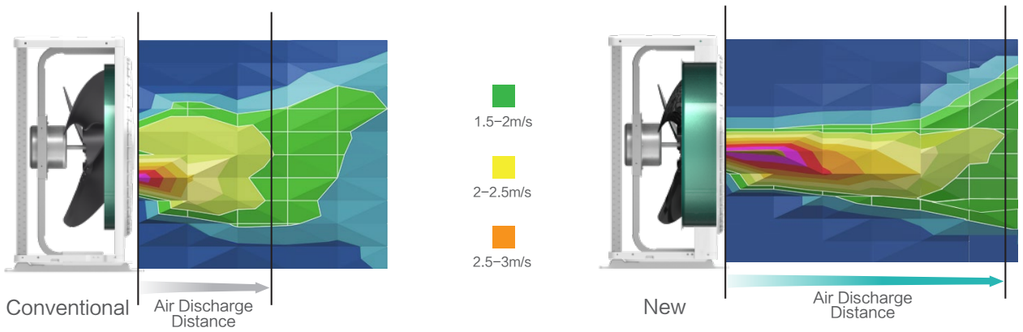
Further Air Discharge Distance

Optimized Air Duct System Design

An additional air duct like channel surrounding the fan is designed to further discharge the air and avoid discharge air from being absorbed again. Besides, together with the 30Pa external static pressure, air is tested to discharge up to 24% further compared with the conventional one.

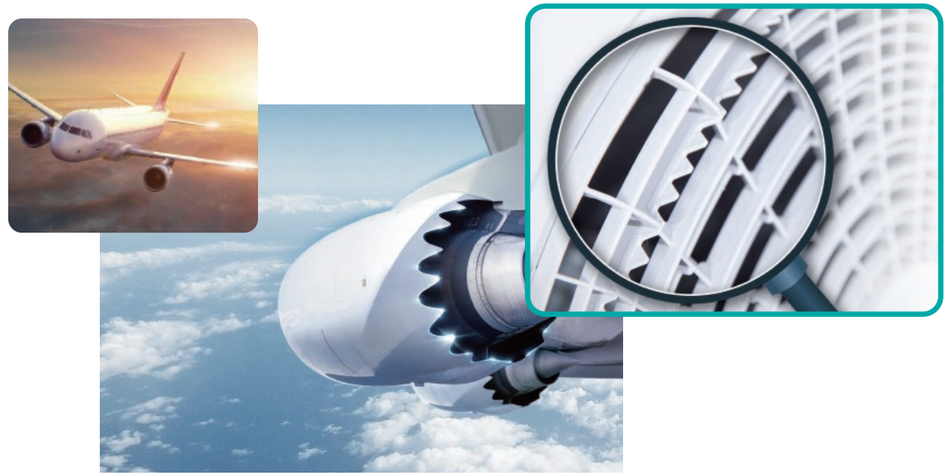
24% Further Air Discharge

30Pa ESP



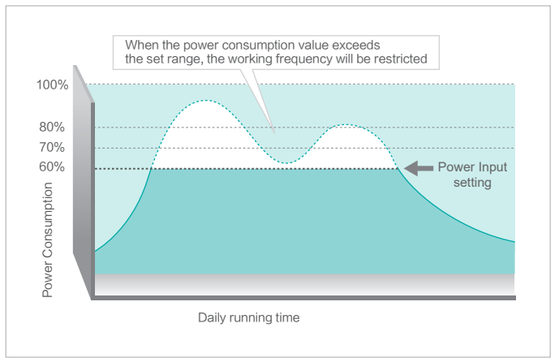
Aviation Level Design of Grill

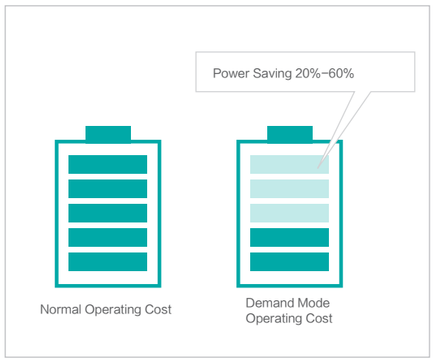
The design of the grill follows the design concept of the aircraft engine design, which conforms to the aerodynamics principle. It helps to improve the air discharge distance and heat exchange effect, maximizing the cooling and heating performance.



Demand Mode

The intelligent demand mode can adjust the air conditioning system capacity output automatically according to peak-valley requirements of electricity. There are three levels setting, 80%, 70% and 60%. It achieves balance between comfort and energy-saving while meeting the power demand for daily work.

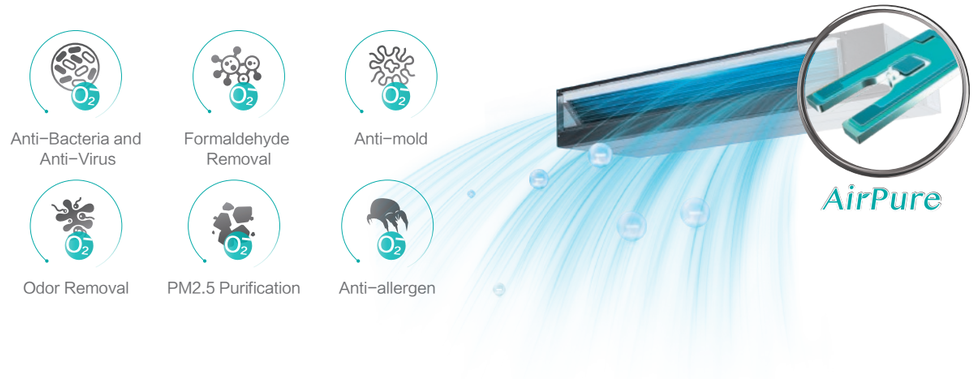




AirPure

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.

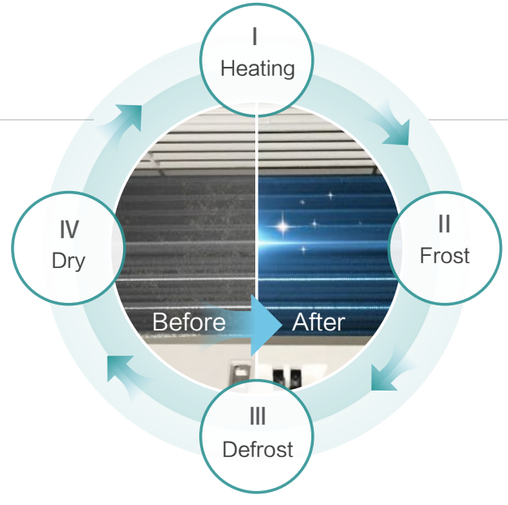
*Take AVE-09HCFRL as the test sample.



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

Self-cleaning Function

Featured with self-cleaning technology, the evaporator can be self-cleaned automatically, preventing the dust and potentially harmful substances from accumulating on the surface of the heat exchanger. Thus the air blown from the air conditioner is clean and healthy.

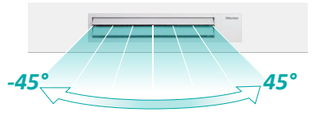


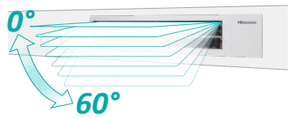
4 processes for deep cleaning

Note:
At present, the self-cleaning function is available in the wall mounted unit.

3D Air-flow Panel

The 3D air-flow panel with luxurious appearance is available for the low-height ceiling ducted indoor units. The 3D airflow panel can offer even airflow and wide airflow coverage to keep every corners of your room cool or warm. It also has three wind setting, normal mode, 3D mode and super long distance mode, flexible for you choice.

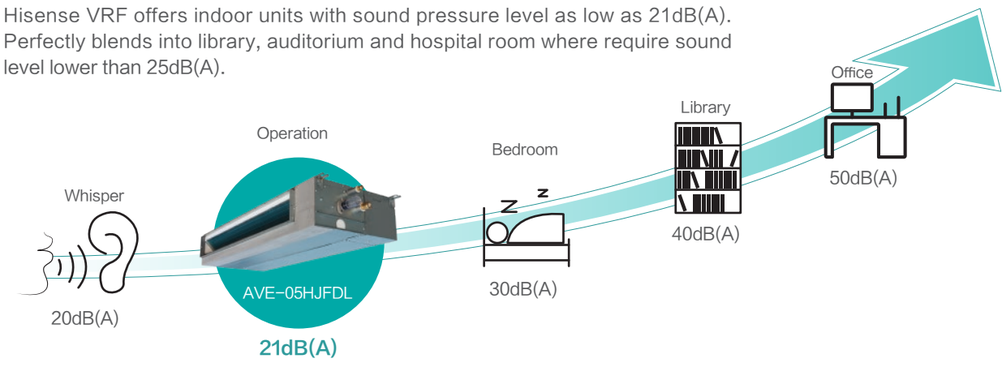




Indoor Unit Quiet Operation

Noise Control of Indoor Unit

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



Note：The value is measured at low-speed operation in an anechoic chamber.

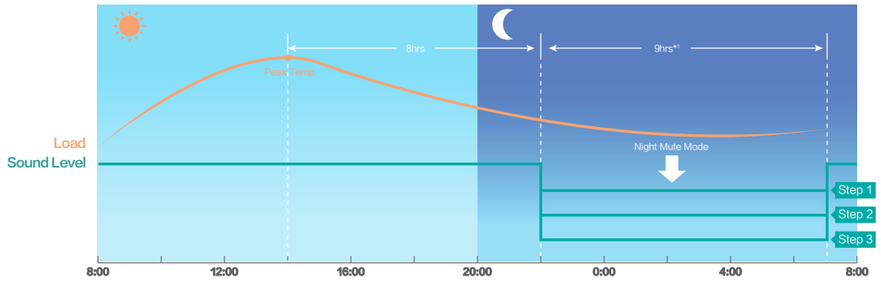
Convenient Eliminate Four Kinds of Noise

- Eliminate the whistling noise of the EEV
- Eliminate refrigerant flow noise
- Dispel the wind blowing against fins noise
- Eliminate abnormal electromagnetic noise of fan motor

Outdoor Unit Noise Control

Auto Night Quiet Mode

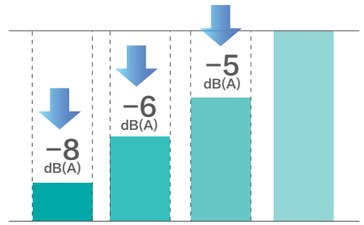
In gerneal, people are more sensitive to noise at night. Night quiet mode can be activated when necessary, and the noise can be reduced by up to 8dB(A).



Step 1: 5dB(A) decreased; Step 2: 6dB(A) decreased; Step 3: 8dB(A) decreased.

Low Noise Mode

Users can flexibly set the low noise mode at any time. There are three levels for choice, which can be set on the controllers or the PCB.



Precise Temperature Control

Multiple thermal probes in indoor unit to provide precise real-time temperature feedback.

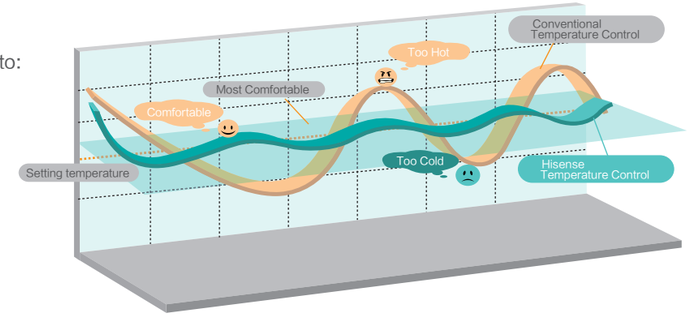
*Outlet air temp sensor suitable for certain units

2000-step electronic expansion valve to ensure precise flow adjustment based on the actual load of Indoor Unit.

2000-step Electronic Expansion Valve

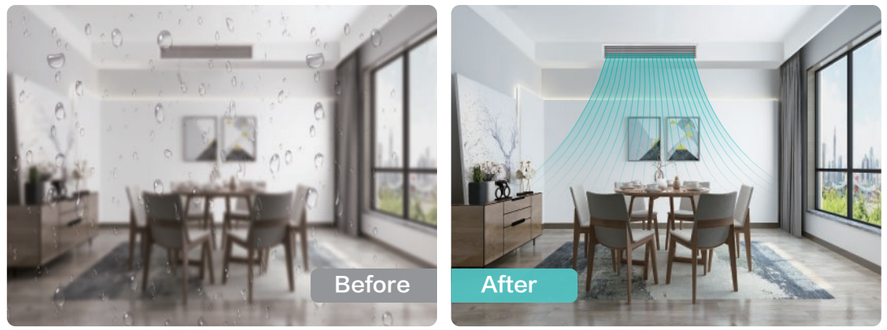
Precise indoor temperature according to:

1. Air return temperature sensor
2. Temperature sensor on wired remote controller
3. Based on the average value
   (Suitable for irregularly shaped room)



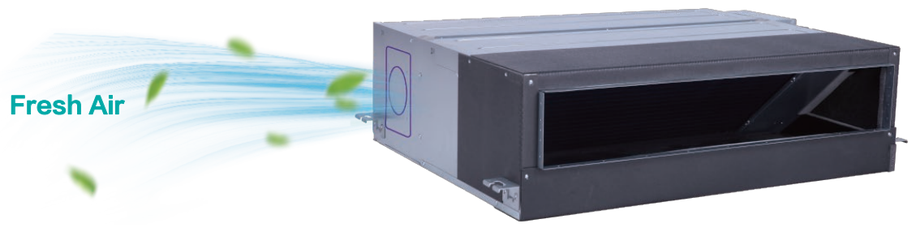
Humidity Sensor (Optional)

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%.



Fresh Air Intake

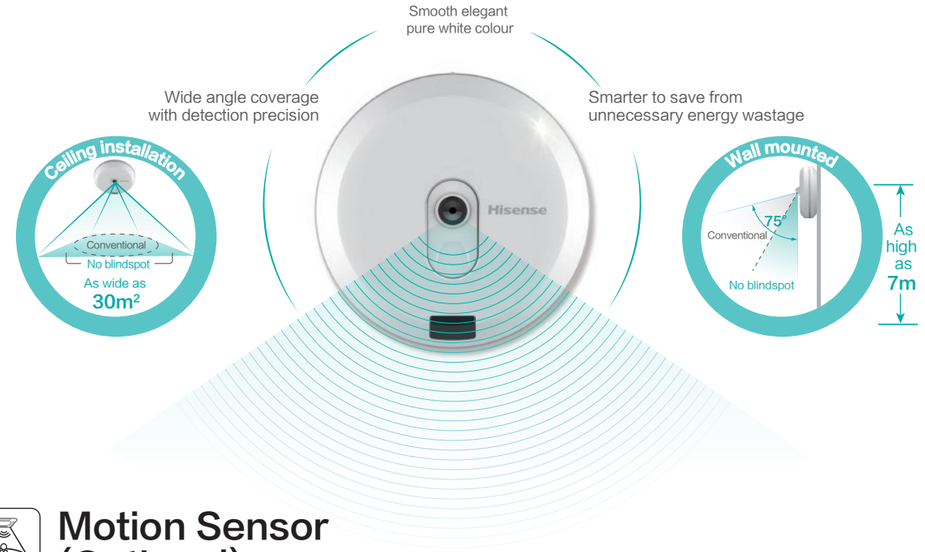
Hisense VRF indoor units are infused with a fresh air duct opening for 10% free fresh air introductory directly from outdoor air, reducing the need of fresh air systems for medium to small spaces. These indoor units include 4−way cassette, mini 4−way cassette, 2−way cassette, 1−way cassette, AC/DC low height ceiling ducted, low/high static pressure ceiling ducted and console.



