Hisense

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

http://www.hisensehvac.com export@hisensehitachi.com HisenseHVACGlobal Hisense HVAC Hisense HVAC

CE CB ISO14001 ISO9001 ISO81001 HCAC-CA-H202205

Hisense VRF

Hi-Smart H

Reimagine your solution

Hisense SINCE 1969

Hisense Group is a well-known large-scale electronic information industry group company. Based on technology and focusing on innovation-oriented culture, its scientific and efficient technological innovation system makes Hisense always be at the forefront of the counterparts. Hisense brand family has continued to grow with Toshiba, Gorenje and ASKO. Multi-brand operations will be defined according to Group's Strategy Management Department.

SINCE 1969

BUSINESS LAYOUT

Multimedia

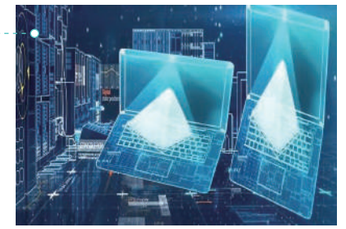
TV and Display Devices
Internet TV Operation
Mobile Communication Devices
Optical Communication
Devices
Chip

Household Appliances

Refrigerator
Freezer
Air-conditioner
Washing Machine
Kitchen Appliance

IT Smart Systems

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



Real Estate & Modern Services

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

GLOBAL HISENSE SINCE 1969

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

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 wholly owned subsidiary of Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd., who is a joint-venture of Hisense and Hitachi (changed to Johnson Control Hitachi in 2015) and was established in 2003.

It integrates technology development for commercial and residential central air conditioners, product manufacturing, marketing and service as a whole. With the full support of all the shareholders such as Hisense and Johnson Control Hitachi, Hisense HVAC is committed to becoming the market leader in the industry.

With solid technical innovation strength, Hisense HVAC has participated in the formulation and revision of 50 national standards, industry standards and association standards, and has 1045 authorized patents in the field of CAC and heat pump products. Since 2008, 65 technologies have reached the advanced level through authorized certification. Now Hisense HVAC has become a leading CAC enterprise in China.

Note: The above data is valid before Dec. 31th, 2021.

266,000 m^2
Manufacturing Area

40+
Production Line

6,000,000 units/year
Production Capacity

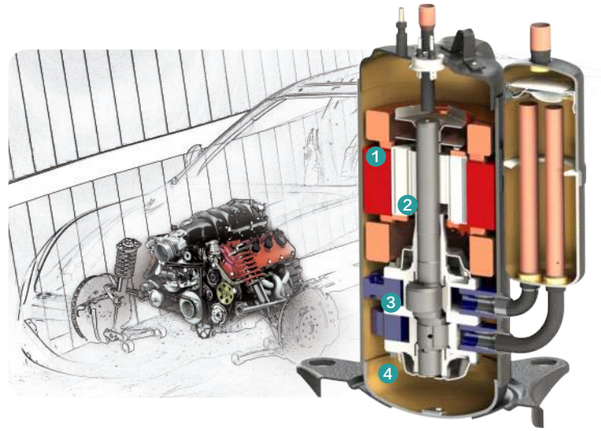
16,700 m^2/70+
Laboratory

CONTENTS

HIGH EFFICIENCY

High-efficiency DC Inverter Compressor

A high-efficiency DC inverter twin 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.

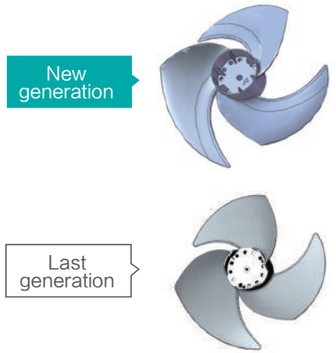
2 Optimized rotor design
Lower the center of gravity of the compressor to reduce the noise and vibration.

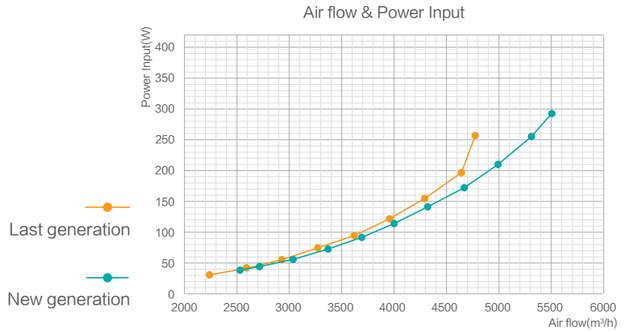
3 Flat mechanism design
Improve the volumetric efficiency and the total performance.

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.



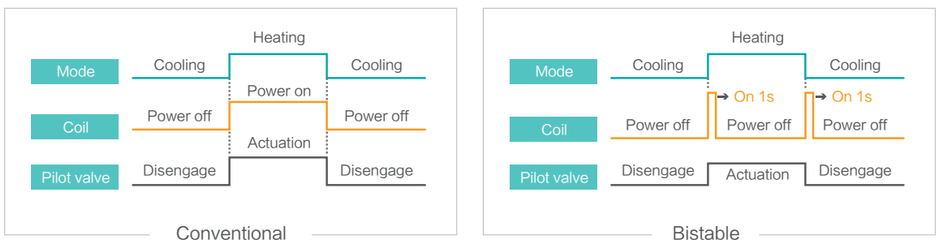


When the air flow is large,
the power input is reduced by 30W.

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.

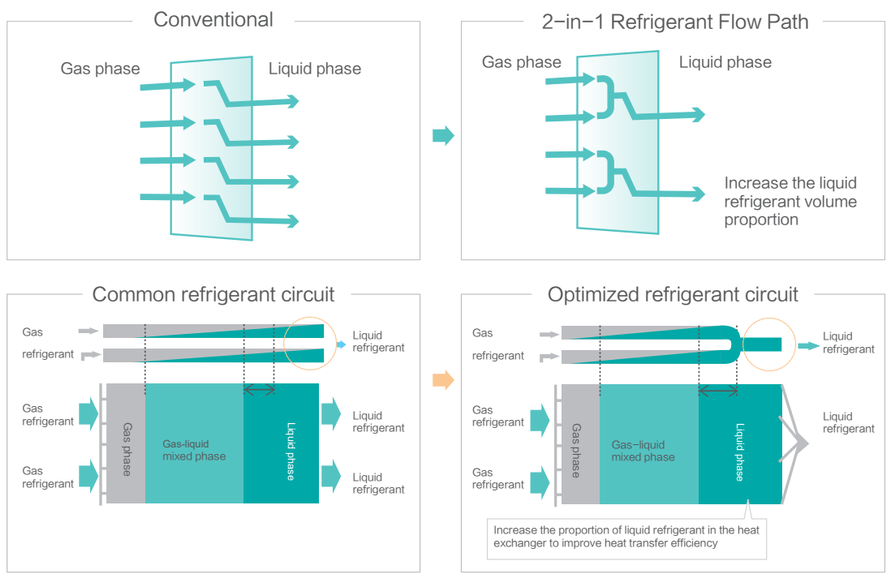
Note: It's available for the units AVW-76/96/114*.



High-efficiency Heat Exchanger

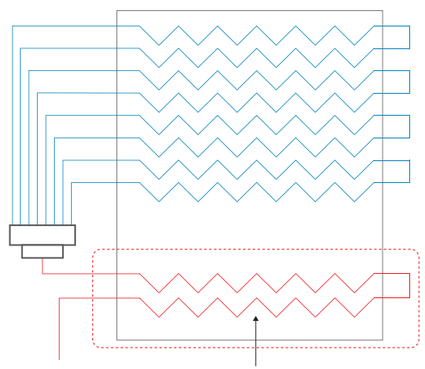
Optimized Refrigerant Circuit

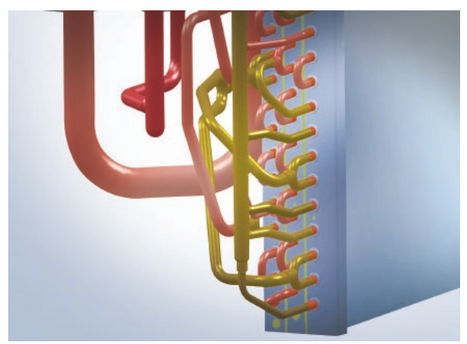
Using high precision imported equipment, our Hisense manufactured heat exchangers are of the highest quality. The non-expansion tube technology avoids reduced lifetime reliability caused by the stretching of copper pipes. The multi-column Φ7 refrigerant tubes effectively increase the heat exchange area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

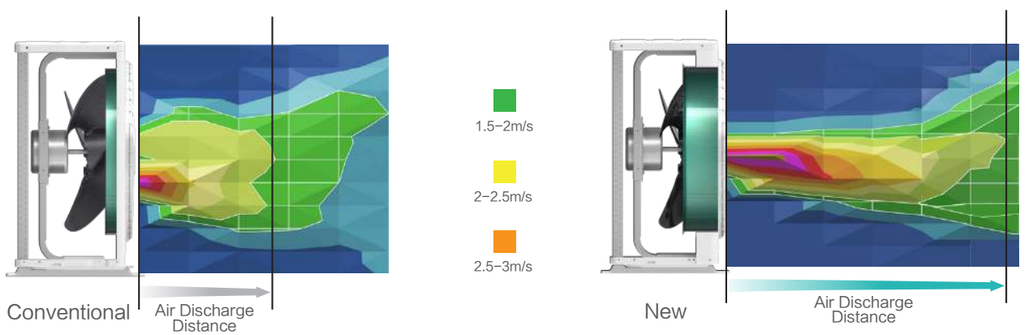




Further Air Discharge Distance

Optimized Air Duct System Design

An additional air duct like channel surrounding the fan is de-signed 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.



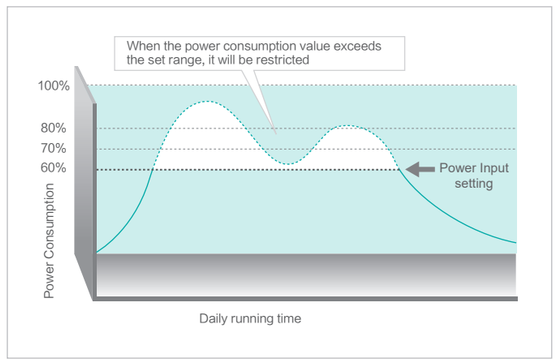
Note: 30Pa ESP is available for the units AVW-76/96/114*.

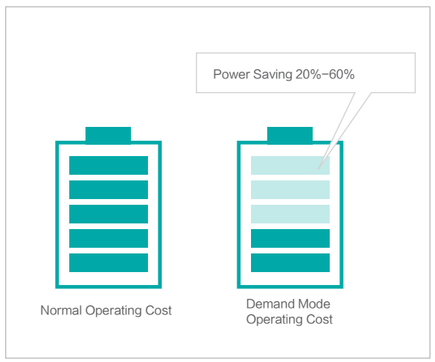
Aviation Level Design of Grill

The design of the grill follows the design concept of the aircraft engine design, which conforms to the aerodynam-ics principle. It helps to improve the air supply distance and maximize the cooling and heating performance.

Demand Mode

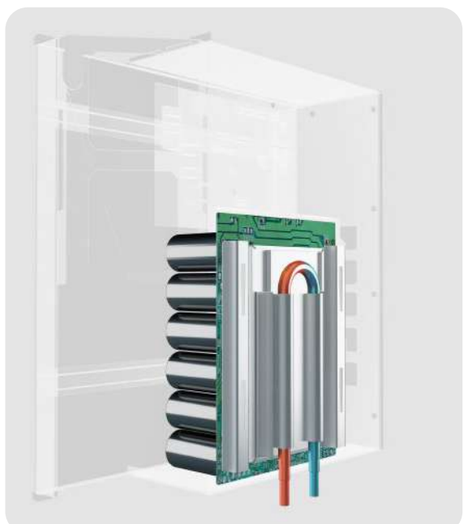
The intelligent demand mode can adjust the air conditioning system capacity output automatically according to peak-valley requirements of electricity. There are three levels setting, 80%, 70% and 60%. It achieves balance between comfort and energy-saving while meeting the power demand for daily work.





STABLE OPERATION

Patented 360° Fitted Refrigerant Cooling Technology



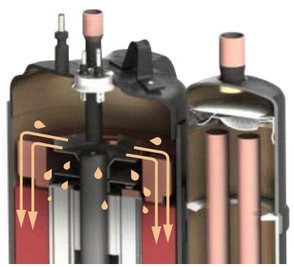
The outdoor unit uses patented 360° fitted refrigerant cooling technology to cool the whole electronic box effectively. It can overcome poor heat dissipation and solve high ambient temperature issues inside the electronic box, maintaining an efficient and reliable operation under harsh environment.

Note:
1. The electric box temperature drops by an average of **10%** compared with air-cooled type.

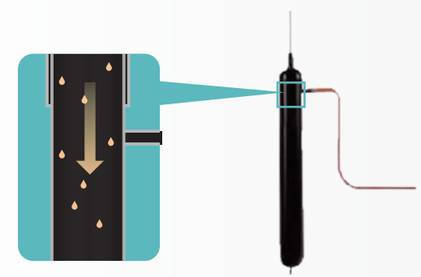
2.It's available for the units AVW-76/96/114*.

Multiple Oil Control

Oil separation



First-stage Oil Separation



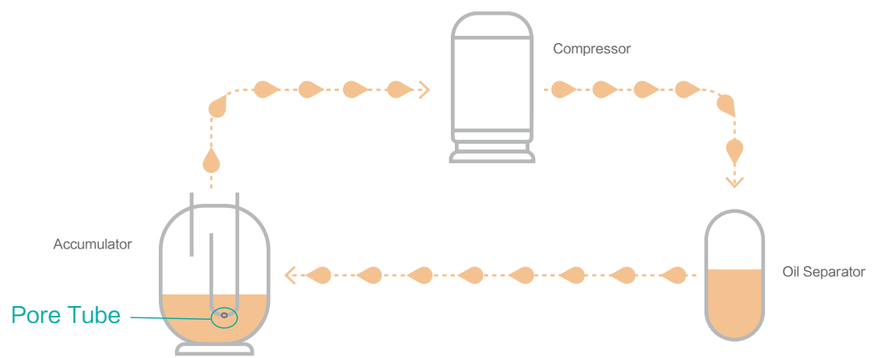
Second-stage Oil Separation

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 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%.

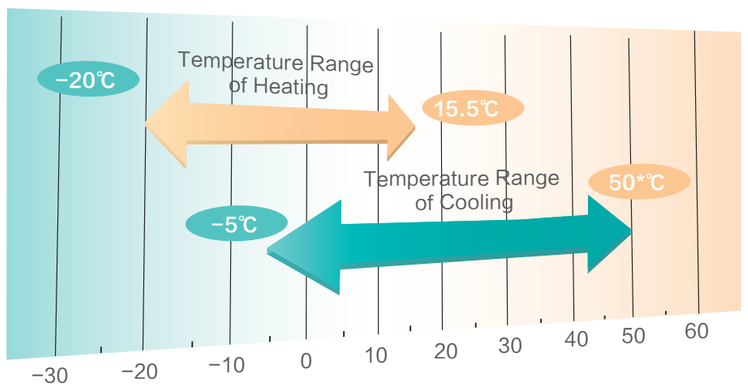
Oil return

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

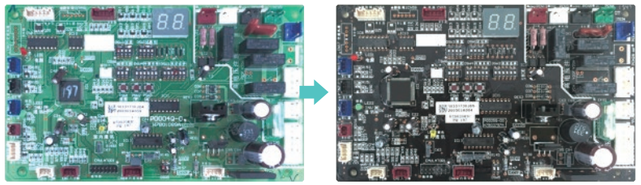
Extended operation range creates wider application potential. In cooling mode the maximum operation range is from -5℃ DB to 50*℃ DB and in heating mode the maximum operation range is from -20*℃ WB to 15.5℃ WB, which adapts to many extreme conditions.



Note: 1.*For the unit capacity from 3HP to 6HP, the max. temperature under cooling mode is 46℃ DB; For the unit with single air fan, the min. temperature under heating mode is -15.5℃ WB.
2. The dry temperature range of heating operation mode is from -20℃ to 26℃.

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:

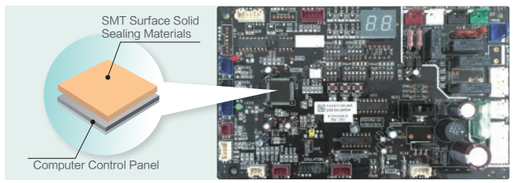
Epoxy resin composite substrate: double-sided printing, SMD welding, high strength, good weather resistance, great flame retardancy, high reliability, compact structure, small size.

Conventional PCB board:

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

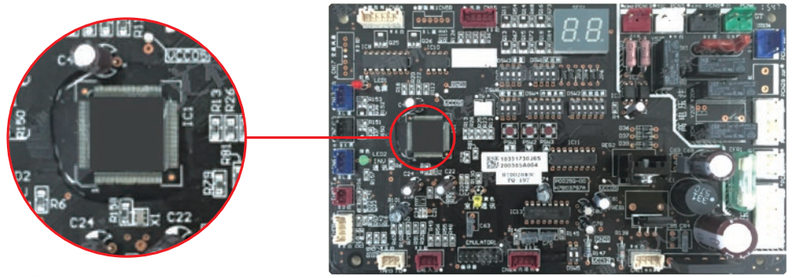
SMT Sealing Technology

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"

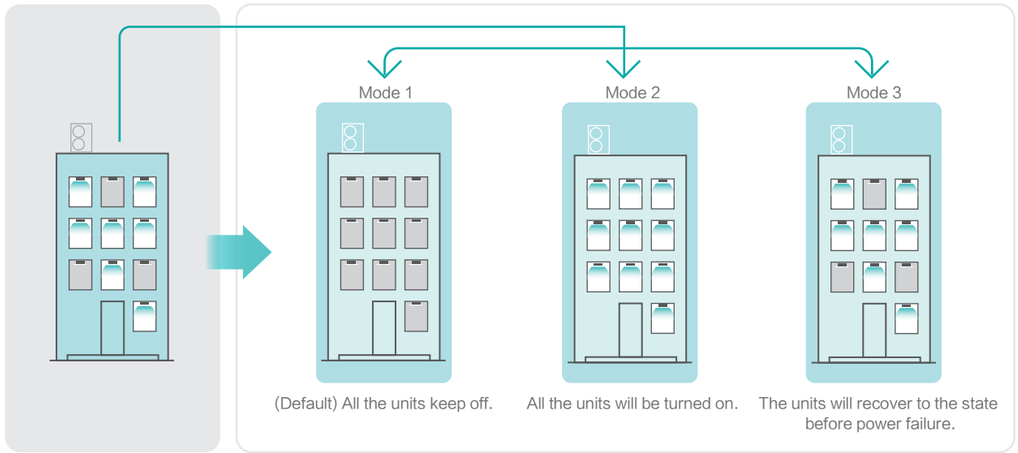
Both the main computer board and the wired controller of the outdoor unit can store error information so that the maintenance personnel can detect the operation information before the malfunction and determine the cause. It greatly simplify the maintenance.