Hi−Motion (Optional)

Hi−Motion works as an independent human sensor and can be installed separately from indoor unit. It can detect the human activities indoors to provide comfort and energy savings.

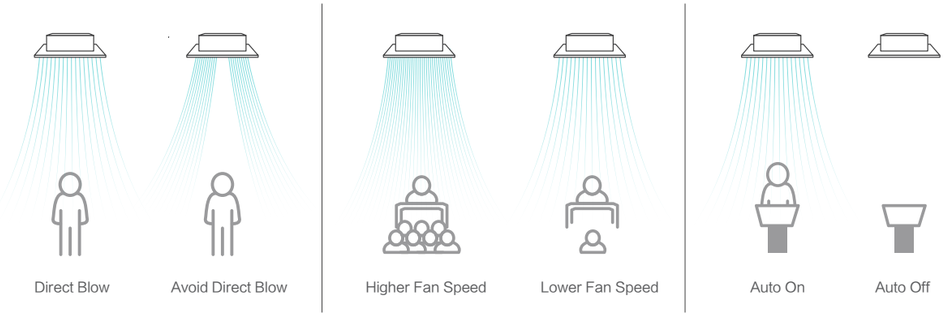
1) Automatically stops the unit when no one is in the room in order to realize energy saving.
2) Adjusting the setting temperature and air flow according to the actual human activity.



Motion Sensor (Optional)

Motion Sensor, assembled in the panel of 4−Way Cassette and Mini 4−Way Cassette, can provide a more com−fortable environment, and achieve efficient and energy−saving operation of the unit at the same time.

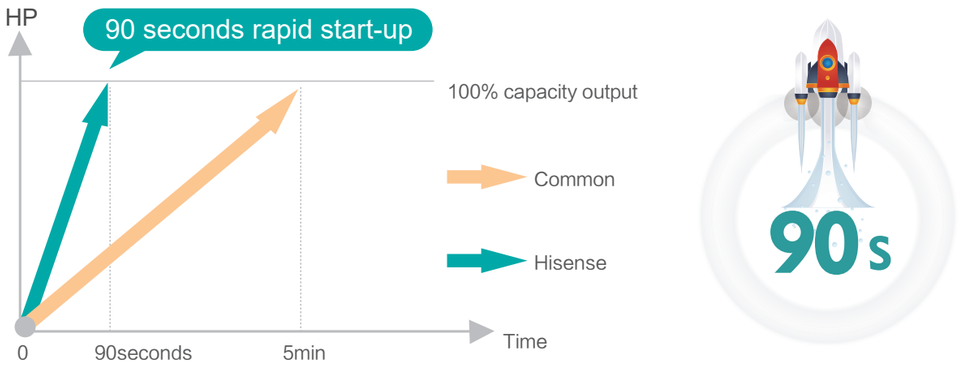
1) With the sensor, indoor unit can ON or OFF automatically when people enter or leave the room.
2) The people location can be detected by the sensor automatically, and the air flow direction can be set to blow directly or to avoid blowing at people as they like.
3) The setting temperature can be changed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



ENHANCED COMFORT

Rapid Cooling&Heating Start-up

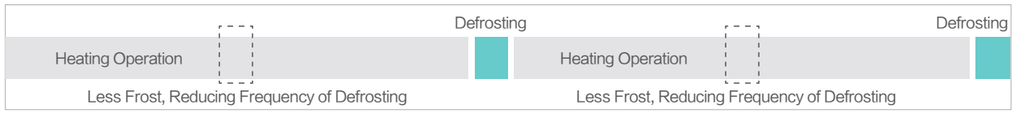
Combing the soft start of DC inverter compressor and rapid start of fixed speed compressor, the system can achieve 100% capacity output instantly to meet the air conditioning demand.



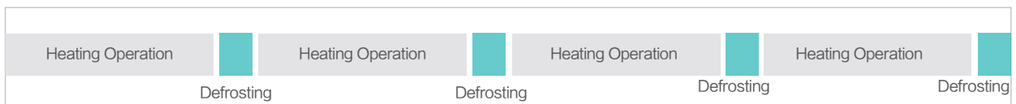
Intelligent Defrost

Hisense VRF owns its exclusive intelligent defrost technology, which adopts 3 sensors to compresively monitor the system state and determine the prefect time to defrost. It will reduce the frequency of defrosting and give more comfortable enivornment for customers.

Hisense's Optimal Defrosting Mode



Convenient Defrosting Mode



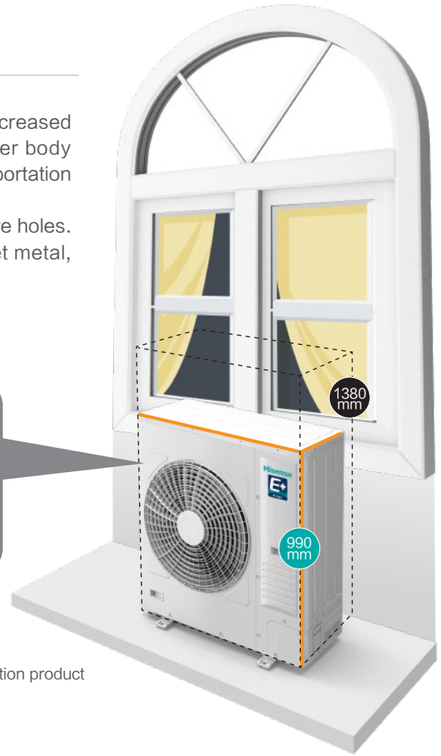
Convenient defrost mode only refers to time, ambient temperature and temperature detected on the heat exchanger, while Hisense adopts pressure defrost mode together with all above factors.

ENHANCED COMFORT

Compact Size and Light Weight

The body of outdoor unit is more compact, which offers an increased degree of freedom of installation. Also thanks to its smaller body frame, a lot of unnecessary weight is removed, making transportation and installation more convenient.
What's more, the exterior screws are designed in counterbore holes. The screw heads are on the same flat as the exterior sheet metal, which is more beautiful and fashionable.

Counterbore Hole Design

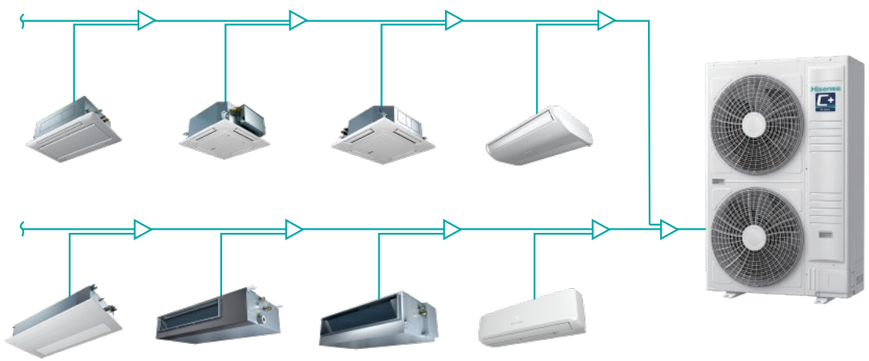


*Take the AVW-54HJFHH1 as an example, compared with the last generation product with the same capacity.

Large Number of Connectable IDUs

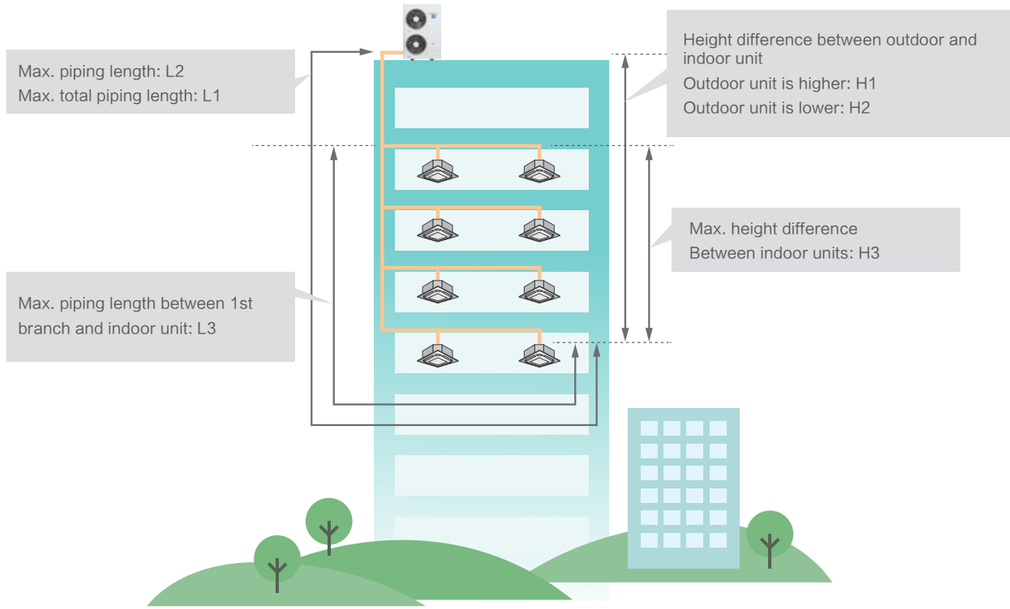
Various kinds of indoor units can be chosen to cater to interior decoration. Moreover max. 19 indoor units can be connected to one outdoor unit, achieving more flexible design and reducing project cost.

* The quantity of connectable IDUs of each outdoor unit, please refer to the specification part.



Excellent Piping Length

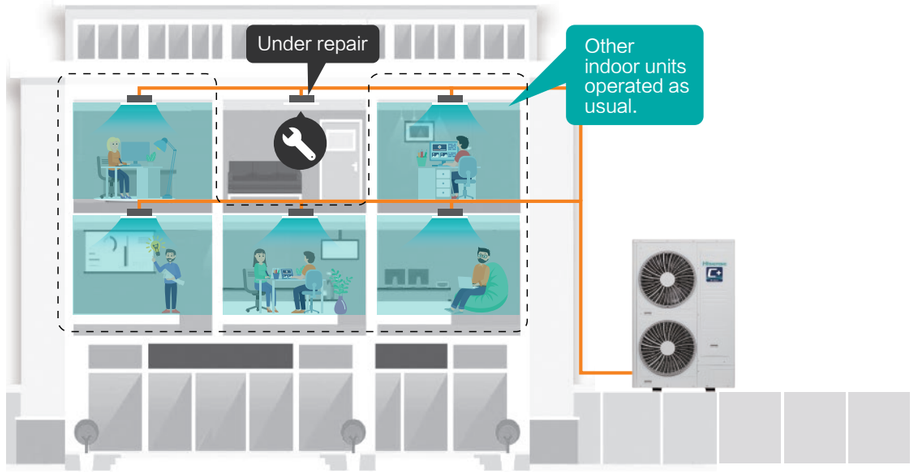
Increased piping length allows for flexible design and installation. Hisense inverter technology and two-level cooling technology allow longer piping length and outstanding height differences. The air-conditioning system can be implemented more flexibly.



Series		Hi-Smart E+	Hi-Smart L+	Hi-Smart C+
Picture				
Total piping length L1		135m	150m	300m
Max. piping length L2		70m	100m	150m
Max.length between the first branch pipe to the farthest indoor unit L3		40m	40m	40m
Height difference between ODU and IDU	ODU is higher H1	40m	50m	50m
	IDU is higher H2	30m	40m	40m
Height difference between IDUs H3		15m	15m	15m

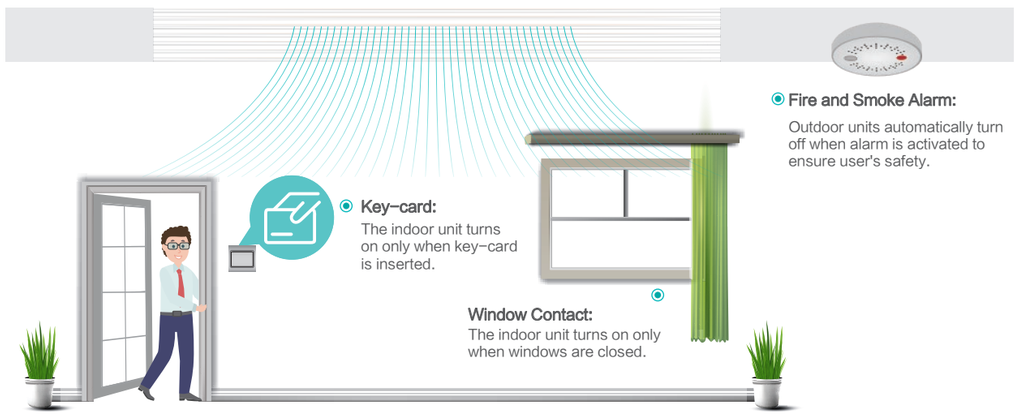
Independent Maintenance of Indoor Units

To remain the whole system operating continuously even if an indoor unit goes breakdown, the system is capable to isolate the malfunction indoor unit from the others while conducting restoration and maintaining continuous operation of other units simultaneously.



Dry Contact Interface

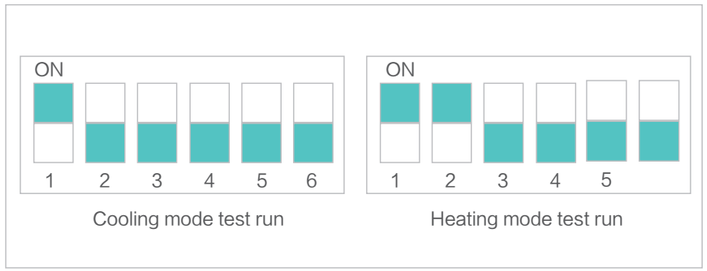
External input & output ports are reserved in indoor units and outdoor units for a wider choice of applications to control the air conditioning system. The key-card control, window contact control and any other third-party sensors or devices control can be available through setting in the indoor units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



One-touch Test Run

Test run is one of the essential part in testing and commissioning to make sure the air-conditioning system works steadily and safely before handing over or soft opening. To make test run as simple as possible, it's possible to conduct test runs with just a button in the wired controllers indoors or in the PCB of outdoor units.

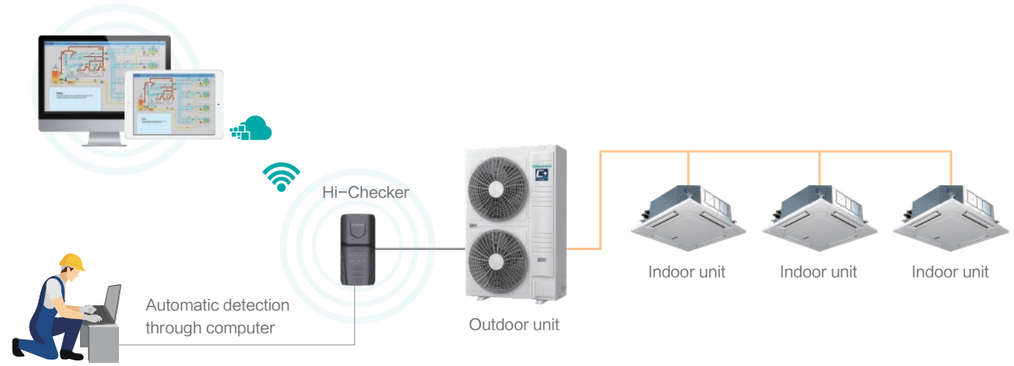
Test run through the wired controller



Test run through the ODU PCB

Hi-Checker

Hi-Checker is an intelligent service tool for system diagnosis, which can enable easy access to service parameters. Detailed operation data and recent error history can be checked and analyzed by using Hi-Checker. Moreover, remote monitoring and diagnosis is available thanks to the cloud-based technology.

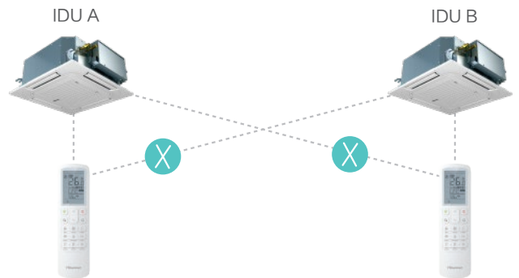


Fast Start
No Need Preheating for ODU

When the ambient temperature is above −10℃, the system can start without preheating, achieving quick cool and heat.

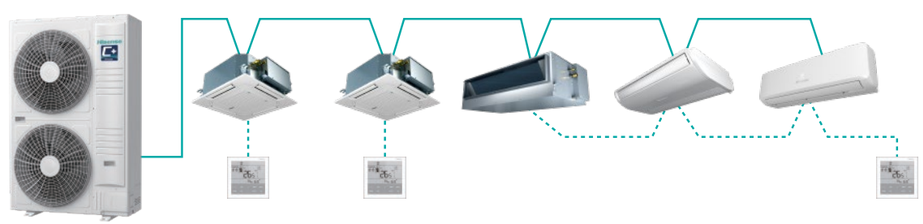
No Adjacent Interference

The control signal from one wireless controller is easy to interfere the adjacent indoor units, causing wrong directives. Hisense VRF has optimized the control logic and been featured with identifying function of indoor units, ensuring correct control of each indoor unit.



H-Net Communication without Polarity

Hisense VRF adopts no polarity twisted pair lines to avoid incorrect connections. In addition, saving time for installation.



Outdoor Unit Specifications

Capacity (HP)			4.0	5.0	6.0
Model			AVW-41HJFHH1	AVW-48HJFHH1	AVW-54HJFHH1
Power Supply			AC 1Φ, 220-240V/50/60Hz		
Cooling	Capacity	kW	12.1	14.0	15.5
		Btu/h	41500	48000	53000
	Power Input	kW	2.80	3.45	4.21
	EER	W/W	4.32	4.05	3.68
	SEER	—	8.10	7.70	7.00
Heating	Capacity	kW	14.0	16.0	18.0
		Btu/h	48000	54500	61500
	Power Input	kW	3.18	4.00	4.50
	COP	W/W	4.40	4.00	4.00
	SCOP	—	4.75	4.60	4.45
Ventilation	Air Flow Rate	m³/min	71	71	71
Sound Pressure Level	Cooling/Heating	dB(A)	53/54	54/55	54/55
Weight	Net	kg	88	89	90
	Gross	kg	103	104	105
Outer Dimensions	Height	mm	990	990	990
	Width	mm	950	950	950
	Depth	mm	320	320	320
Packing Dimensions	Height	mm	1126	1126	1126
	Width	mm	1070	1070	1070
	Depth	mm	470	470	470
Cabinet Color		—	Grayish White		
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88
		in.	5/8	5/8	5/8
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53
		in.	3/8	3/8	3/8
Refrigerant	Type	—	R410A		
	Before Shipment	kg	4.0	4.0	4.0
Connectable Indoor Units	Max. Qty.	pc	8	9	10
	Connection Ratio	%	50-150	50-150	50-150
Piping Design	Max. Piping Length	m	70	70	70
	Total Piping Length	m	135	135	135
	Height Difference Between ODU and IDU	m	40	40	40
		m	30	30	30
	Height Difference Between IDUs	m	15	15	15
Operation Range	Cooling	DB(℃)	(-10*) -5 ~ 48		
	Heating	DB/WB(℃)	-20/-20.5 ~ 26/15.5		

NOTES:

1. The rated cooling and heating capacity are tested in the following conditions:
Cooling Operation Conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe lift: 0m
Heating Operation Conditions: indoor air inlet temperature: 20℃ DB, outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe lift: 0m
2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be taken into consideration at the scene.
Measurement point: 1m from the service cover surface and 1.5m from floor level.
3. *1 When the temperature is between -10℃ and -5℃, the cooling operation is under interval operation.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Outdoor Unit Specifications

Capacity (HP)			4.0	5.0	6.0	4.0	5.0	6.0
Model			AVW-41HJFHH2	AVW-48HJFHH2	AVW-54HJFHH2	AVW-41HKFHH2	AVW-48HKFHH2	AVW-54HKFHH2
Power Supply			AC 1Φ, 220-240V/50/60Hz			AC 3Φ, 380-415V/50/60Hz		
Cooling	Capacity	kW	12.1	14.0	15.5	12.1	14.0	15.5
		Btu/h	41500	48000	53000	41500	48000	53000
	Power Input	kW	2.79	3.43	4.18	2.79	3.43	4.18
	EER	W/W	4.33	4.08	3.71	4.33	4.08	3.71
	SEER	—	8.20	8.10	8.00	8.20	8.10	8.00
Heating	Capacity	kW	14.0	16.0	18.0	14.0	16.0	18.0
		Btu/h	48000	54500	61500	48000	54500	61500
	Power Input	kW	3.08	3.71	4.47	3.08	3.71	4.47
	COP	W/W	4.55	4.31	4.03	4.55	4.31	4.03
	SCOP	—	4.85	4.70	4.55	4.85	4.70	4.55
Ventilation	Air Flow Rate	m³/min	90	90	100	120	120	127
Sound Pressure Level	Cooling/Heating	dB(A)	52/55	52/55	53/56	52/55	52/55	53/56
Weight	Net	kg	106	107	108	112	113	114
	Gross	kg	118	119	120	123	124	125
Outer Dimensions	Height	mm	1380	1380	1380	1380	1380	1380
	Width	mm	950	950	950	950	950	950
	Depth	mm	370	370	370	370	370	370
Packing Dimensions	Height	mm	1531	1531	1531	1531	1531	1531
	Width	mm	1070	1070	1070	1070	1070	1070
	Depth	mm	515	515	515	515	515	515
Cabinet Color		—	Grayish White					
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		in.	5/8	5/8	5/8	5/8	5/8	5/8
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		in.	3/8	3/8	3/8	3/8	3/8	3/8
Refrigerant	Type	—	R410A					
	Before Shipment	kg	3.8	3.8	4.1	3.8	3.8	4.1
Connectable Indoor Units	Max. Qty.	pc	9	11	12	9	11	12
	Connection Ratio	%	50-150	50-150	50-150	50-150	50-150	50-150
Piping Design	Max. Piping Length	m	100	100	100	100	100	100
	Total Piping Length	m	150	150	150	150	150	150
	Height Difference Between ODU and IDU	m	50	50	50	50	50	50
		m	40	40	40	40	40	40
	Height Difference Between IDUs	m	15	15	15	15	15	15
Operation Range	Cooling	DB(℃)	(-10*) -5 ~ 48					
	Heating	DB/WB(℃)	-20/-20.5 ~ 26/15.5					

NOTES:

1. The rated cooling and heating capacity are tested in the following conditions:
Cooling Operation Conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe lift: 0m
Heating Operation Conditions: indoor air inlet temperature: 20℃ DB, outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe lift: 0m
2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be taken into consideration at the scene.
Measurement point: 1m from the service cover surface and 1.5m from floor level.
3. *1 When the temperature is between -10℃ and -5℃, the cooling operation is under interval operation.

Outdoor Unit Specifications

Capacity (HP)			8.0	10.0	12.0
Model			AVW-76HKFHH2	AVW-96HKFHH2	AVW-114HKFHH2
Power Supply			AC 3Φ, 380~415V/50/60Hz		
Cooling	Capacity	kW	22.4	28.0	33.5
		Btu/h	76400	95500	114300
	Power Input	kW	6.22	8.12	13.40
	EER	W/W	3.60	3.45	2.50
	SEER	—	7.00	7.80	7.55
Heating	Capacity	kW	25.0	31.5	37.5
		Btu/h	85300	107500	128000
	Power Input	kW	5.81	7.59	10.08
	COP	W/W	4.30	4.15	3.72
	SCOP	—	4.50	4.50	4.30
Ventilation	Air Flow Rate	m³/min	150	163	163
Sound Pressure Level	Cooling/Heating	dB(A)	55/58	56/59	56/59
Weight	Net	kg	145	157	158
	Gross	kg	161	174	175
Outer Dimensions	Height	mm	1650	1650	1650
	Width	mm	1100	1100	1100
	Depth	mm	390	390	390
Packing Dimensions	Height	mm	1806	1806	1806
	Width	mm	1185	1185	1185
	Depth	mm	530	530	530
Cabinet Color		—	Grayish White		
Ref. Piping	Gas	mm	Φ22.2	Φ25.4	Φ25.4
		in.	7/8	1/1	1/1
	Liquid	mm	Φ12.7	Φ12.7	Φ12.7
		in.	1/2	1/2	1/2
Refrigerant	Type	—	R410A		
	Before Shipment	kg	5.5	6.5	6.5
Connectable Indoor Units	Max. Qty.	pc	15	18	19
	Connection Ratio	%	50~150	50~150	50~150
Piping Design	Max. Piping Length	m	150	150	150
	Total Piping Length	m	300	300	300
	Height Difference Between ODU and IDU	m	50	50	50
		m	40	40	40
	Height Difference Between IDUs	m	15	15	15
Operation Range	Cooling	DB(℃)	(−10*) −5 ~ 48		
	Heating	DB/WB(℃)	−20/−20.5 ~ 26/15.5		

NOTES:

1. The rated cooling and heating capacity are tested in the following conditions:
Cooling Operation Conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe lift: 0m
Heating Operation Conditions: indoor air inlet temperature: 20℃ DB, outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe lift: 0m
2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be taken into consideration at the scene.
Measurement point: 1m from the service cover surface and 1.5m from floor level.
3. *1 When the temperature is between −10℃ and −5℃, the cooling operation is under interval operation.

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 (High Static Pressure)			●	●	●		●			●	●	●	●	●	●	●	●	●	●
Ceiling Ducted Type (Low Static Pressure)			●	●	●		●			●	●	●	●	●	●	●	●	●	●
Ceiling Ducted Type (DC High Static Pressure)																		●	●
Wall Mounted Type		●	●	●	●		●		●			●	● (28)						
Ceiling & Floor Type								●	●		●	●	●	●	●	●			
Floor Concealed Type				●		●			●			●							

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

Functions & Accessories

Installation & Maintenance

1200mm condensate pump

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

Self-Diagnosis

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

Compact size

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

Easy cleaning

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

Large capacity range

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

Special Function

Auto restart

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

Low temperature cooling

Setting temperature of indoor units is widen with selectable temperature to as low as 16℃.

Wireless receiver

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

Humidity sensor (optional)

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

Hi-Motion (optional)

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

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℃, which can ensure that the actual outlet temperature will never be lower than the set value.

Basic Function

Remote control

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

Silent operation

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

Adjustable louver's position

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

3D Air-flow Panel

Selectable wind settings from normal, 3D and super long distance mode are available thanks to the 3D air-flow panel.

Six levels of fan speed

Six levels of fan speed are available.

Auto fan speed

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

Air Quality

Fresh air introduction

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

Standard filter included

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

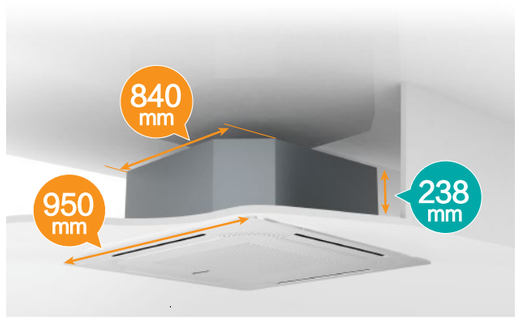
AirPure (optional)

Achieving air purification by equipping with AirPure kit.

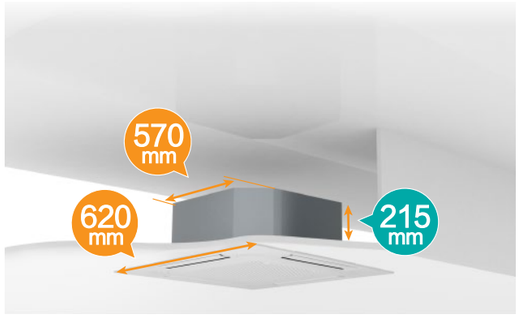
4-Way Cassette Type
Mini 4-Way Cassette Type

Compact and Classy Design

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



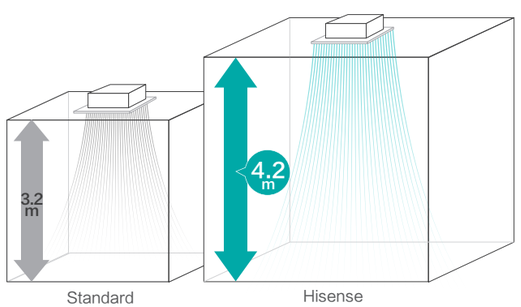
4-Way Cassette Type



Mini 4-way Cassette Type

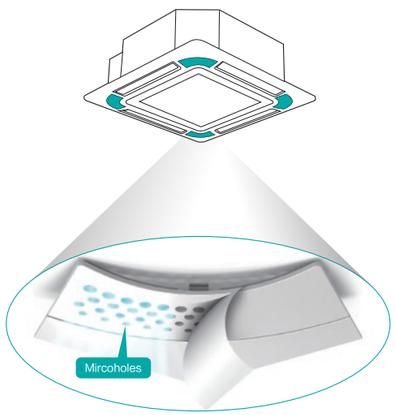
Higher Installation

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



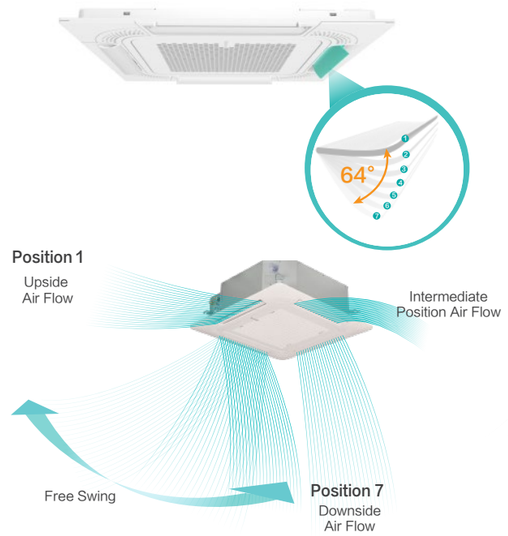
Breeze Mode

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.