Intelligent and Reliable Chip

Automatic Restart

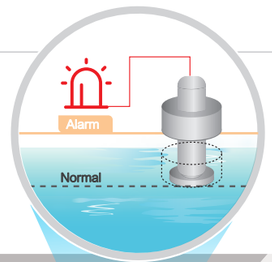
Hisense indoor units are capable to restart automatically to the previous state whenever the power supply is shut off suddenly and restores immediately. When there is long power shortage, the default setting is to keep all the indoor units off when the power restores. Also there are two other settings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

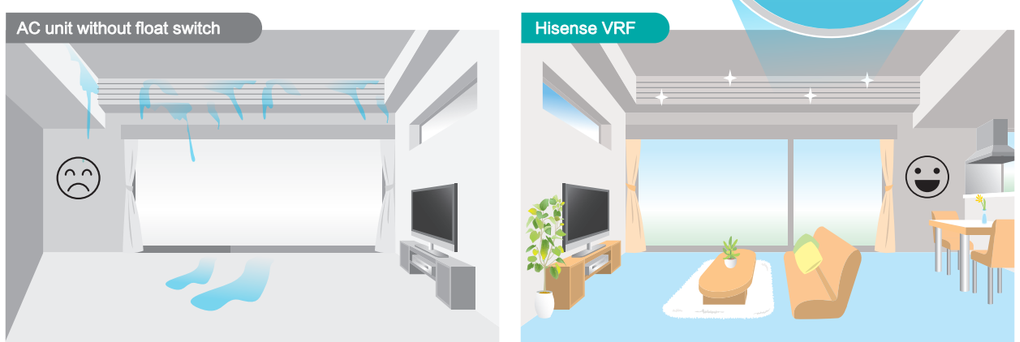


* DIP setting is necessary for mode 2 and mode 3.

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.





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

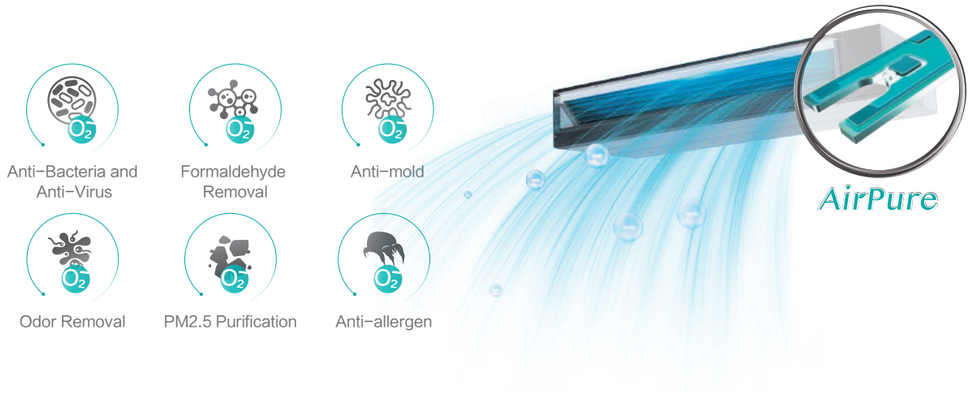
System Protection

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

ENHANCED COMFORT

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.



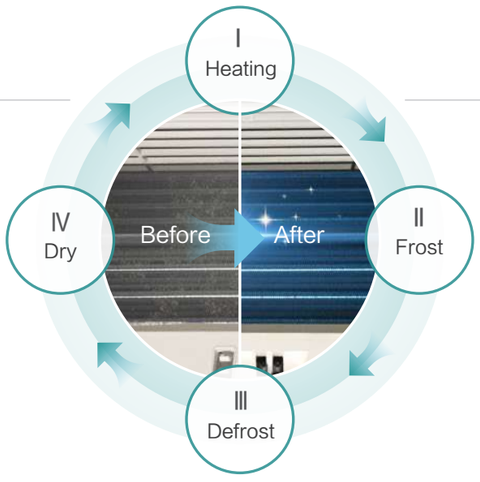
Note

The AirPure kit is standard for the new wall mounted unit which will be launched in the second half of 2021.

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.

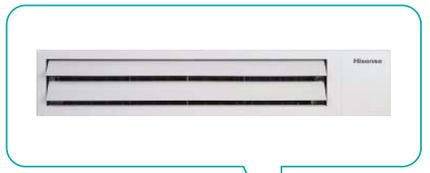
Note:
The self-cleaning function is available in the wall mounted unit and DC high ESP ceiling ducted unit(AVD-07~AVD-54).

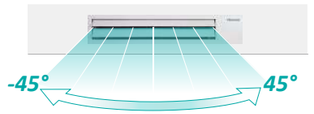


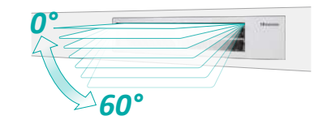
4 processes for deep cleaning

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.



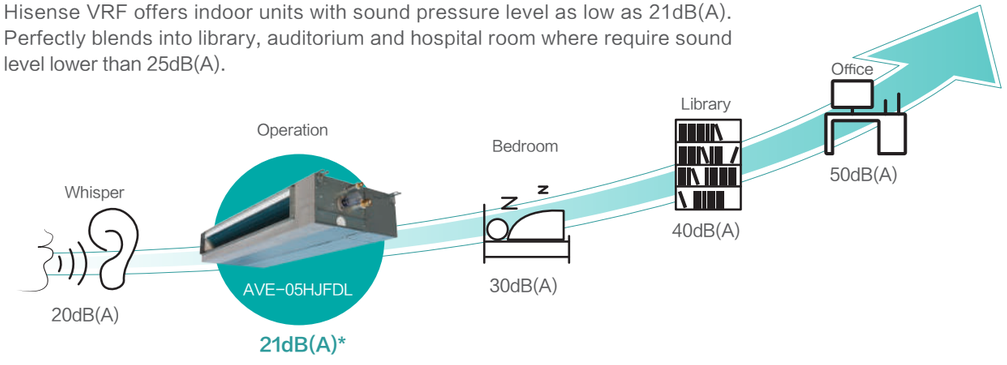




Indoor Unit Quiet Operation

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 the non-echo muffler room.

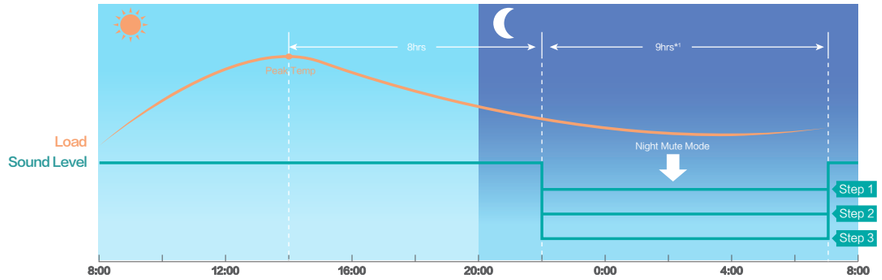
Effectively Eliminate Four Kinds of Noise

- 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 Control

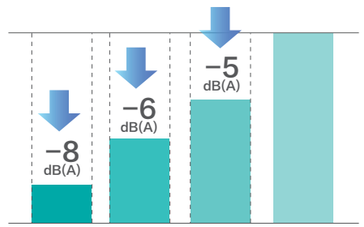
In gerneal, people are more sensitive to noise at night. Night quiet mode can be activated when necessary, and the noise can be reduced by up to 8dB(A).



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.

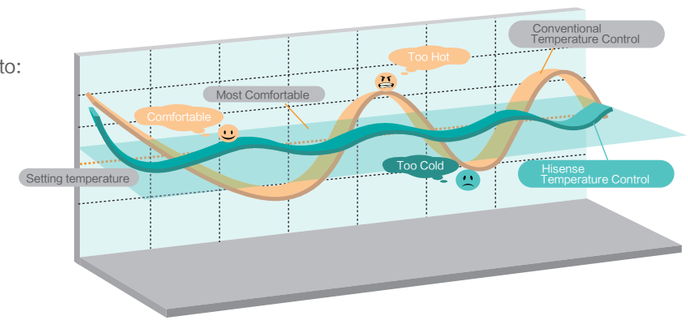
*Outlet air temp sensor
suitable for certain units

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

2000−step Electronic Expansion Valve

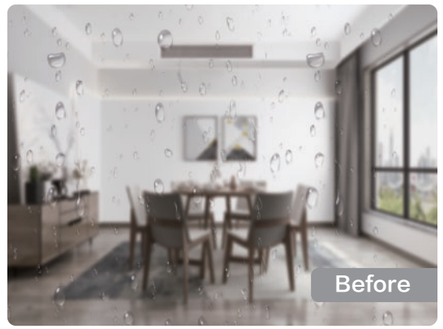
Precise indoor temperature according to:

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%.



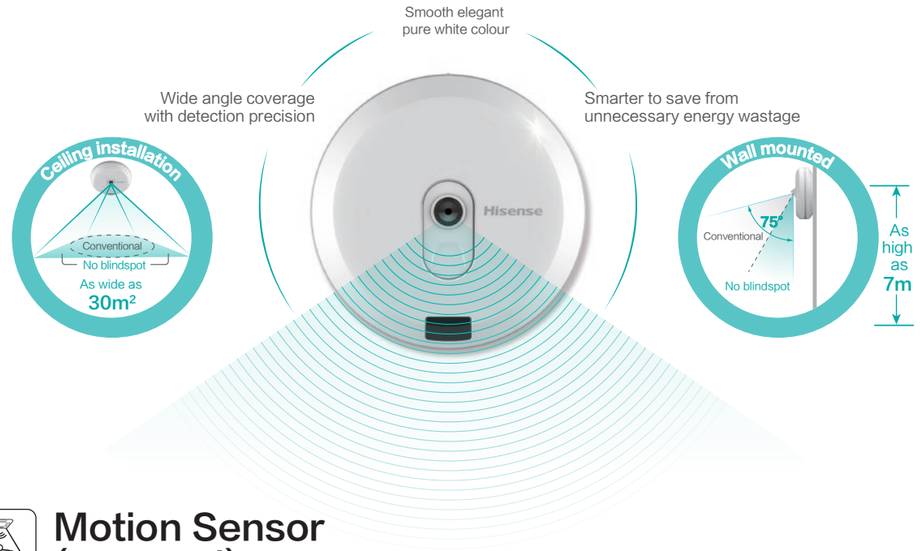
VIP Mode

Hisense VRF offers VIP mode to give priority to the specific room, keeping them comfortable and satisfied as fast as possible and 5 indoor units can be set as VIP mode at the same time. Such function is exclusively practical for hotel application, where air conditioners in the presidential suite are often set to VIP mode.