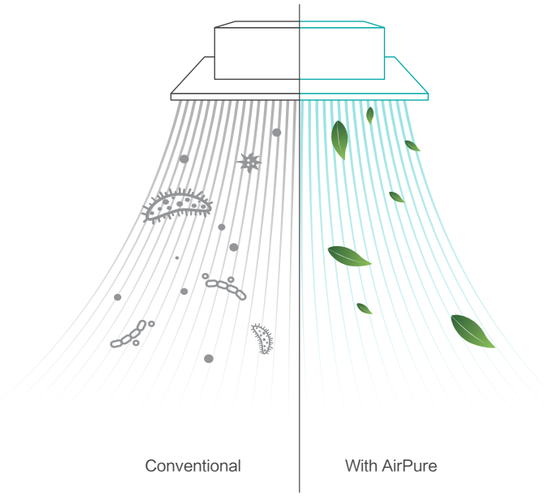
Individual Louvers Control

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



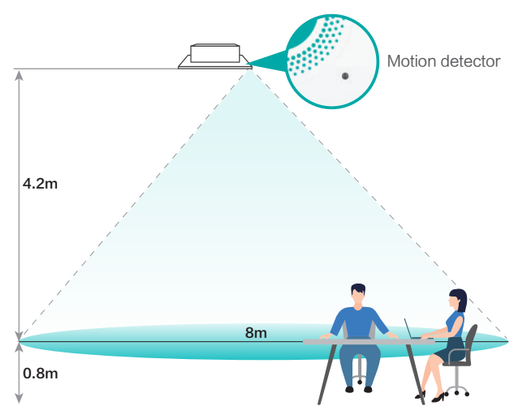
AirPure

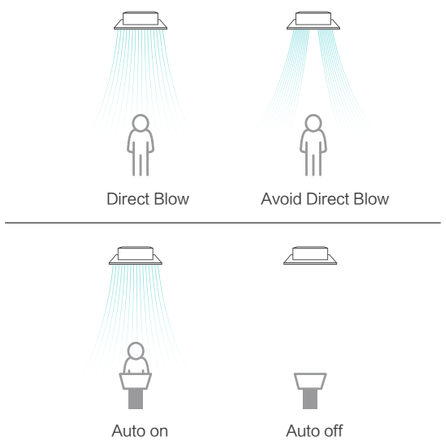
AirPure is a healthy alternative accessory to the normal conventional cassette unit to improve overall air quality. Airpure helps in improving skin condition, effective deodorizer and deactivating bacterias, virus and allergens floating in the air.



Motion Sensor

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





4-Way Cassette Type

Model			AVBC-09 HJFKA	AVBC-12 HJFKA	AVBC-15 HJFKA	AVBC-19 HJFKA	AVBC-22 HJFKA	AVBC-24 HJFKA	AVBC-27 HJFKA	AVBC-30 HJFKA	AVBC-38 HJFKA	AVBC-48 HJFKA	AVBC-54 HJFKA
Power Supply			AC 1Φ, 220~240V/50Hz/60Hz										
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0
		Btu/h	9,600	12,300	15,400	19,100	21,500	24,200	27,300	30,700	38,200	47,800	54,600
	Heating	kW	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0
		Btu/h	10,900	13,700	17,100	21,500	24,200	27,300	30,700	34,100	42,700	54,600	61,400
Power Input	Cooling	W	14	24	24	34	54	64	54	54	124	124	124
	Heating	W	14	24	24	34	54	64	54	54	124	124	124
Sound Pressure		dB(A)	30/28/28/ 27/26/26	32/29/29/ 28/27/26	33/31/29/ 29/27/26	34/31/30/ 28/28/26	36/33/32/ 31/29/28	36/33/32/ 31/29/28	37/36/35/ 33/31/30	37/36/35/ 33/31/30	42/40/38/ 36/34/33	46/44/40/ 38/36/34	46/44/41/ 40/38/36
Airflow Rate		m³/min	15.0/13.4/ 12.0/10.8/ 10.0/8.8	17.0/14.0/ 12.8/11.8/ 10.8/9.1	21.0/16.0/ 14.9/13.6/ 12.7/11.2	22.0/17.5/ 15.9/15.5/ 13.6/12.5	26.0/20.0/ 18.3/17.0/ 15.1/13.0	27.0/21.0/ 19.1/18.0/ 16.3/14.7	27.0/22.0/ 20.3/18.7/ 16.8/15.4	27.0/23.0/ 20.7/19.6/ 17.7/16.1	37.0/30.0/ 27.4/24.8/ 22.4/19.6	37.0/33.5/ 29.6/27.2/ 24.5/22.4	37.0/34.0/ 30.7/28.9/ 25.6/23.8
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)										
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		inch	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm	O.D.32										
Weight	Net Weight	kg	20	20	21	21	23	23	26	26	26	26	26
	Gross Weight	kg	24	24	25	25	27	27	31	31	31	31	31
Dimensions	External	H mm	238	238	238	238	238	238	288	288	288	288	288
		W mm	840	840	840	840	840	840	840	840	840	840	840
		D mm	840	840	840	840	840	840	840	840	840	840	840
	Packaging	H mm	292	292	292	292	292	292	342	342	342	342	342
		W mm	945	945	945	945	945	945	945	945	945	945	945
		D mm	945	945	945	945	945	945	945	945	945	945	945
Decoration Panel	Model	–	HP-G-NK	HP-G-NK	HP-G-NK	HP-G-NK	HP-G-NK	HP-G-NK	HP-G-NK	HP-G-NK	HP-G-NK	HP-G-NK	HP-G-NK
	Panel Colour	–	Neutral White										
	Body Dimensions	H mm	47	47	47	47	47	47	47	47	47	47	47
		W mm	950	950	950	950	950	950	950	950	950	950	950
		D mm	950	950	950	950	950	950	950	950	950	950	950
	Packaging Dimensions	H mm	105	105	105	105	105	105	105	105	105	105	105
		W mm	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014
		D mm	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014
	Net Weight	kg	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	Gross Weight	kg	8	8	8	8	8	8	8	8	8	8	8

NOTES:

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

Mini 4-Way Cassette Type

Model			AVC-05HJFA	AVC-07HJFA	AVC-09HJFA	AVC-12HJFA	AVC-15HJFA	AVC-17HJFA	AVC-19HJFA
Power Supply			AC 1Φ, 220~240V/50Hz/60Hz						
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.0	5.6
		Btu/h	5,100	7,480	9,520	12,240	15,300	17,000	19,040
	Heating	kW	2.0	2.5	3.3	4.2	5.0	5.6	6.3
		Btu/h	6,800	8,500	11,220	14,280	17,000	19,040	21,420
Power Input	Cooling	W	14	14	14	16	22	30	40
	Heating	W	14	14	14	16	22	30	40
Sound Pressure		dB(A)	30/29/28/26	30/29/28/26	32/30/28/26	34/32/29/26	38/36/31/28	42/39/36/31	45/42/38/34
Airflow Rate		m³/min	7.2/6.5/6.2/5.6	7.2/6.5/6.2/5.6	7.8/7.2/6.5/5.8	8.2/7.2/6.5/5.8	9.3/8.7/7.1/6.7	11.0/9.5/8.7/7.1	12.5/10.8/9.3/8.0
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)						
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Condensate Drain	mm	O.D.32						
Weight	Net Weight	kg	14.5	14.5	14.8	14.8	15.8	15.8	15.8
	Gross Weight	kg	17.3	17.3	17.6	17.6	18.6	18.6	18.6
Dimensions	External	H mm	215	215	215	215	215	215	215
		W mm	570	570	570	570	570	570	570
		D mm	570	570	570	570	570	570	570
	Packaging	H mm	292	292	292	292	292	292	292
		W mm	668	668	668	668	668	668	668
		D mm	730	730	730	730	730	730	730
Decoration Panel	Model	–	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK
	Panel Colour	–	Neutral White						
	Body Dimensions	H mm	37	37	37	37	37	37	37
		W mm	620	620	620	620	620	620	620
		D mm	620	620	620	620	620	620	620
	Packaging Dimensions	H mm	115	115	115	115	115	115	115
		W mm	680	680	680	680	680	680	680
		D mm	690	690	690	690	690	690	690
	Net Weight	kg	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Gross Weight	kg	4.5	4.5	4.5	4.5	4.5	4.5	4.5

NOTES:

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

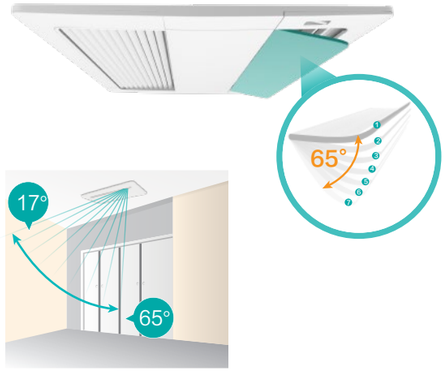
1-Way Cassette Type

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.

Even Air Supply

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



Space Saving

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

Easier Maintain

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

1-Way Cassette Type

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	4.5	5.6	7.1
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	Heating	kW	2.5	3.2	4.0	5.0	6.3	8.0
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
Power Input	Cooling	W	14	14	24	34	34	74
	Heating	W	14	24	34	44	44	94
Sound Pressure		dB(A)	33/32/31/30/29/28	35/34/32/31/29/28	40/36/35/33/30/29	40/36/35/33/30/29	41/39/36/35/33/31	48/46/43/40/37/33
Airflow Rate		m³/min	6.2/5.9/5.6/ 5.1/4.8/4.6	6.6/6.2/5.6/ 5.1/4.8/4.6	8.3/7.3/6.8/ 6.2/5.6/5.1	8.3/7.3/6.8/ 6.2/5.6/5.1	12.1/9.9/8.8/ 8.2/7.8/6.6	15.6/12.6/11.2/ 9.9/8.4/7.1
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	Φ15.88	Φ15.88
		inch	1/2	1/2	1/2	1/2	5/8	5/8
	Condensate Drain	mm	I.D. 32					
Weight	Net Weight	kg	19	19	20	20	24	24
	Gross Weight	kg	23	23	24	24	29	29
Dimensions	External	H mm	192	192	192	192	192	192
		W mm	910	910	910	910	1180	1180
		D mm	470	470	470	470	470	470
	Packaging	H mm	268	268	268	268	268	268
		W mm	1136	1136	1136	1136	1406	1406
		D mm	574	574	574	574	574	574
Decoration Panel	Model	-	HP-D-NA	HP-D-NA	HP-D-NA	HP-D-NA	HP-E-NA	HP-E-NA
	Panel Colour	-	Neutral White					
	Body Dimensions	H mm	55	55	55	55	55	55
		W mm	1100	1100	1100	1100	1370	1370
		D mm	550	550	550	550	550	550
	Packaging Dimensions	H mm	130	130	130	130	130	130
		W mm	1160	1160	1160	1160	1430	1430
		D mm	610	610	610	610	610	610
	Net Weight	kg	5	5	5	5	6	6
	Gross Weight	kg	8	8	8	8	10	10

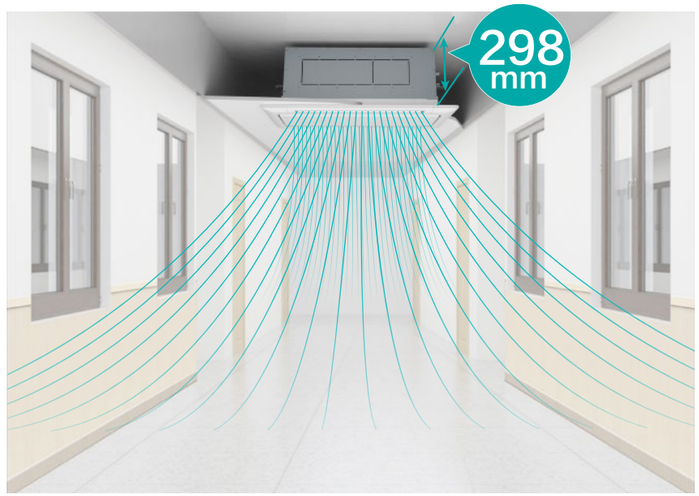
NOTES:

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

2-Way Cassette Type

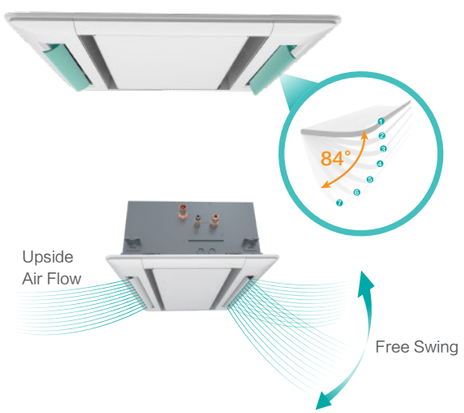
Compact and Classy Design

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



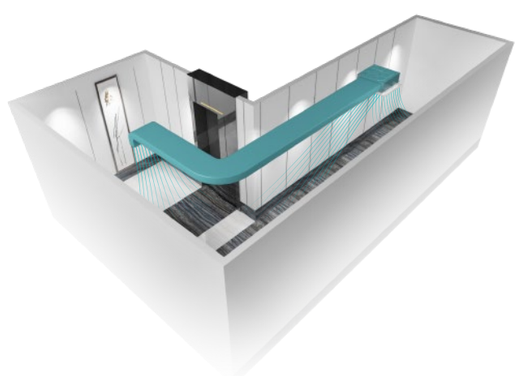
Independent Louvers Control

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



Branch Discharge Option

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



2-Way Cassette Type

Model			AVL-07 UXJSGA	AVL-09 UXJSGA	AVL-12 UXJSGA	AVL-14 UXJSGA	AVL-18 UXJSGA	AVL-24 UXJSGA	AVL-27 UXJSGA	AVL-30 UXJSGA	AVL-38 UXJSHA	AVL-48 UXJSHA	AVL-54 UXJSHA
Power Supply			AC 1Φ, 220~240V/50Hz/60Hz										
Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0
		Btu/h	7,500	9,600	12,300	14,700	19,100	24,200	28,700	30,700	38,200	47,800	54,600
	Heating	kW	2.8	3.3	4.0	4.9	6.5	8.0	9.0	10.0	13.0	16.0	18.0
		Btu/h	9,600	11,300	13,600	16,700	22,200	27,300	30,700	34,100	44,400	54,600	61,400
Power Input	Cooling	W	14	14	14	24	34	44	64	74	84	104	114
	Heating	W	14	14	14	24	34	44	64	74	84	104	114
Sound Pressure		dB(A)	32/30/ 29/27	33/30/ 29/28	34/31/ 30/28	40/37/ 34/32	42/39/ 36/33	45/42/ 40/36	47/44/ 40/36	49/46/ 42/37	46/44/ 40/38	48/45/ 42/38	49/46/ 43/40
Airflow Rate		m³/min	10.0/8.5/ 7.2/6.0	11.0/9.4/ 8.2/6.6	12.0/10.5/ 8.9/7.5	15.0/13.2/ 11.5/9.9	17.0/14.9/ 13.0/11.2	19.0/16.4/ 14.3/12.3	21.0/18.4/ 15.6/12.6	22.0/19.3/ 16.3/13.1	30.0/26.4/ 23.1/19.8	35.0/30.8/ 26.9/21.1	37.0/32.5/ 28.4/24.1
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	I.D. 32										
Weight	Net Weight	kg	22	22	22	24	24	24	24	24	39	39	39
	Gross Weight	kg	28	28	28	30	30	30	30	30	47	47	47
Dimensions	External	H mm	298	298	298	298	298	298	298	298	298	298	298
		W mm	860	860	860	860	860	860	860	860	1420	1420	1420
		D mm	630	630	630	630	630	630	630	630	630	630	630
	Packaging	H mm	350	350	350	350	350	350	350	350	350	350	350
		W mm	1070	1070	1070	1070	1070	1070	1070	1070	1630	1630	1630
		D mm	710	710	710	710	710	710	710	710	710	710	710
Decoration Panel	Model	-	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-C-NA	HP-F-NA	HP-F-NA	HP-F-NA
	Panel Colour	-	Neutral White										
	Body Dimensions	H mm	30	30	30	30	30	30	30	30	30	30	30
		W mm	1100	1100	1100	1100	1100	1100	1100	1100	1660	1660	1660
		D mm	710	710	710	710	710	710	710	710	710	710	710
	Packaging Dimensions	H mm	160	160	160	160	160	160	160	160	160	160	160
		W mm	1170	1170	1170	1170	1170	1170	1170	1170	1710	1710	1710
		D mm	740	740	740	740	740	740	740	740	740	740	740
	Net Weight	kg	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.5	10.5	10.5
	Gross Weight	kg	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	17.8	17.8	17.8

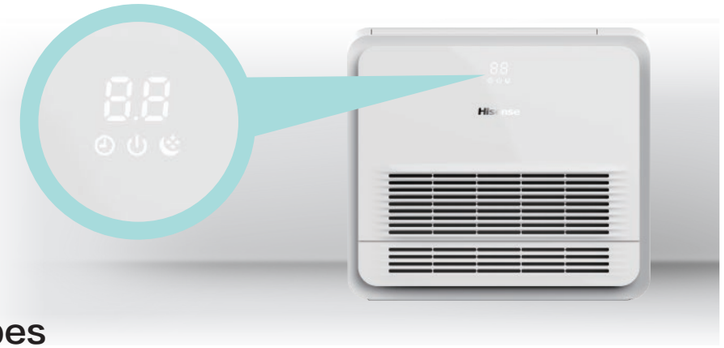
NOTES:

1. The nominal cooling capacity is based on the following conditions:
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ 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 Design

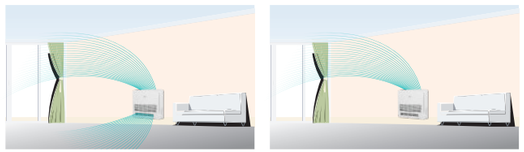
With smooth white cover, LED shown and temperature display, the console unit is an super stylish air-conditioning, which is suitable for the residential or commercial applications which need an unit installed on or close to the floor.