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.

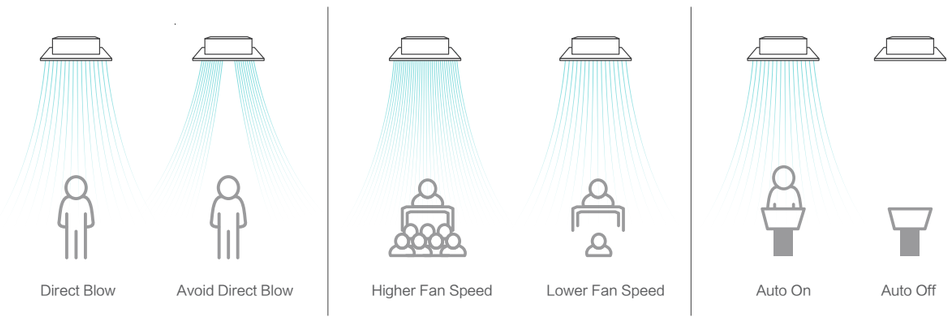
1) Automatically stops the unit when no one is in the room in order to realize energy saving.
2) Adjusting the setting temperature and air flow according to the actual human activity.



Motion Sensor (Optional)

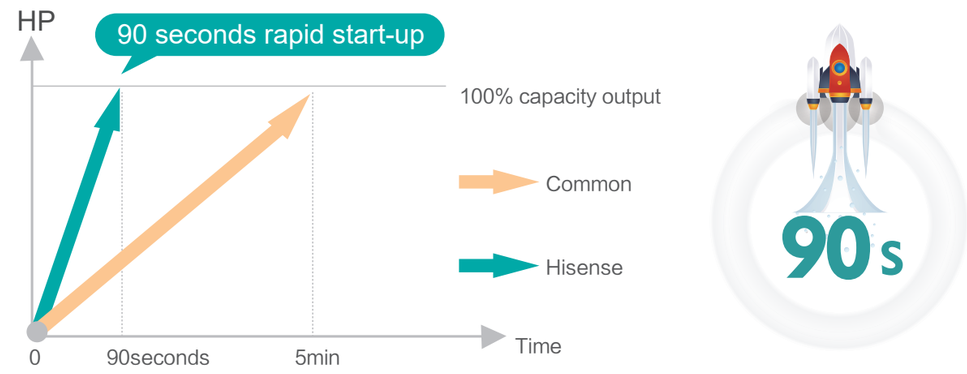
Motion Sensor, assembled in the panel of 4-Way Cassette and Mini 4-Way Cassette, can provide a more com-fortable environment, and achieve efficient and energy-saving operation of the unit at the same time.

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.



Rapid Heating Start-up

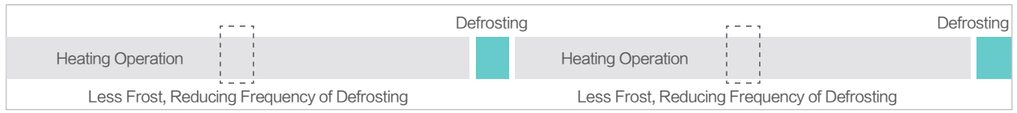
Combing the soft start of DC inverter compressor and rapid start of fixed speed compressor, the system can achieve 100% heating capacity output instantly to meet the air conditioning demand.



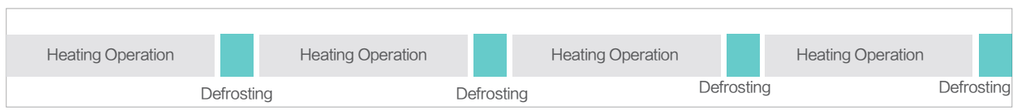
Intelligent Defrost

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



Ordinary Defrosting Mode

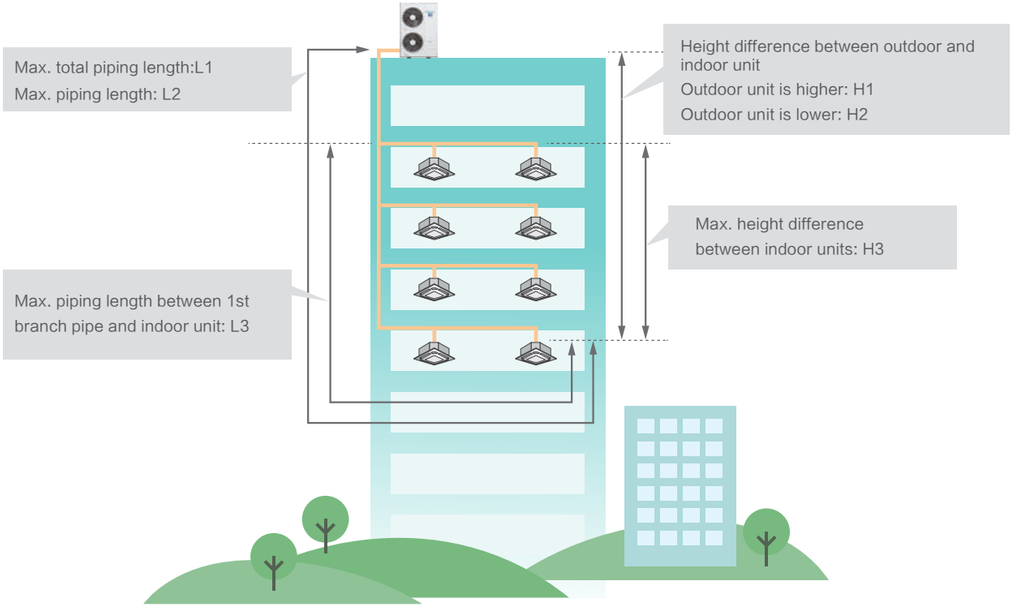


Convenient defrost mode only refers to time, ambient temperature and temperature detected on the heat exchanger, while Hisense adopts pressure defrost mode together with all above factors.

FLEXIBLE DESIGN AND INSTALLATION

Flexible Refrigerant Piping Work

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.

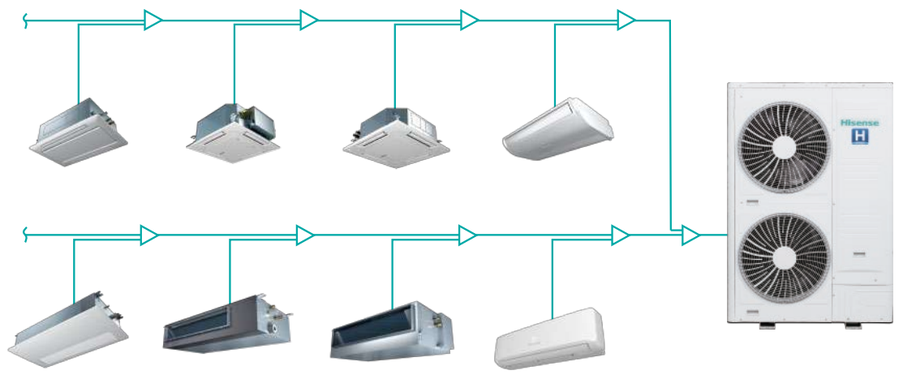


Power supply		AC 1Φ, 220–240V/ 50/60Hz			AC 1Φ, 220–240V/ 50/60Hz	AC 3Φ, 380–415V/ 50/60Hz	AC 3Φ, 380–415V/ 50/60Hz	AC 3Φ, 208/230V/ 60Hz
HP		3HP	4HP	5HP	4/5/6HP	8HP	10/12HP	8/10/12HP
Picture								
Max. total piping length L1		30	40	60	120	150	250	250
Max. piping length L2		25	25	50	75	100	100	100
Max. length between the first branch pipe and the farthest indoor unit L3		10	15	20	30	30	40	40
Height difference between ODU and IDU	Outdoor unit is higher H1	20	20	20	30	50	50	50
	Outdoor unit is lower H2	20	20	20	30	40	40	40
Height difference between IDUs H3		3.5	3.5	3.5	10	15	15	15

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.

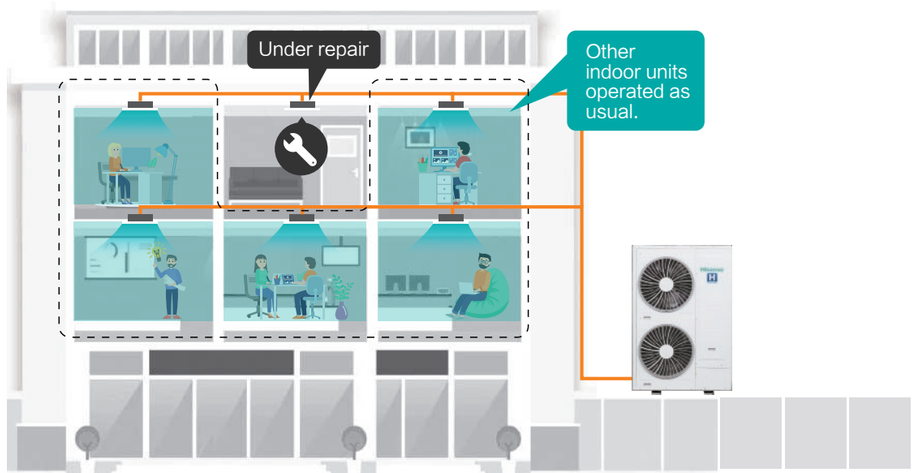


Compact Size and Light Weight

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.

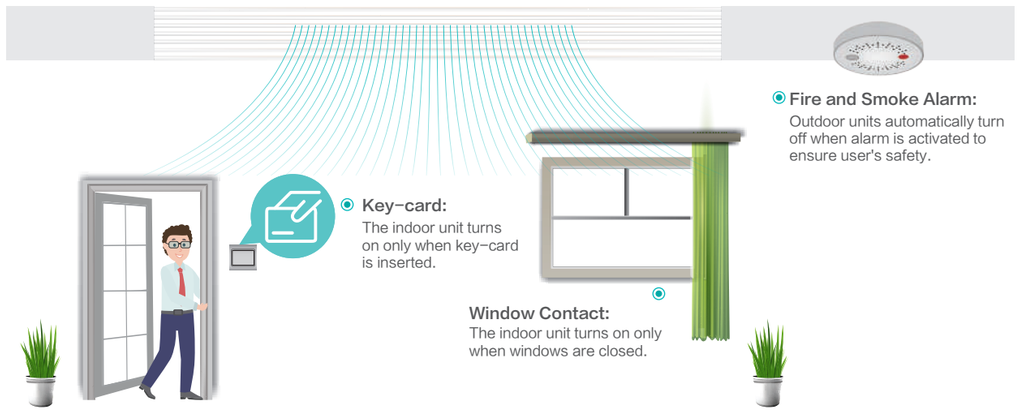
Independent Maintenance of Indoor Units

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

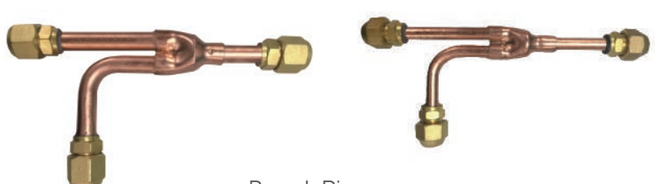
External input & output ports are reserved in indoor units and outdoor units for a wider choice of applications to control the air conditioning system. The key-card control, window contact control and any other third-party sensors or devices control can be available through setting in the indoor units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



Brazing Free Refrigerant Piping

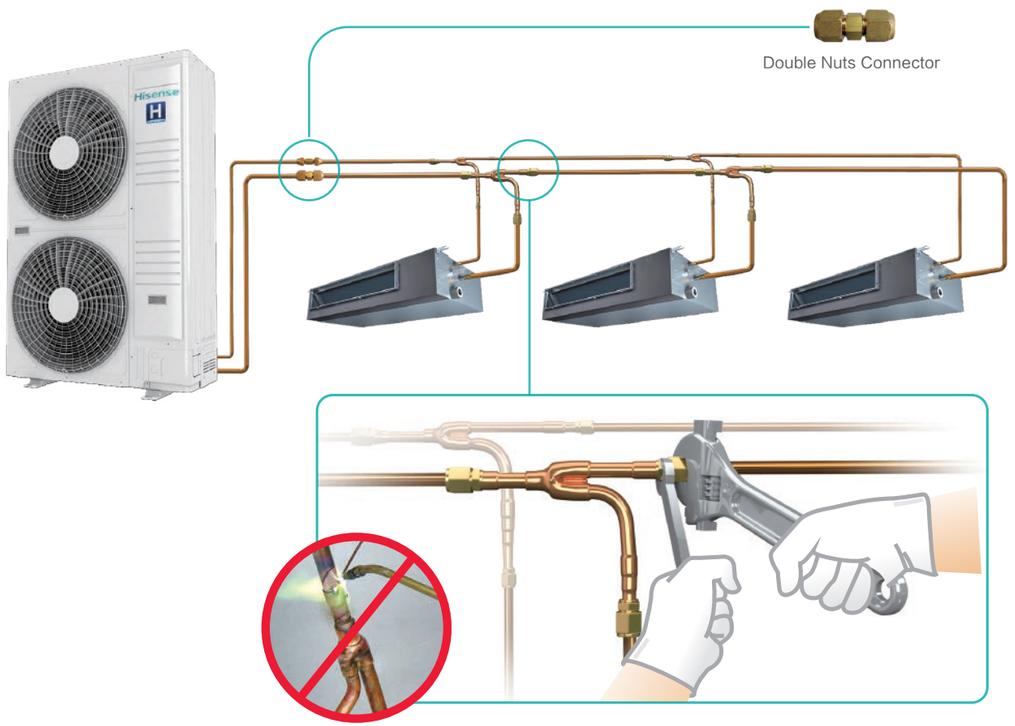
Hisense new refrigerant piping connection with flare-nut branch pipe breaks through the common way of connecting refrigerant copper pipes by replacing brazing processes with simple and safe flare nuts connections.

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



Branch Pipe

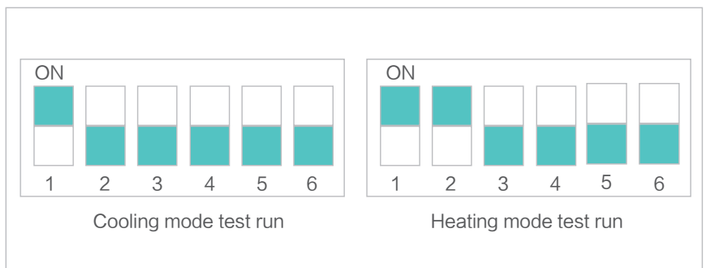
Note： suitable for ODU with Capacity of 6HP and less



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.

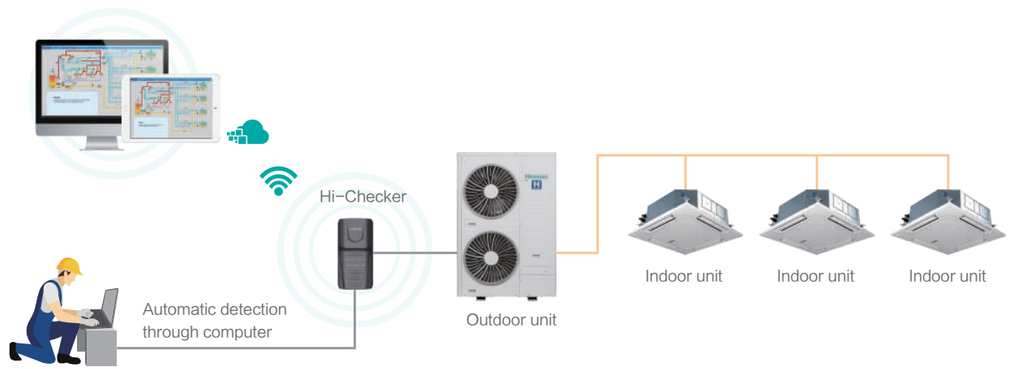
Test run through the wired controller



Test run through the ODU PCB

Hi-Checker

Exclusive 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.

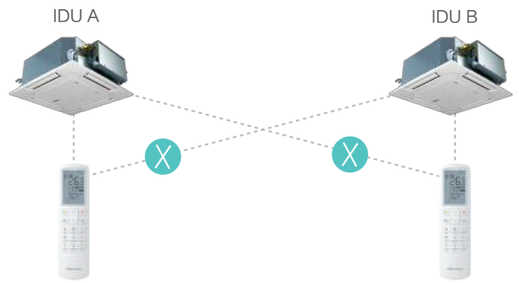


Fast Start
No Need Preheating for ODU

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

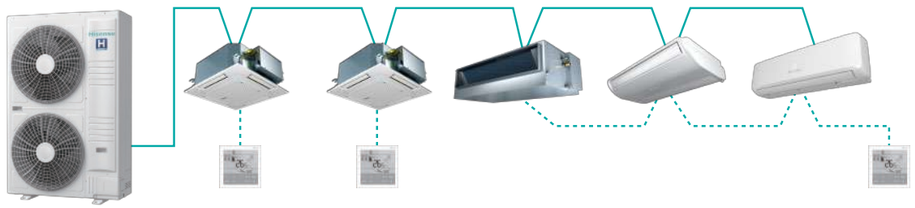
No Adjacent Interference

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

HP			3HP	4HP	5HP
	Model		AVW-28HJFH	AVW-34HJFH	AVW-43HJFH
	Power Supply		AC 1Φ, 220V-240V/50/60Hz		
Cooling	Capacity	kW	8.0	10.0	12.5
		kBtu/h	27.3	34.1	42.7
	Power Input	kW	1.93	2.43	2.98
	EER	kW/kW	4.15	4.27	4.19
Heating	Capacity	kW	9.5	11.2	14.0
		kBtu/h	32.4	38.2	47.8
	Power Input	kW	2.37	3.01	4.15
	COP	kW/kW	4.01	3.72	3.37
Ventilation	Air Flow Rate	m^3/min	46.5	69.0	78.0
Sound	Sound Pressure Level (Cooling/Heating)	dB(A)	50/52	53/55	54/57
Compressor	Type	–	Twin Rotary		
Refrigerant	Type	–	R410A	R410A	R410A
	Pre-charged Quantity	kg	2.5	2.8	2.8
Weight	Net Weight	kg	65	73	78
	Gross Weight	kg	74	83	88
Dimensions	External (HxWxD)	mm	800x950x370	800x950x370	800x950x370
	Packing(HxWxD)	mm	951x1070x515	951x1070x515	951x1070x515
Cabinet Color			Ivory White	Ivory White	Ivory White
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88
		inch	5/8	5/8	5/8
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53
		inch	3/8	3/8	3/8
Connectable Indoor Units	Quantity	pcs	5	6	8
	Total Capacity	–	50%-125%	50%-125%	50%-125%
Piping Design	Height Difference Between ODU and IDU	m	20	20	20
		m	20	20	20
	Height Difference Between IDUs	m	3.5	3.5	3.5
	Max. Piping Length	m	25	25	50
Operation Range	Cooling	DB	-5℃~46℃	-5℃~46℃	-5℃~46℃
	Heating	WB	-15℃~15.5℃	-15℃~15.5℃	-15℃~15.5℃