Multiple Blowing Types

Cooling Mode

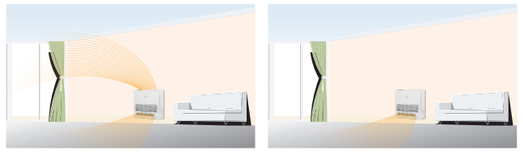
The unit adopts the stereo cooling mode that can reach the setting temperature rapidly.



Note: During cooling mode, the lower air louver will close automatically after the indoor unit operates in low fan speed mode for an hour. Otherwise it will keep open.

Heating Mode

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



Note: In the Eco mode, when the indoor return air temp. is close to the setting temp., the upper air deflector is automatically closed, and the lower air outlet mode is activated.

Flexible Installation Options

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

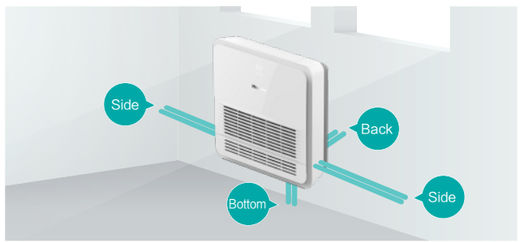
Standing on the floor

Hanging on the wall

Surface mounted　Embedded mounted　Concealed mounted

Flexible Piping Connection

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



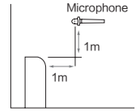
Console Type

Model			AVK-05HJFCAA	AVK-07HJFCAA	AVK-09HJFCAA	AVK-12HJFCAA	AVK-15HJFCAA	AVK-17HJFCAA
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz					
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.0
		Btu/h	5,100	7,500	9,600	12,300	15,300	17,000
	Heating	kW	2.0	2.5	3.3	4.2	5.0	5.6
		Btu/h	6,800	8,500	11,200	14,300	17,000	19,100
Power Input	Cooling	W	10	11	12	14	18	23
	Heating	W	10	11	12	14	18	23
Sound Pressure		dB(A)	32/30/29/28/26/24	34/32/31/29/27/26	36/35/32/31/29/27	39/36/34/31/29/27	41/39/37/35/33/32	44/43/41/39/37/36
Airflow Rate		m³/min	6.0/5.7/5.3/ 5.1/4.7/4.5	7.4/7.0/6.4/ 6.0/5.6/5.3	8.0/7.4/7.0/ 6.4/6.0/5.6	8.2/7.6/6.8/ 6.2/5.7/5.3	9.0/8.5/7.8/ 7.2/6.6/6.4	10.1/9.7/9.0/ 8.5/7.9/7.3
Panel Colour		-	Pure White	Pure White	Pure White	Pure White	Pure White	Pure White
Piping	Connection Type	-	Flare-nut Connection(with Flare Nuts)					
	Liquid	mm	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
	Gas	mm	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
	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	21.1	21.1	21.1	22.4	22.4	22.4
Dimensions	External	H mm	630	630	630	630	630	630
		W mm	700	700	700	700	700	700
		D mm	225	225	225	225	225	225
	Packaging	H mm	725	725	725	725	725	725
		W mm	790	790	790	790	790	790
		D mm	315	315	315	315	315	315

NOTES:

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

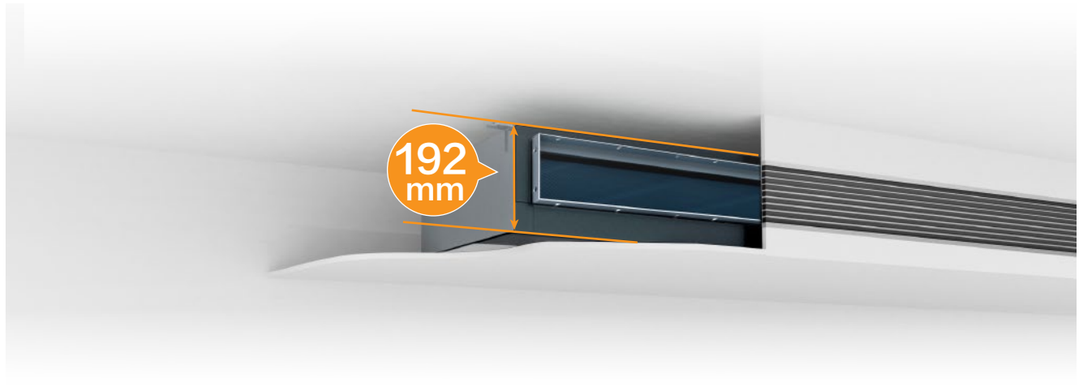
2. The sound pressure level is based on following conditions:
   It is measured in anechoic room. Operation noise differs with operation and ambient conditions.
   Location of Microphone:



Ceiling Ducted Type (AC/DC Low Height)

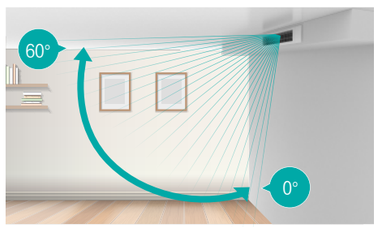
Space Saving

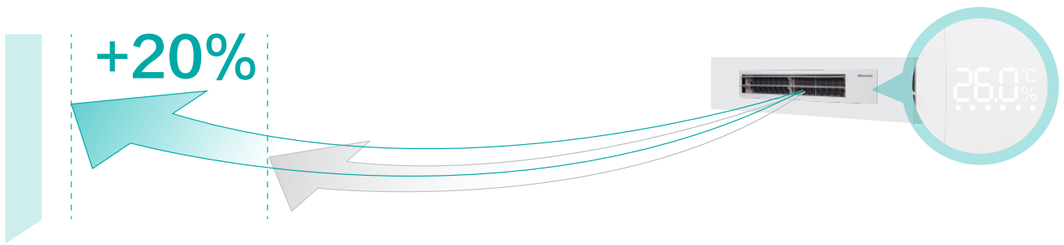
Concealed AC/DC Low Height Ducted unit is as slim as 192mm, fitting into the narrowest ceiling spaces. Save ceiling spaces for higher room height without compromising user's comfort and satisfaction.



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

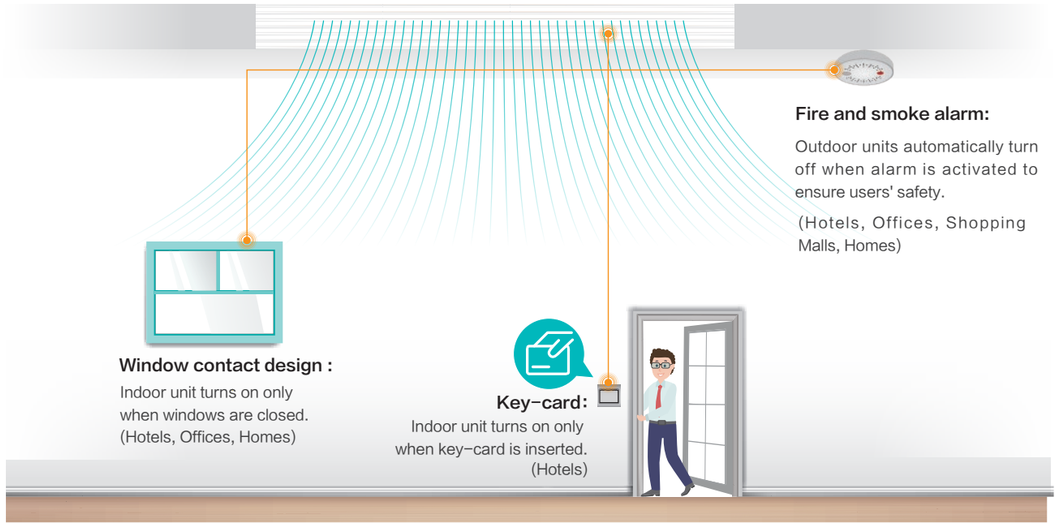
To prevent the human height area of the room cools or warms to user's ideal temperature setting. Two Temperature Sensor Control Technology is integrated into the unit whereby the controller, and return section consist of built in temperature sensors to send real-time signals to the unit for a more precise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



Fire and smoke alarm:

Outdoor units automatically turn off when alarm is activated to ensure users' safety.

(Hotels, Offices, Shopping Malls, Homes)

Window contact design :

Indoor unit turns on only when windows are closed.
(Hotels, Offices, Homes)

Key-card:

Indoor unit turns on only when key-card is inserted.
(Hotels)

INDOOR UNIT

Ceiling Ducted Type(AC Low Height)

Model			AVE-05 HCFRL	AVE-07 HCFRL	AVE-09 HCFRL	AVE-12 HCFRL	AVE-15 HCFRL	AVE-17 HCFRL	AVE-19 HCFRL	AVE-22 HCFRL	AVE-24 HCFRL
Power Supply			AC 1Φ, 220V~240V/50Hz								
Capacity	Cooling	kW	1.7	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
		Btu/h	5,800	7,500	9,600	12,300	15,300	17,100	19,100	21,500	24,200
	Heating	kW	1.9	2.5	3.2	4.0	5.0	5.6	6.3	7.1	8.0
		Btu/h	6,500	8,500	11,300	13,600	17,100	19,100	21,500	24,200	27,300
Power Input	Cooling	W	50	50	70	70	80	80	100	120	120
	Heating	W	50	50	70	70	80	80	100	120	120
Sound Pressure		dB(A)	29/24/22	29/24/22	35/25/23	35/25/23	36/25/23	36/25/23	35/25/23	39/26/25	39/26/25
Airflow Rate		m³/min	7/5.5/4.7	7/5.5/4.7	9/5.7/4.8	9/5.7/4.8	12/6.3/5.5	12/6.3/5.5	13.5/8/7.7	18/9.3/8.7	18/9.3/8.7
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)								
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
		inch	1/2	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	Condensate Drain	mm	I.D. 32								
Weight	Net Weight	kg	16	16	17	17	21	21	25	26	26
	Gross Weight	kg	19	19	20	20	24	24	29	29	29
Dimensions	External	H mm	192	192	192	192	192	192	192	192	192
		W mm	700	700	700	700	910	910	1180	1180	1180
		D mm	447	447	447	447	447	447	447	447	447
	Packaging	H mm	270	270	270	270	270	270	270	270	270
		W mm	925	925	925	925	1136	1136	1406	1406	1406
		D mm	574	574	574	574	574	574	574	574	574

NOTES:

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

Ceiling Ducted Type(DC Low Height)

Model			AVE-05 HJFDL	AVE-07 HJFDL	AVE-09 HJFDL	AVE-12 HJFDL	AVE-15 HJFDL	AVE-17 HJFDL	AVE-19 HJFDL	AVE-22 HJFDL	AVE-24 HJFDL
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz								
Capacity	Cooling	kW	1.7	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
		Btu/h	5,800	7,500	9,600	12,300	15,300	17,100	19,100	21,500	24,200
	Heating	kW	1.9	2.5	3.2	4.0	5.0	5.6	6.3	7.1	8.0
		Btu/h	6,500	8,500	11,300	13,600	17,100	19,100	21,500	24,200	27,300
Power Input	Cooling	W	30	30	50	50	60	60	60	90	90
	Heating	W	30	30	50	50	60	60	60	90	90
Sound Pressure		dB(A)	28/27/26/24/23/21	28/27/26/24/23/21	35/32/32/30/26/23	35/32/32/30/26/23	35/32/32/30/26/23	35/32/32/30/26/23	35/32/30/28/25/23	38/36/35/33/31/24	38/36/35/33/31/24
Airflow Rate		m³/min	7.0/6.5/6.1/5.7/5.3/4.8	7.0/6.5/6.1/5.7/5.3/4.8	9.0/8.1/7.3/6.7/5.9/5.2	9.0/8.1/7.3/6.7/5.9/5.2	12/10.8/9.4/8.1/6.8/5.5	12/10.8/9.4/8.1/6.8/5.5	13.5/12.5/11.2/10.0/8.8/7.7	18/16.1/14.3/12.3/10.5/8.7	18/16.1/14.3/12.3/10.5/8.7
External Static Pressure		Pa	10(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	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
		inch	1/2	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	Condensate Drain	mm	I.D. 32								
Weight	Net Weight	kg	16	16	17	17	20	20	24	24	24
	Gross Weight	kg	19	19	20	20	24	24	29	29	29
Dimensions	External	H mm	192	192	192	192	192	192	192	192	192
		W mm	700	700	700	700	910	910	1180	1180	1180
		D mm	447	447	447	447	447	447	447	447	447
	Packaging	H mm	270	270	270	270	270	270	270	270	270
		W mm	925	925	925	925	1136	1136	1406	1406	1406
		D mm	574	574	574	574	574	574	574	574	574

NOTES:

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

Ceiling Ducted Type (High/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

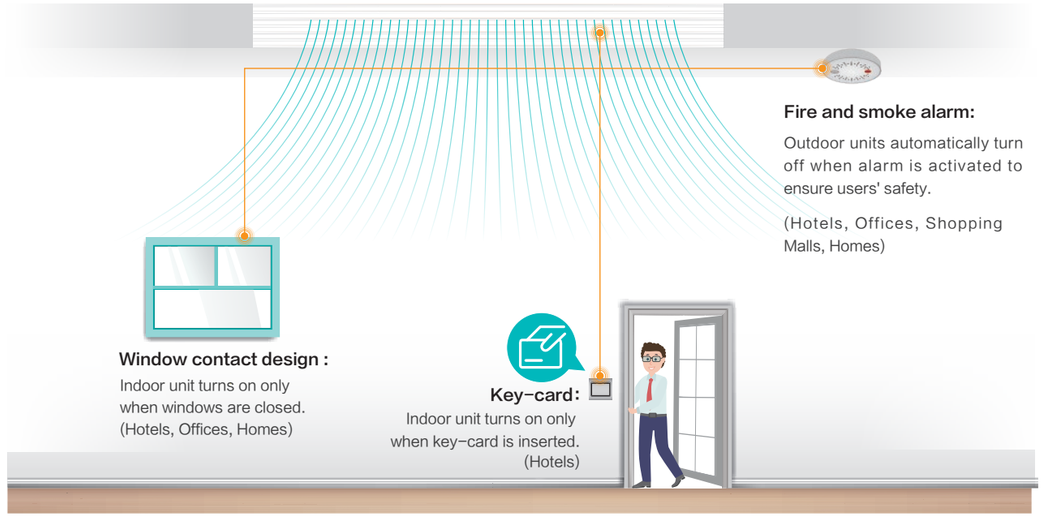
Standard filters that comes with high/low static pressure ceiling ducted type are now improved to be bendable by improving the material's malleability to improve installation flexibility in narrow ceiling height and restricted spaces.