Notes:

Rated cooling capacity and rated heating capacity are tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m

Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m

Specifications

HP			4HP	5HP	6HP
	Model		AVW-38HJFH	AVW-48HJFH	AVW-54HJFH
	Power Supply		AC 1Φ, 220V-240V/50/60Hz		
Cooling	Capacity	kW	11.2	14.0	15.5
		kBtu/h	38.2	47.8	52.9
	Power Input	kW	2.60	3.46	4.21
	EER	kW/kW	4.31	4.05	3.68
Heating	Capacity	kW	12.5	16.0	18.0
		kBtu/h	42.7	54.6	61.4
	Power Input	kW	2.78	3.71	4.47
	COP	kW/kW	4.50	4.31	4.03
Ventilation	Air Flow Rate	m^3/min	90.0	90.0	100.0
Sound	Sound Pressure Level (Cooling/Heating)	dB(A)	50/52	52/54	53/55
Compressor	Type	–	Twin Rotary		
Refrigerant	Type	–	R410A	R410A	R410A
	Pre-charged Quantity	kg	3.8	3.8	4.1
Weight	Net Weight	kg	93	95	97
	Gross Weight	kg	112	112	112
Dimensions	External (HxWxD)	mm	1380x950x370	1380x950x370	1380x950x370
	Packing(HxWxD)	mm	1531x1070x515	1531x1070x515	1531x1070x515
Cabinet Color			Ivory White	Ivory White	Ivory White
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88
		inch	5/8	5/8	5/8
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53
		inch	3/8	3/8	3/8
Connectable Indoor Units	Quantity	pcs	9	11	11
	Total Capacity	–	50%-150%	50%-150%	50%-150%
Piping Design	Height Difference Between ODU and IDU	m	30	30	30
		m	30	30	30
	Height Difference Between IDUs	m	10	10	10
	Max. Piping Length	m	75	75	75
Operation Range	Cooling	DB	-5℃~46℃	-5℃~46℃	-5℃~46℃
	Heating	WB	-20℃~15.5℃	-20℃~15.5℃	-20℃~15.5℃

Notes:

Rated cooling capacity and rated heating capacity are tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m

Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m

Specifications

HP			8HP	10HP	12HP	8HP	10HP	12HP
	Model		AVW-76HKFH1	AVW-96HKFH1	AVW-114HKFH1	AVW-76HFFH	AVW-96HFFH	AVW-114HFFH
	Power Supply		AC 3Φ, 380V~415V/50/60Hz			AC 3Φ, 208/230V/60Hz		
Cooling	Capacity	kW	22.4	28.0	33.5	22.4	28.0	33.5
		kBtu/h	76.5	95.6	114.3	76.5	95.6	114.0
	Power Input	kW	6.37	7.75	10.30	6.30	8.30	10.70
	SEER	kW/kW	6.62	6.85	6.29	–	–	–
	EER	kW/kW	3.52	3.61	3.25	3.56	3.37	3.13
Heating	Capacity	kW	25.0	31.5	37.5	25.0	31.5	37.5
		kBtu/h	85.3	107.5	128	85.3	107.5	128.0
	Power Input	kW	5.84	7.00	10.00	5.90	7.80	9.90
	SCOP	kW/kW	4.10	4.21	3.98	–	–	–
	COP	kW/kW	4.28	4.50	3.75	4.24	4.04	3.79
Ventilation	Air Flow Rate	m^3/min	127.0	150.0	163.0	121.0	150.0	163.0
Sound	Sound Pressure Level (Cooling/Heating)	dB(A)	57/58	58/59	59/60	53/55	56/58	56/61
Compressor	Type	–	Twin Rotary			Scroll		
Refrigerant	Type	–	R410A	R410A	R410A	R410A	R410A	R410A
	Pre-charged Quantity	kg	5.63	5.50	6.50	5.0	5.5	6.5
Weight	Net Weight	kg	124	145	158	162	168	171
	Gross Weight	kg	139	161	175	185	188	189
Dimensions	External (HxWxD)	mm	1380x950x370	1650x1100x390	1650x1100x390	1650x1100x390	1650x1100x390	1650x1100x390
	Packing(HxWxD)	mm	1531x1070x515	1806x1185x530	1806x1185x530	1806x1185x530	1806x1185x530	1806x1185x530
Cabinet Color			Ivory White	Ivory White	Ivory White	Ivory White	Ivory White	Ivory White
Ref. Piping	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ19.05	Φ22.20	Φ25.40
		inch	3/4	7/8	1	3/4	7/8	1
	Liquid	mm	Φ9.53	Φ12.7	Φ12.7	Φ9.53	Φ12.70	Φ12.70
		inch	3/8	1/2	1/2	3/8	1/2	1/2
Connectable Indoor Units	Quantity	pcs	15	17	19	10	10	10
	Total Capacity	–	50%~150%	50%~150%	50%~150%	50%~150%	50%~150%	50%~150%
Piping Design	Height Difference Between ODU and IDU	m	50	50	50	50	50	50
		m	40	40	40	40	40	40
	Height Difference Between IDUs	m	15	15	15	15	15	15
	Max. Piping Length	m	100	100	100	100	100	100
	Total Piping Length	m	150	250	250	–	–	–
Operation Range	Cooling	DB	-5℃~50℃	-5℃~50℃	-5℃~50℃	-5℃~46℃	-5℃~46℃	-5℃~46℃
	Heating	WB	-20℃~15.5℃	-20℃~15.5℃	-20℃~15.5℃	-20℃~15.5℃	-20℃~15.5℃	-20℃~15.5℃

Notes:

Rated cooling capacity and rated heating capacity are tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m

Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m

INDOOR UNIT

Indoor Unit Line-up

HP		0.6	0.8	1.0	1.3	1.5	1.6	1.8	1.9	2.0	2.3	2.5	3.0	3.3	4.0	5.0	6.0	8.0	10.0
kBtu/h		5	7	9	12	14	15	17	18	19	22	24	27	30	38	48	54	76	96
4-Way Cassette Type				●	●		●			●	●	●	●	●	●	●	●		
Mini 4-Way Cassette Type		●	●	●	●		●	●		●									
1-Way Cassette Type			●	●	●	●			●			●							
2-Way Cassette Type			●	●	●	●			●			●	●	●	●	●	●		
Console Type		●	●	●	●		●	●											
Ceiling Ducted Type (AC Low-height)		●	●	●	●		●	●		●	●	●							
Ceiling Ducted Type (DC Low-height)		●	●	●	●		●	●		●	●	●							
Ceiling Ducted Type (DC High Static Pressure)			●	●	●		●			●		●		●	●	●	●	●	●
Ceiling Ducted Type (High Static Pressure)			●	●	●		●			●	●	●	●	●	●	●	●	●	●
Ceiling Ducted Type (Low Static Pressure)			●	●	●		●			●	●	●	●	●	●	●	●	●	●
Wall Mounted Type		●	●	●	●		●		●			●	●						
Ceiling & Floor Type								●	●		●	●	●	●	●	●			
Floor Concealed Type				●		●			●			●							

Note: More specific capacity information, please see the introduction of each indoor unit.

Indoor Unit Feature Overview

Type	Accessories								
	Drain Pump (built-in)	3D Airflow Panel	Filter	Humidity Sensor	AirPure Kit	Motion Sensor	Hi-Motion	Outlet Air Temp Sensor	Float Switch
4-Way Cassette Type	●	×	●	○	○	○	○	●	●
Mini 4-Way Cassette Type	●	×	●	○	○	○	○	×	●
1-Way Cassette Type	●	×	●	×	×	×	○	●	●
2-Way Cassette Type	●	×	●	×	×	×	○	●	●
Console Type	×	×	●	○	×	×	○	×	×
Ceiling Ducted Type (AC Low-height)	●	○	●	○	○	×	○	×	●
Ceiling Ducted Type (DC Low-height)	●	○	●	○	○	×	○	×	●
Ceiling Ducted Type(DC High Static Pressure) AVD-07~AVD-54	○	×	●	○	○	×	○	●	●
Ceiling Ducted Type(DC High Static Pressure) AVD-76 & AVD-96	○	×	○	○	○	×	○	●	●
Ceiling Ducted Type (High Static Pressure) AVD-07~AVD-54	○	×	●	○	○	×	○	×	●
Ceiling Ducted Type (High Static Pressure) AVD-76 & AVD-96	×	×	○	×	×	×	○	●	●
Ceiling Ducted Type (Low Static Pressure) AVD-07~AVD-54	○	×	●	○	○	×	○	×	●
Ceiling Ducted Type (Low Static Pressure) AVD-76 & AVD-96	×	×	○	×	×	×	○	●	●
Wall Mounted Type	×	×	●	○	×	×	○	●	×
Ceiling & Floor Type	×	×	●	×	×	×	○	●	×
Floor Concealed Type	×	×	×	×	×	×	○	●	×

Remarks: Standard: ● Optional: ○ Incompatible: ×

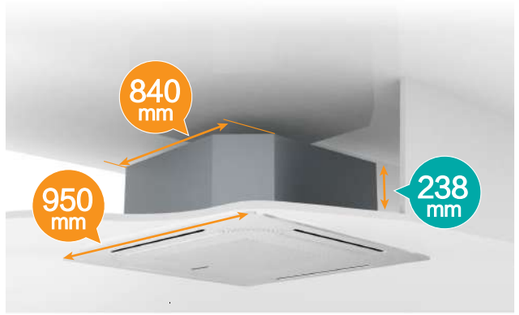
Type	Features										
	Dry Contact Input	Windows Linkage	Dry Contact Output	Fresh Air Intake	Sleep	Quiet	ECO	Individual Louver Control	Breeze Mode	Self Cleaning	Auto Fan Speed
4-Way Cassette Type	●	×	●	●	●	●	●	●	●	×	×
Mini 4-Way Cassette Type	●	×	●	●	●	●	●	●	●	×	×
1-Way Cassette Type	●	×	●	●	●	●	●	×	×	×	●
2-Way Cassette Type	●	×	●	●	●	×	×	●	×	×	●
Console Type	●	×	●	●	●	●	●	×	×	×	×
Ceiling Ducted Type (AC Low-height)	●	●	●	●	●	●	●	×	×	×	×
Ceiling Ducted Type (DC Low-height)	●	●	●	●	●	●	●	×	×	×	×
Ceiling Ducted Type (DC High Static Pressure) AVD-07~AVD-54	●	●	●	●	●	●	●	×	×	●	●
Ceiling Ducted Type (DC High Static Pressure) AVD-76 & AVD-96	●	●	●	×	●	●	●	×	×	×	●
Ceiling Ducted Type (High Static Pressure) AVD-07~AVD-54	●	●	●	●	×	×	●	×	×	×	×
Ceiling Ducted Type (High Static Pressure) AVD-76 & AVD-96	●	×	●	×	●	×	●	×	×	×	×
Ceiling Ducted Type (Low Static Pressure) AVD-07~AVD-54	●	●	●	●	×	×	●	×	×	×	×
Ceiling Ducted Type (Low Static Pressure) AVD-76 & AVD-96	●	×	●	×	●	×	●	×	×	×	×
Wall Mounted Type	●	●	●	×	●	●	●	×	×	●	●
Ceiling & Floor Type	●	×	●	×	×	×	×	×	×	×	×
Floor Concealed Type	●	×	●	×	●	●	●	×	×	×	●

Remarks: Standard: ● Optional: ○ Incompatible: ×

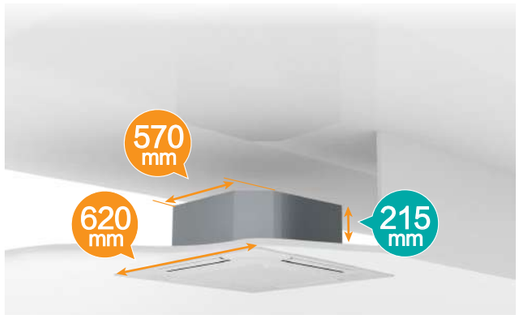
4–Way Cassette Type
Mini 4–Way Cassette Type

Compact and Classy Design

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



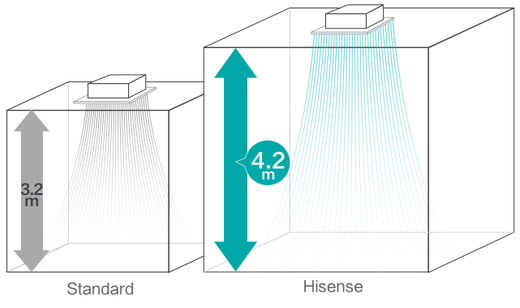
4–Way Cassette Type



Mini 4–way Cassette Type

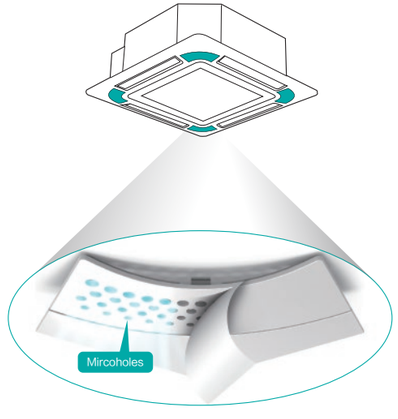
Higher Installation

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



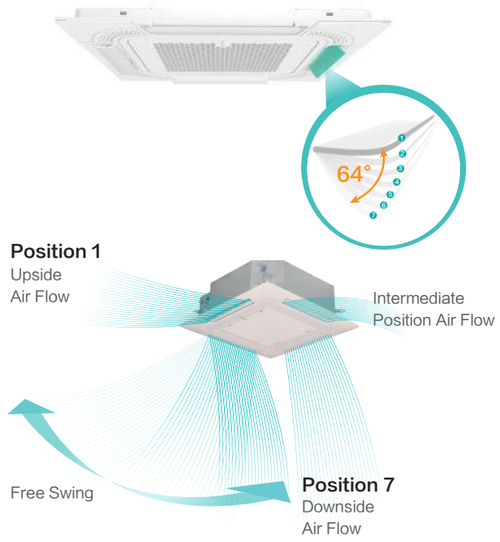
Breeze Mode

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 comfort–able airflow.



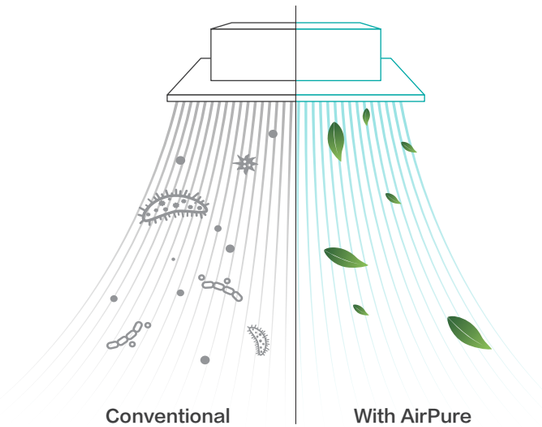
Individual Louvers Control

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 set–tings and maximum angle reach at 64° .



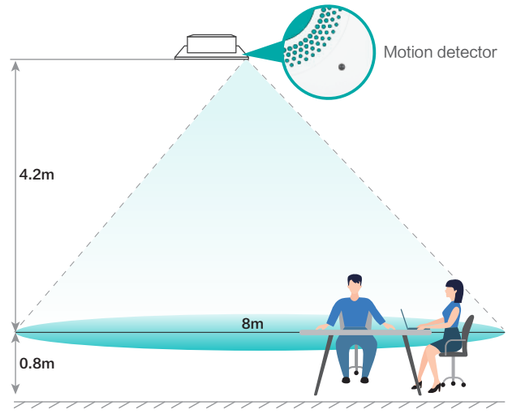
AirPure

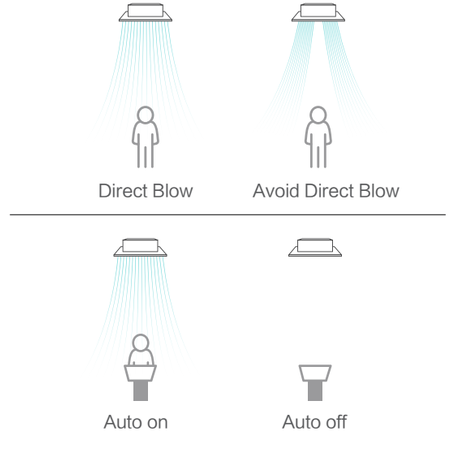
AirPure is a healthy alternative accessory to the normal conventional cassette unit to improve overall air quality. Airpure helps in improving skin condition, effective de–odorizer and deactivating bacterias, virus and allergens floating in the air.



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 depends on settings of controller. During crowded times, the setting temperature is auto–matically lowered down and vise versa, which can provide 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.

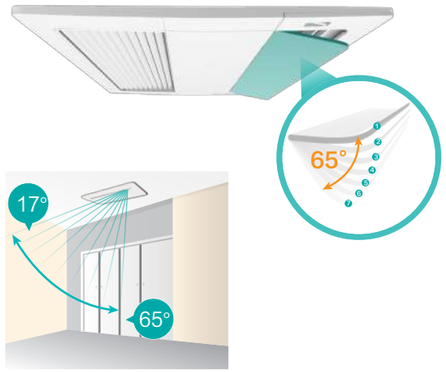
1-Way Cassette Type

Chic Aesthetics

Inspired from ceiling concealed ducted units and inte-grated 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 applica-tions.

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 commis-sioning.

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

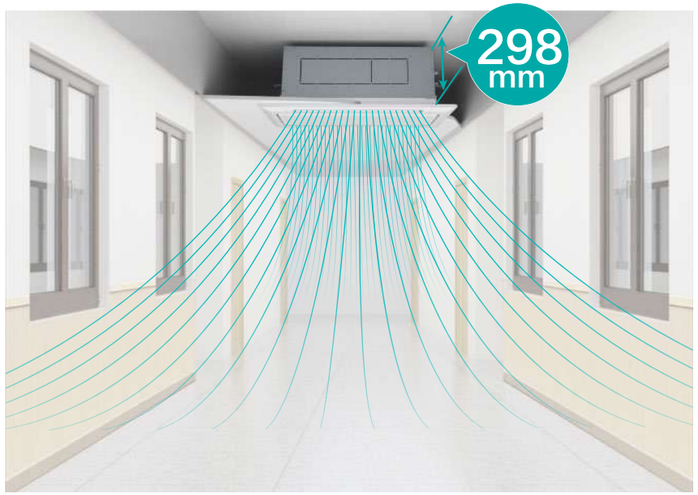
Notes:

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

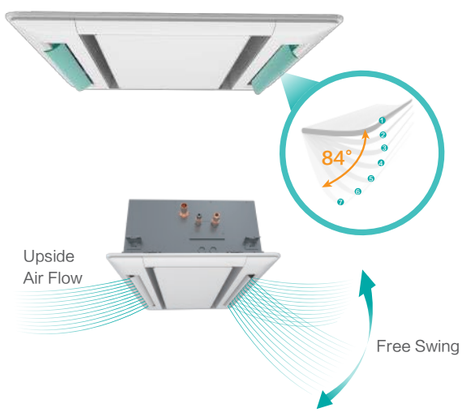
Compact and Classy Design

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.