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

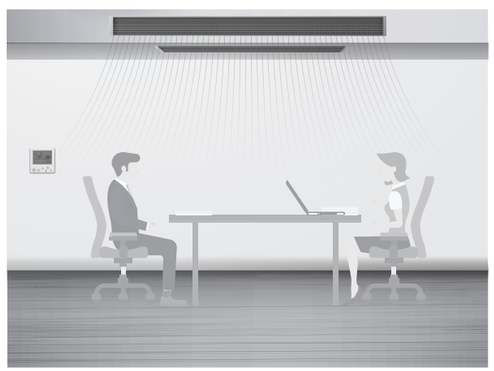
Third party devices to control the on-off air conditioners is possible with dry contact connections to the Indoor unit. Devices like room key card, window contact and fire alarms can be connected simultaneously.



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.

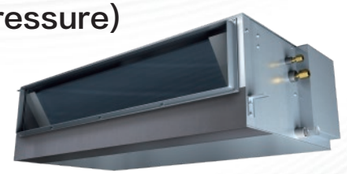
Hisense VRF



Conventional

INDOOR UNIT

Ceiling Ducted Type (High Static Pressure)



Model			AVD-07 HCFCH	AVD-09 HCFCH	AVD-12 HCFCH	AVD-15 HCFCH	AVD-19 HCFCH	AVD-22 HCFCH	AVD-24 HCFCH	AVD-27 HCFCH	AVD-30 HCFCH	AVD-38 HCFCH	AVD-48 HCFCH	AVD-54 HCFCH	AVD-76U X6SEH*2	AVD-96U X6SFH*2
Power Supply			AC 1Φ, 220V~240V/50Hz												AC 3Φ, 380~415V/50Hz	
Model			AVD-07 H3FCH	AVD-09 H3FCH	AVD-12 H3FCH	AVD-15 H3FCH	AVD-19 H3FCH	AVD-22 H3FCH	AVD-24 H3FCH	AVD-27 H3FCH	AVD-30 H3FCH	AVD-38 H3FCH	AVD-48 H3FCH	AVD-54 H3FCH	—	—
Power Supply			AC 1Φ, 208~230V/60Hz													
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
		Btu/h	7,500	9,600	12,300	15,400	19,100	21,600	24,200	27,400	30,800	38,000	48,000	54,500	76,500	95,600
	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
		Btu/h	8,500	10,900	13,700	17,100	21,600	24,200	27,400	30,800	34,200	42,500	54,500	61,500	85,300	107,500
Power Input	Cooling	kW	0.10(0.13*1)	0.10(0.13*1)	0.13(0.16*1)	0.13(0.16*1)	0.14(0.21*1)	0.19(0.24*1)	0.19(0.24*1)	0.25(0.34*1)	0.25(0.34*1)	0.25(0.34*1)	0.34(0.45*1)	0.43(0.59*1)	1.08	1.34
	Heating	kW	0.10(0.13*1)	0.10(0.13*1)	0.13(0.16*1)	0.13(0.16*1)	0.14(0.21*1)	0.19(0.24*1)	0.19(0.24*1)	0.25(0.34*1)	0.25(0.34*1)	0.25(0.34*1)	0.34(0.45*1)	0.43(0.59*1)	1.08	1.34
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 208V/60Hz	Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	220	220
	230V/60Hz	Pa	80(105)	80(105)	90(115)	90(115)	90(115)	90(115)	90(115)	170(150)	170(150)	170(150)	170(150)	170(150)	–	–
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)												Brazing	
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ 6.35	Φ9.53	Φ 9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	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*1)	25(24*1)	25(24*1)	25(24*1)	30(31*1)	30(31*1)	30(31*1)	45(44*1)	45(44*1)	45(44*1)	53(50*1)	53(50*1)	94	106
	Gross Weight	kg	31(30*1)	31(30*1)	31(30*1)	31(30*1)	36(38*1)	37(38*1)	37(38*1)	52(52*1)	52(52*1)	52(52*1)	61(59*1)	61(59*1)	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	1120	1120
	Packaging	H mm	385	385	385	385	385	385	385	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	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℃DB(80° F DB), 19.0℃ WB(66.2° F WB)
Outdoor Air Inlet Temperature: 35℃ DB(95° F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB(68° F DB)
Outdoor Air Inlet Temperature: 7℃ DB(45° F DB), 6℃ WB(43° F WB)

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

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

*1: The value noted *1 is the parameter of the indoor units with power supply 208~230V/60Hz.
2: For AVD-76/96, an optional filter is needed.

Ceiling Ducted Type (Low Static Pressure)

Model			AVD-07 HCFCL	AVD-09 HCFCL	AVD-12 HCFCL	AVD-15 HCFCL	AVD-19 HCFCL	AVD-22 HCFCL	AVD-24 HCFCL	AVD-27 HCFCL	AVD-30 HCFCL	AVD-38 HCFCL	AVD-48 HCFCL	AVD-54 HCFCL	AVD-76U X6SEL	AVD-96U X6SFL
Power Supply			AC 1Φ, 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
	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
		Btu/h	8,500	10,900	13,700	17,100	21,600	24,200	27,400	30,800	34,200	42,500	54,500	61,500	85,300	107,500
Power Input	Cooling	W	60	60	110	110	90	160	160	240	240	240	290	360	950	1120
	Heating	W	60	60	110	110	90	160	160	240	240	240	290	360	950	1120
Sound Pressure		dB(A)	27/23/21	27/23/21	34/30/25	34/30/25	32/30/26	35/28/24	35/28/24	38/33/30	38/33/30	38/33/30	41/38/33	44/39/33	50	52
Air Flow Rate (Hi/Me/Lo)		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	1120	1120
	Packaging	H mm	385	385	385	385	385	385	385	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	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℃ DB(80° F DB), 19.0℃ WB(66.2° F WB)
Outdoor Air Inlet Temperature: 35℃ DB(95° F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB(68° F DB)
Outdoor Air Inlet Temperature: 7℃ DB(45° F DB), 6℃ WB(43° F WB)

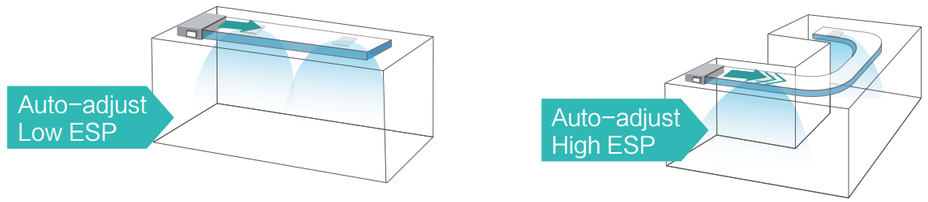
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.
With discharge duct (2.0m) and return duct(1.0m)
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

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

Ceiling Ducted Type (DC High Static Pressure)

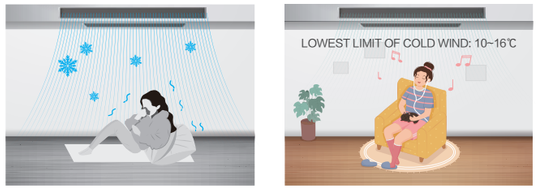
Auto-adjust External Static Pressure

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, between 50Pa and 250Pa.



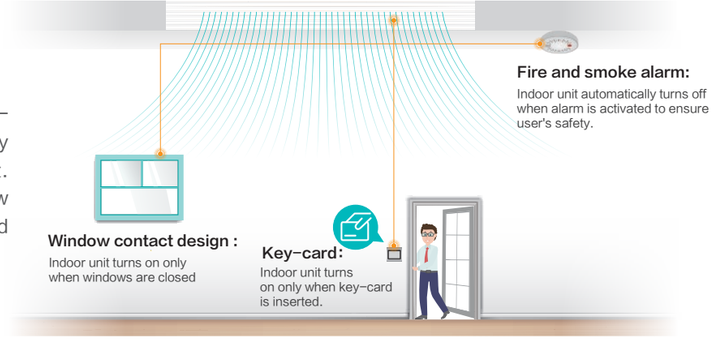
Cold Wind Limit Setting

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℃, 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.



Various Device Connection Options

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



Multiple Filters for Different Requirements(Optional)

A dedicated filter box can be connected to the unit, satisfying the indoor air quality requirements. Either a coarse filter or a high-efficiency filter (filter level ePM10 55%) can be installed in the filter box, also both of them can be installed for better filtering simultaneously.

Filter

Model	Descriptions
HFB-96LFGDE	Dedicated filter box
HF-96HFGDE	High-efficiency filter with filter level ePM10 55%
HF-96LFGDE	Coarse filter

Note: When using HF-96HFGDE and HF-96LFGDE, the dedicated filter box is required.
The convenient coarse filter HF-280L-FE can also be used directly.

Ceiling Ducted Type (DC High Static Pressure)

Model			AVD-76HJFH	AVD-96HJFH
Power Supply			AC 1Φ, 220~240V/50Hz; AC1Φ, 220V/60Hz	
Capacity	Cooling	kW	22.4	28.0
		Btu/h	76,500	95,600
	Heating	kW	25.0	31.5
		Btu/h	85,300	107,500
Power Input	Cooling	kW	0.61	0.83
	Heating	kW	0.61	0.83
Sound Pressure Level		dB	49/48/47/ 46/45/44	53/52/50/ 49/47/45
Airflow Rate		m^3/min	57/54/52/ 51/49/48	72/68/65/ 61/58/50
External Static Pressure		Pa	150(50~250)	150(50~250)
Piping	Connection Type	–	Brazing	
	Liquid	mm	Φ9.53	Φ9.53
		inch	3/8	3/8
	Gas	mm	Φ22.2 (Φ19.05)*1	Φ22.2
		inch	7/8 (3/4)*1	7/8
	Condensate Drain	mm	I.D. 32	
Weight	Net Weight	kg	104	104
	Gross Weight	kg	125	125
Dimensions	External	H mm	470	470
		W mm	1250	1250
		D mm	1120	1120

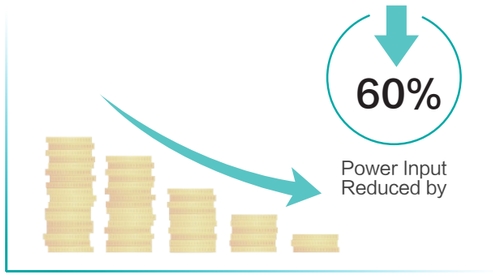
NOTES:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB(80° F DB), 19.0℃ WB(66.2° F WB)
   Outdoor Air Inlet Temperature: 35℃ DB(95° F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB(68° F DB)
   Outdoor Air Inlet Temperature: 7℃ DB(45° F DB), 6℃ WB(43° F WB)
2. The sound pressure level is based on following conditions:
   1.5m beneath the unit
   With discharge duct (2.0m) and return duct (1.0m)
   Voltage of the power supply is 220V
   Without air filter installed
   Under the external static pressure 150Pa
   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration on site. In case of the power supply of 240V, the sound pressure level will be increased by about 1 dB(A).
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.

Wall Mounted Type

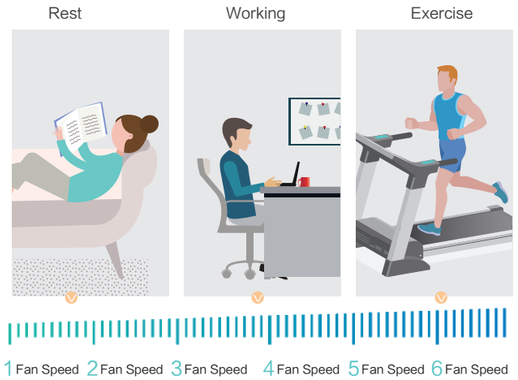
High-efficiency DC Fan Motor

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 oper-ation.



6 Fan Speed

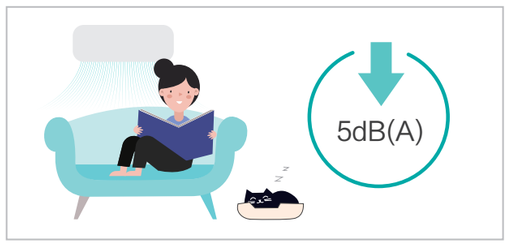
6 indoor fan speeds are available to meet the needs of different indoor conditions.



Optimal Noise Control

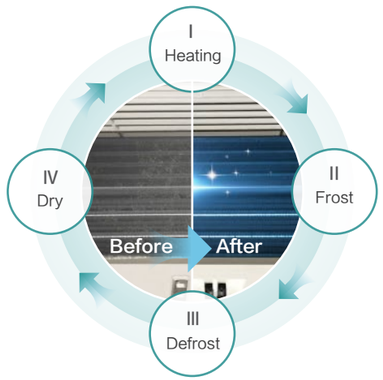
The low-noise DC fan motor and the enhanced vibration pad on the distribution pipe and EEV will ensure a quieter operation. Besides, with Hisense special smart noise reduction technology, the operation noise can also be decreased effectively. During the high airflow operation, maximum 5dB(A)* is decreased compare with the previ-ous 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



Self-cleaning Function

Featured with self-cleaning technology, the evaporator can be self-cleaned automatically just with the tap of a button in the controller, which is very convenient and saves the cost of manual cleaning, while ensuing a clean environment.



4 processes for deep cleaning

Wall Mounted Type

Model			AVS-05 HJFTDD	AVS-07 HJFTDD	AVS-09 HJFTDD	AVS-12 HJFTDD	AVS-15 HJFTDD	AVS-18 HJFTDD	AVS-24 HJFTDD	AVS-28 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/ 30/30/28	36/35/33/ 32/30/28	36/35/33/ 32/30/28	38/35/33/ 32/30/28	38/37/36/ 32/31/29	40/38/36/ 35/33/31	45/42/41/ 38/35/31	50/48/45/ 41/36/33
Airflow Rate		m³/min	8.7/8.3/8.2/ 7.5/7.2/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	10.3/9.2/8.7/ 8.2/7.5/7.0	11.5/11.0/10.3/ 9.0/8.7/8.0	16.2/15.0/14.2/ 13.3/12.2/11.5	20.0/18.0/17.0/ 15.0/13.3/11.7	23.3/22.0/20.0/ 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
Demensions	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℃ DB, 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height diference: 0m
   Heating conditions: indoor air inlet temperature: 20℃ DB, outdoor air inlet temperature: 7℃ DB, 6℃ WB, pipe length: 7.5m, pipe height diference: 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 an streamlined elegant aesthetic. The bolts and nuts used to secure the unit onto wall or ceiling are designed to be concealed in the unit for a sleek room interior look.

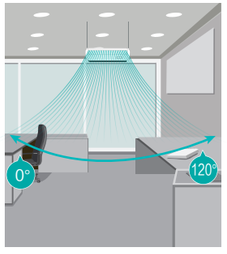
Flexible Installation

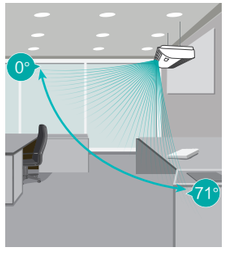
The unit can be installed to be standing on floors or hanging on ceilings. Whereby interior walls maximized to display items, can hang the unit on the ceiling. Very sig–nificant effect on space saving.

Hanging on the wall Standing on the floor

Wide Air Supply

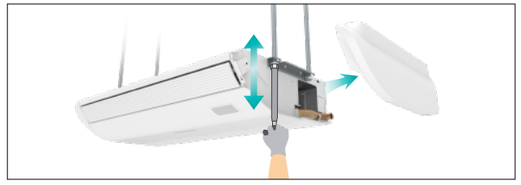
Louvers are consist of horizontal and vertical flaps to cover larger coverage area to the edges of any rooms. Wider opening angle from up to 120° for vertical louvers and up to 71° for horizontal louvers supplies air further and lower down to floor during heating modes.





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 electri–cal box behind the air return panel.



Ceiling & Floor Type

Model			AVV–17URSCA	AVV–18URSCA	AVV–22URSCA	AVV–24URSCA	AVV–27URSCB	AVV–30URSCB	AVV–38URSCB	AVV–48URSCC
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz							
Capacity	Cooling	kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
		Btu/h	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500
	Heating	kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
		Btu/h	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600
Power Input	Cooling	W	40	40	70	70	70	80	130	160
	Heating	W	40	40	70	70	70	80	130	160
Sound Pressure	Ceiling	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
	Floor	dB(A)	43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Airflow Rate		m^3/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		m^3/min	14.2	14.2	17.8	17.8	19.8	21.2	27.0	36.0
Speed–up Setting HH2		m^3/min	16.0	16.0	20.0	20.0	22.3	23.5	29.2	37.4
Panel Colour		–	Neture White							
Piping	Connection Type	–	Flare–nut Connection(with Flare Nuts)							
	Liquid	mm	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		inch	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm	I.D. 32							
Weight	Net Weight	kg	31	31	32	32	39	40	41	47
	Gross Weight	kg	38	38	39	39	46	47	48	56
Dimensions	External	H mm	230	230	230	230	230	230	230	230
		W mm	990	990	990	990	1285	1285	1285	1580
		D mm	680	680	680	680	680	680	680	680
	Packaging	H mm	340	340	340	340	340	340	340	340
		W mm	1110	1110	1110	1110	1400	1400	1400	1690
		D mm	830	830	830	830	830	830	830	830

NOTES:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB(80° F DB), 19.0℃ WB(66.2° F WB)
   Outdoor Air Inlet Temperature: 35℃ DB(95° F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20℃ DB(68° F DB)
   Outdoor Air Inlet Temperature: 7℃ DB(45° F DB), 6℃ WB(43° F WB)
2. The sound pressure level is based on the following condations:
   1.0m beneath the unit,1.0m from Discharge Grille.
   The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

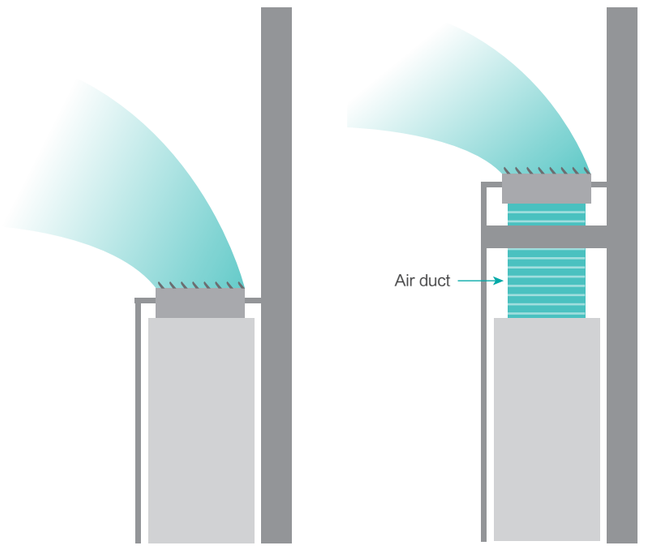
Floor Concealed Type

Space Saving

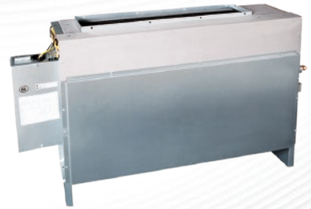
Floor concealed units are designed to be installed on floors completely concealed into the walls. It's designed to be slim and compact with only height of 620mm to be hidden under half-heighted windows.

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 1Φ, 220V~240V/50Hz			
Model			AVH-09UX2SAA	AVH-14UX2SAA	AVH-18UX2SBA	AVH-24UX2SBA
Power Supply			AC 1Φ, 220V/60Hz			
Capacity	Cooling	kW	2.8	4.3	5.6	7.1
		Btu/h	9,600	14,700	19,100	24,200
	Heating	kW	3.3	4.9	6.5	8.5
		Btu/h	11,300	16,700	22,200	29,000
Power Input	Cooling	W	50	80	90	120
	Heating	W	50	80	90	120
Sound Pressure		dB(A)	34/31/27	40/36/34	41/36/32	44/40/36
Airflow Rate		m³/min	8.5/7.5/6.3	10.3/9.0/8.0	14.8/12.3/10.5	16.3/13.8/11.8
Piping	Connection Type	-	Flare-nut Connection(with Flare Nuts)			
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53
		inch	1/4	1/4	1/4	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88
		inch	1/2	1/2	5/8	5/8
	Condensate Drain	mm	I.D. 32			
Weight	Net Weight	kg	18	22	26	27
	Gross Weight	kg	30	31	37	37
Dimensions	External	H mm	620	620	620	620
		W mm	948+139	948+139	1218+139	1218+139
		D mm	202	202	202	202
	Packaging	H mm	675	675	675	675
		W mm	1160	1160	1430	1430
		D mm	240	240	240	240

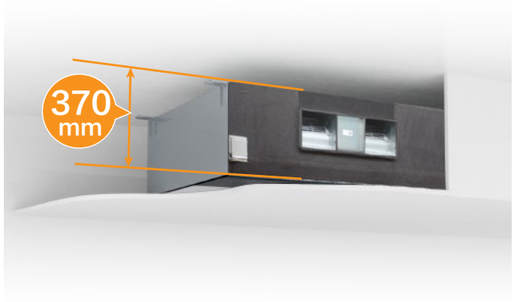
NOTES:

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

All Fresh Air Indoor Unit

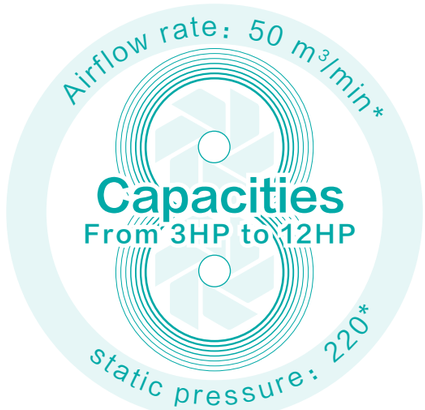
Space Saving

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



Larger Airflow Rate & Static Pressure Options

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



*Note: only specific model can reach this figure.

Simple & Flexible Piping System

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

All Fresh Air Indoor Unit

Model			AVA-30UX CSCH-70	AVA-48UX CSQH-108	AVA-76UX CSRH-168	AVA-96UX CSRH-210	AVA-114UX 6SRH-300
Power Supply			AC 1Φ, 220V~240V/50Hz				AC 3Φ, 380V~415V/50Hz
Model			AVA-30UX 2SCH-70	AVA-48UX 2SQH-108	AVA-76UX 2SRH-168	AVA-96UX 2SRH-210	AVA-114UX 7SRH-300
Power Supply			AC 1Φ, 220V/60Hz				AC 3Φ, 380V/60Hz
Capacity	Cooling	kW	9.0	14.0	22.4	28.0	33.5
		Btu/h	30,700	47,800	76,500	95,600	114,300
	Heating	kW	8.6	13.7	21.9	24.5	26.8
		Btu/h	29,400	46,800	74,700	83,600	91,500
Power Input	Cooling	W	150	330	490	510	740
	Heating	W	150	330	490	510	740
Sound Pressure		dB(A)	32	43	45	46	56
Airflow Rate		m³/min	11.0	18.0	28.0	35.0	50.0
External Static Pressure		Pa	60(120)	200	220	220	220
Piping	Liquid	mm	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 12.7
		inch	3/8	3/8	3/8	3/8	1/2
	Gas	mm	Φ 15.88	Φ 15.88	Φ 19.05	Φ 22.2	Φ 25.4
		inch	5/8	5/8	3/4	7/8	1
	Condensate Drain	mm	I.D.32				
Weight	Net Weight	kg	46	60	97	97	97
	Gross Weight	kg	51	64	117	117	117
Dimensions	External	H mm	370	370	486	486	486
		W mm	920	1320	1270	1270	1270
		D mm	800	800	1069	1069	1069
	Packaging	H mm	390	390	540	540	540
		W mm	1112	1512	1290	1290	1290
		D mm	922	922	1466	1466	1466
Temperature Range of Fresh Air		–	Cooling: 20℃~43℃, Heating: -5℃~15℃				

NOTES:

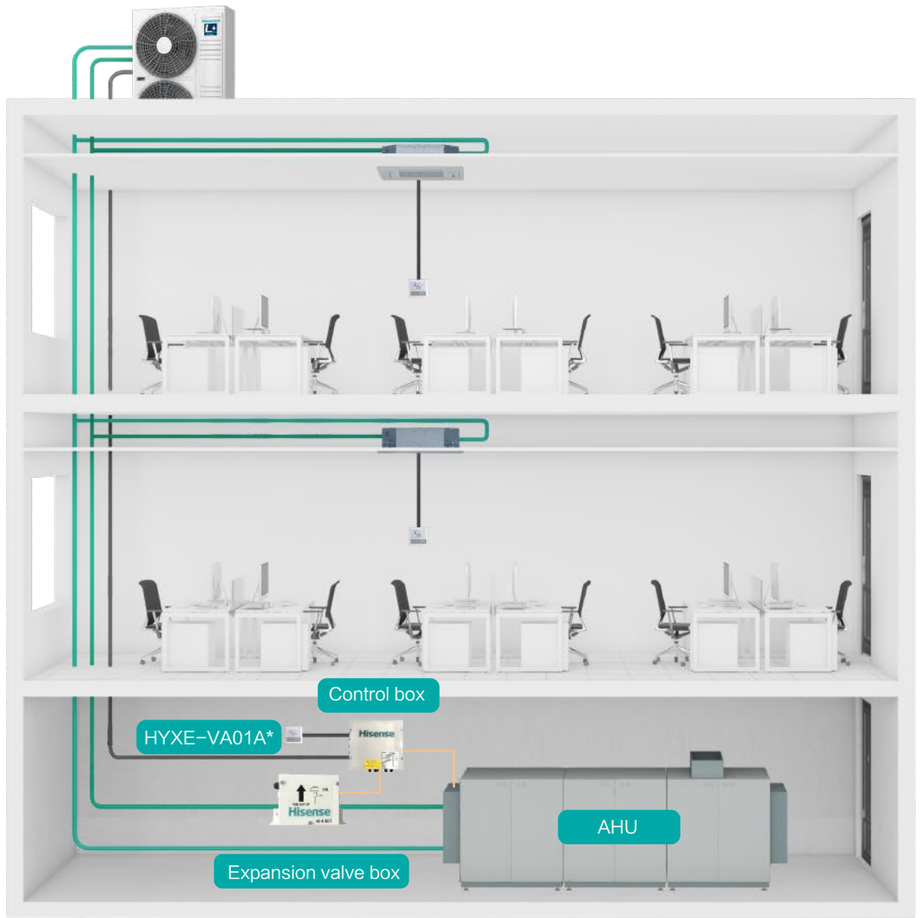
1. The nominal cooling capacity and heating capacity are based on following conditions Cooling operation conditions: 33℃ DB, 28℃ WB, piping length: 7.5m, piping lift: 0m Heating operation conditions: 0℃ DB, -2.9℃ WB, piping length: 7.5m, piping lift: 0m (Heating capacity is tested when defrosting is not available)
2. The sound pressure level is based on following conditions: 1.5 Meter beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the filed.
3. An air filter with duct collection efficiency more than 50% needs to be attached to the duct system of the suction side at site.
4. Under cooling mode,when outdoor temperature is lower than 20℃,the system will automatically shift to ventilation operation; Under heating mode, when outdoor temperature is higher than 15℃ the system will automatically shift to ventilation operation; In case inlet temperature is below -5℃ all fresh air unit will stop.
5. In case of connecting this fresh air unit with other indoor units in the same refrigerant system, please calculate the capacity of this unit as 13.5kW(AVA-30*), 21.0kW(AVA-48*), 33.6kW(AVA-76*), 42.0kW(AVA-96*).

AHU Connection KIT

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 Connection KIT			HZX-2.0 AEC	HZX-4.0 AEC	HZX-6.0 AEC	HZX-10.0 AEC		HZX-20.0 AEC					HZX-30.0 AEC				
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz														
Nominal Capacity of AHU		HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Allowed Heat Exchanger Capacity (H/M/L)	Cooling	kW	4.0	7.1	11.2	16.0	20.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0
		kW	5.0	9.0	14.0	20.0	25.0	30.0	35.0	43.0	48.0	52.0	58.0	65.0	71.0	76.0	82.0
		kW	5.6	11.2	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0	85.0
	Heating	kW	4.5	8.0	12.5	17.9	22.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0
		kW	5.6	10.0	16.0	22.4	28.0	33.5	40.0	47.5	53.0	60.0	66.0	75.0	79.0	86.0	92.0
		kW	7.1	12.5	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0	95.0
Heat Exchanger Volume	Min	dm^3	0.57	1.03	1.92	2.92	3.89	4.76	5.85	6.79	7.57	8.47	9.04	9.50	10.39	11.39	12.36
	Max	dm^3	1.16	2.37	2.92	3.89	4.76	5.91	6.89	8	8.92	9.97	11.13	12.34	12.89	13.86	14.73
Equivalent Indoor Unit Capacity		HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Control Box Model		–	HZX-AEC/1														
Expansion Valve Box Model		–	HZX-2.0 AEC/2	HZX-4.0 AEC/2	HZX-6.0 AEC/2	HZX-10.0 AEC/2		HZX-20.0 AEC/2					HZX-20.0 AEC/2 2set				

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

DB: dry bulb; WB: wet bulb

Pipe Length: 7.5m; pipe height: 0m

CONTROL SYSTEM

Individual Control

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	●	●	●	●	○	●	○	○
Window contact design	●	●	●	●	○	○	○	○
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	ON/OFF
Model		HYRE-V02H	HYRE-Z01H	HYRE-T03H	HYRE-X01H	HYJM-S01H	HYJ-J01H
Picture							
Indoor Unit	4-Way Cassette	○	○	●	○	●	●
	Mini 4-Way Cassette	○	●	○	○	●	●
	1-Way Cassette	○	○	○	●	●	●
	2-Way Cassette	●	○	○	○	●	●
	Ceiling Ducted Type(AC/DC)	●	○	○	○	●	●
	Ceiling Ducted Type(High/Low)	●	○	○	○	●	●
	Console	●	○	○	○	●	●
	Wall Mounted Type	●	○	○	○	●	●
	Ceiling & Floor Type	●	○	○	○	●	●
	Floor Concealed Type	●	○	○	○	●	●
	All Fresh Air	●	○	○	○	●	●
	Heat Recovery Ventilator	○	○	○	○	●	●

Remarks: ● Optional ○ Incompatible ▲ Standard

Wired Controller

HYXM-VB01A

Mode	Cool/Heat/Auto/Fan/Dry
Timer	24-hour/Weekly schedule/Holiday setting
Maintenance	Error code / Parameter check/Auto test run/ Indoor&Outdoor PCB checking/Self diagnostic function
Louver	Louver setting/Individual louver control/ 3D-air flow
Special function	Breeze mode/Motion sensor/Health/ Hi-Motion/ECO/Quiet/Sleep/Self-cleaning
Fan speed	6
Temperature setting	0.5℃
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

Heat

Cool

OFF

HYXE-VC01

Mode	Cool/Heat/Auto/Fan/Dry
Timer	24-hour timer
Maintenance	Error code / Parameter check/Auto test run/ Self diagnostic function/Indoor & Outdoor PCB checking/ Air filter cleaning reminding/IDU address setting
Louver	7 Louver setting/3D-air flow/ Individual louver control
Special function	Health/ECO/Quiet/Sleep/Self-cleaning
Fan speed	6
Temperature setting	0.5℃ 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-J01H

Mode	Cool/Heat/Auto/Fan/Dry
Timer	24-hour/Weekly schedule/Holiday setting
Maintenance	Error code / Parameter check/Auto test run/ Indoor&Outdoor PCB checking/Self diagnostic function
Louver	Louver setting/Individual louver control/ 3D-air flow
Special function	Breeze mode/Motion sensor/Health/ Hi-Motion/ECO/Quiet/Sleep
Fan speed	6
Temperature setting	0.5℃
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-VA01A

Mode	Cool/Heat/Auto/Fan/Dry
Timer	72-hour
Maintenance	Error code / Parameter check/Auto test run/ 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/ Sleep/Self-cleaning
Fan speed	6
Temperature setting	0.5℃
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-S01H

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

Features

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

Wireless Controller

HYE-VD01

Mode	Cool/Heat/Auto/Fan/Dry
Timer	24-hour timer
Maintenance	Auto test run/Self diagnostic function/ 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℃ accuracy/Display the setting temp. or room temp.
Built-in temperature sensor	•

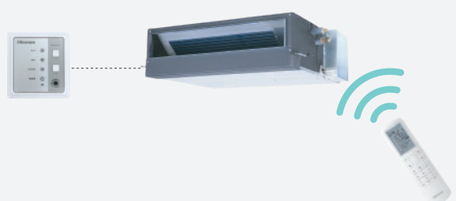
Features

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

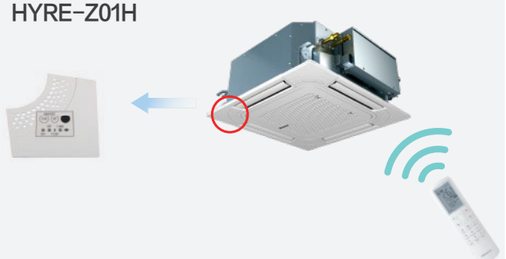
Receiver Kit for Wireless Control-Optional

HYRE-X01H

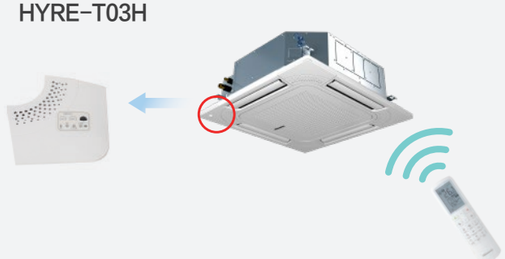
HYRE-V02H



HYRE-Z01H



HYRE-T03H



Centralized Control

Smart Touch
HYJM-S01H

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

Features

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

ON/OFF Controller
HYJ-J01H

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

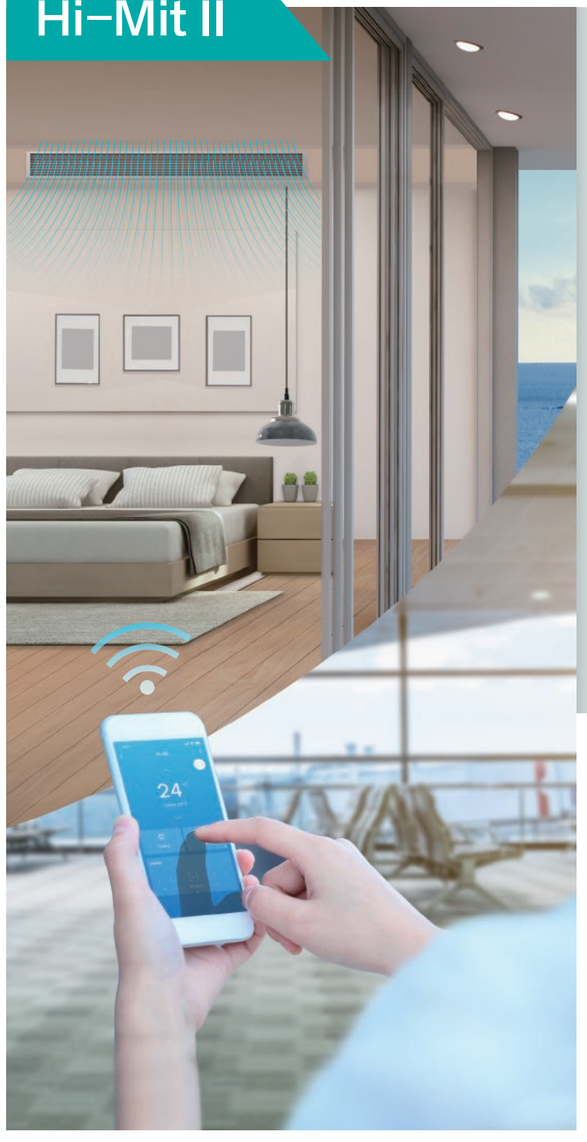
Features

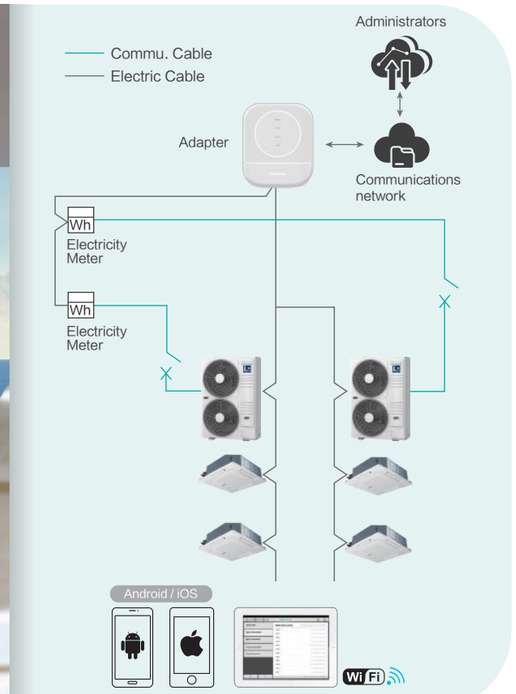
- Size:120mm × 120mm
- Max. connectable indoor units:128
- Max.connectable indoor unit groups:16
- Touch button

CONTROL SYSTEM

Intelligent Control

Hi-Mit II





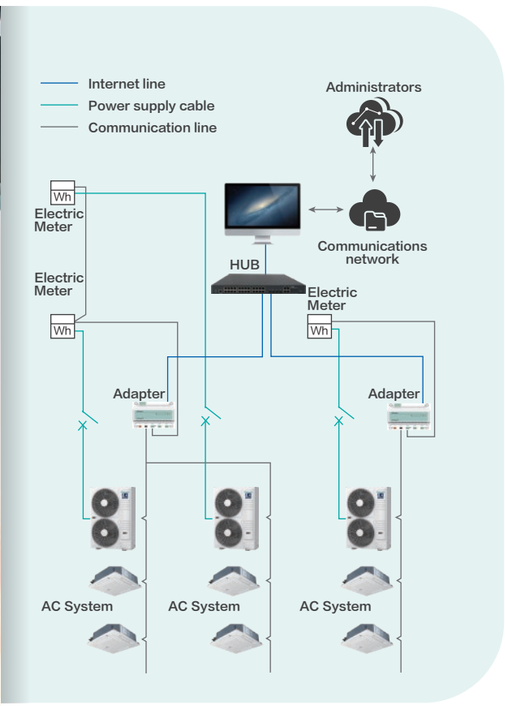
Features

- Remote control
- On/off, mode, temperature, fan speed, louver setting
- 7x24 Schedule setting
- Energy management
- Customized scenes setting
- 2 permission levels
- Supporting online repair report
- Up to 64 IDUs and 64 ODUs can be connected to one Hi-Mit II adapter
- 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

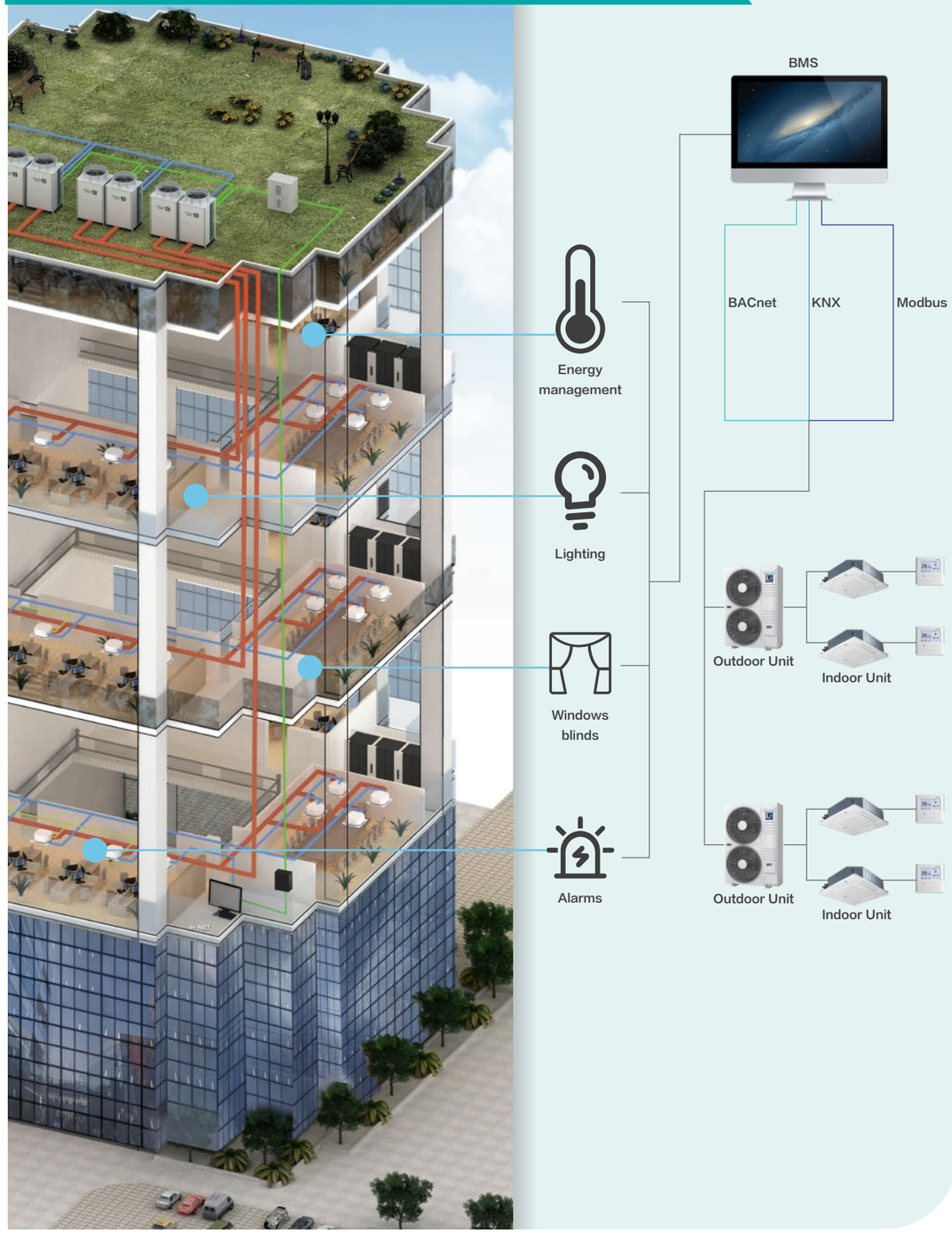
- Multilevel user management
- AC control(on-off,mode,temp,air flow)
- AC locked control(running forbidden control, the max. and min. temp and cooling/heating locked.)
- Running according to timer
- Malfunction history check
- Running record display
- Data synchronize
- Supporting for external I/O
- 2D Navigation
- Electricity consumption allocation
- One Hi-DOM controls 160 indoor units
- Max.5120 indoor units can be controlled

Specifications

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

CONTROL SYSTEM

Building Management System



KNX®

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

Features

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

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.

Accessories

Hi-Motion

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

Motion Sensor

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

Fresh Air Duct Adapter

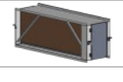
Model	Applicable Models	Picture
HFL-56CSA	4-Way Cassette Type and Mini 4-Way Cassette Type	

Humidity Sensor

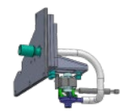
Model	Applicable Models	Picture
HCHR-S01E	4-Way Cassette Type, Console, Ceiling Ducted Typee, Wall Mounted Unit	

Filter

Filter model	Filter Dimension	Frame Dimension	Applicable Models	Picture
HF-224L-FE	910×432.5mm	1055×463mm	AVD-76UX6SEH/L	
HF-280L-FE	1100×432.5mm	1245×463mm	AVD-96UX6SFH/L, AVD-76/96HJFH	

Filter Box Model	Dimension(L×W×H)mm	Application Models	Applicable Filter	Picture
HFB-96LFGDE	1339×384×462	AVD-76/96HJFH	High-efficiency filter:HF-96HFGDE Coarse filter: HF-96LFGDE	

Drain Pump

Model	Applicable Models	Power Supply	Picture
HPS-F133E	AVD-07-24HCFCH / AVD-07-24HCFCL	220-240V/50Hz	 HPS-F133/363E
HPS-F363E	AVD-27-54HCFCH / AVD-27-54HCFCL		
HPS-151	All the High/Low Static Pressure Ceiling Ducted Units and All Fresh Air IDU 3-10HP	220-240V/50/60Hz	 HPS-151
HPS-F8103E	AVD-76/96HJFH	220-240V/50/60Hz	 HPS-F8103E

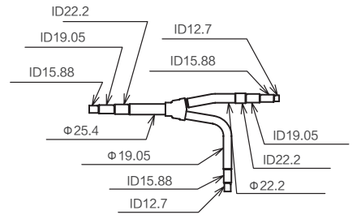
3D Air-flow Panel

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

AirPure Kit

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

Branch Pipe

Case	Gas	Liquid
HFQ-102F#E		Q'ty : 2