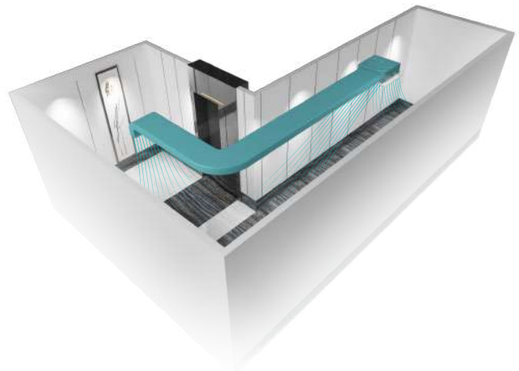
Independent Louvers Control

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 awk-ward corners without additional indoor units.



Model			AVL-07 UXJSGA	AVL-09 UXJSGA	AVL-12 UXJSGA	AVL-14 UXJSGA	AVL-18 UXJSGA	AVL-24 UXJSGA	AVL-27 UXJSGA	AVL-30 UXJSGA	AVL-38 UXJSHA	AVL-48 UXJSHA	AVL-54 UXJSHA
Power Supply			AC 1Φ, 220~240V/50Hz/60Hz										
Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0
		Btu/h	7,500	9,600	12,300	14,700	19,100	24,200	28,700	30,700	38,200	47,800	54,600
	Heating	kW	2.8	3.3	4.0	4.9	6.5	8.0	9.0	10.0	13.0	16.0	18.0
		Btu/h	9,600	11,300	13,600	16,700	22,200	27,300	30,700	34,100	44,400	54,600	61,400
Power Input	Cooling	W	14	14	14	24	34	44	64	74	84	104	114
	Heating	W	14	14	14	24	34	44	64	74	84	104	114
Sound Pressure		dB(A)	32/30/ 29/27	33/30/ 29/28	34/31/ 30/28	40/37/ 34/32	42/39/ 36/33	45/42/ 40/36	47/44/ 40/36	49/46/ 42/37	46/44/ 40/38	48/45/ 42/38	49/46/ 43/40
Airflow Rate		m^3/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

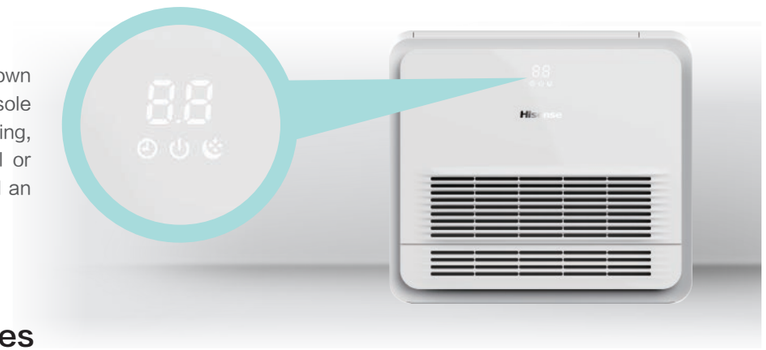
Notes:

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

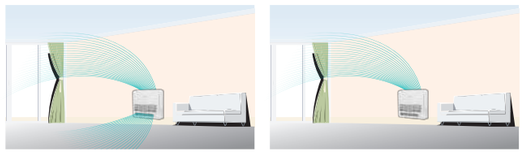
With smooth white cover, LED shown and temperature display, the console unit is an super stylish air-conditioning, which is suitable for the residential or commercial applications which need an unit installed on or close to the floor.



Multiple Blowing Types

Cooling Mode

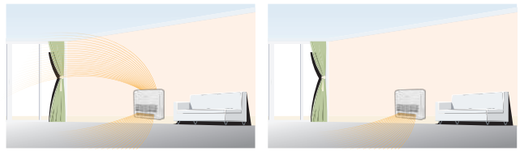
The unit adopts the stereo cooling mode that can reach the setting temperature rapidly.



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

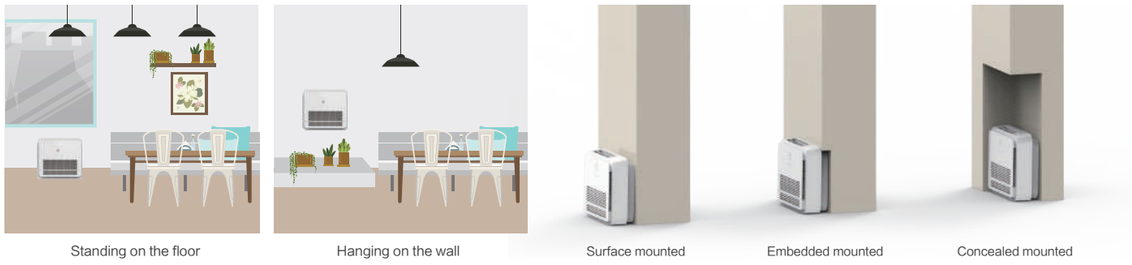
Air supply through the below louver achieves floor heating effect and increases the comfortability.



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

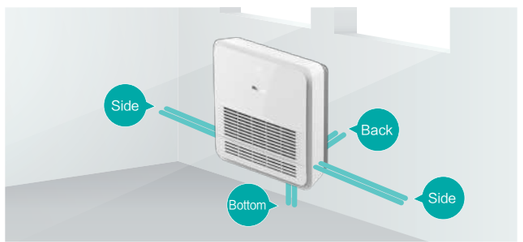
The unit can stand directly on the floor, or be hanged on the wall.
According to the interior decoration style, the machine can choose surface mounted, embedded mounted, concealed mounted.



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.

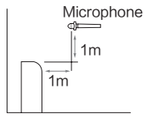


Model				AVK-05HJFCAA	AVK-07HJFCAA	AVK-09HJFCAA	AVK-12HJFCAA	AVK-15HJFCAA	AVK-17HJFCAA
Power Supply				AC 1Φ, 220V~240V/50Hz/60Hz					
Capacity	Cooling		kW	1.5	2.2	2.8	3.6	4.5	5.0
			Btu/h	5,100	7,500	9,600	12,300	15,300	17,000
	Heating		kW	2.0	2.5	3.3	4.2	5.0	5.6
			Btu/h	6,800	8,500	11,200	14,300	17,000	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			m^3/min	6.0/5.7/5.3/ 5.1/4.7/4.5	7.4/7.0/6.4/ 6.0/5.6/5.3	8.0/7.4/7.0/ 6.4/6.0/5.6	8.2/7.6/6.8/ 6.2/5.7/5.3	9.0/8.5/7.8/ 7.2/6.6/6.4	10.1/9.7/9.0/ 8.5/7.9/7.3
Panel Colour			-	Pure White	Pure White	Pure White	Pure White	Pure White	Pure White
Piping	Connection Type		-	Flare-nut Connection(with Flare Nuts)					
	Liquid		mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35
			inch	1/4	1/4	1/4	1/4	1/4	1/4
	Gas		mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7
			inch	1/2	1/2	1/2	1/2	1/2	1/2
	Condensate Drain		mm	O.D.18					
Weight	Net Weight		kg	16.1	16.1	16.1	17.4	17.4	17.4
	Gross Weight		kg	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)

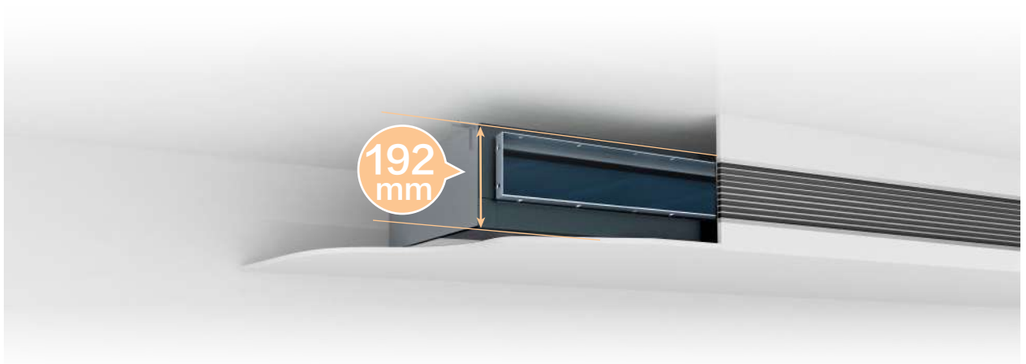
2. The sound pressure level is based on following conditions:
   It is measured in anechoic room. Operation noise differs with operation and ambient conditions.
   Location of Microphone:



Ceiling Ducted Type (AC/DC Low Height)

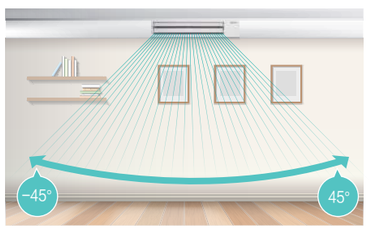
Space Saving

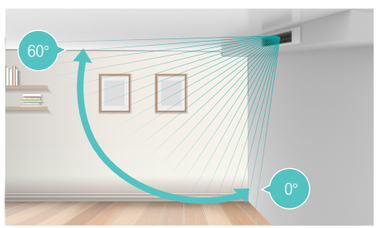
Concealed AC/DC Low Height Ducted unit is as slim as 192mm, fitting into the narrowest ceiling spaces. Save ceiling spaces for higher room height without compromising user's comfort and satisfaction.

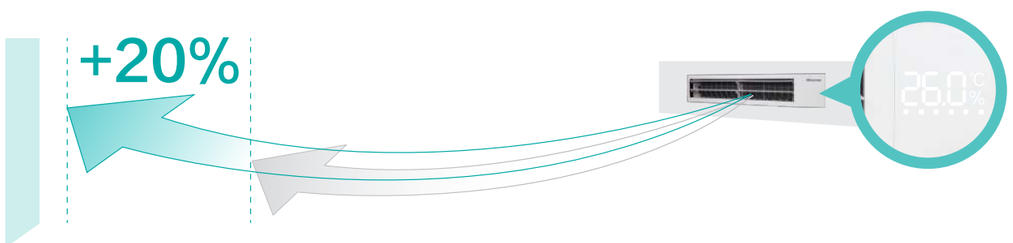


3D Air Flow

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

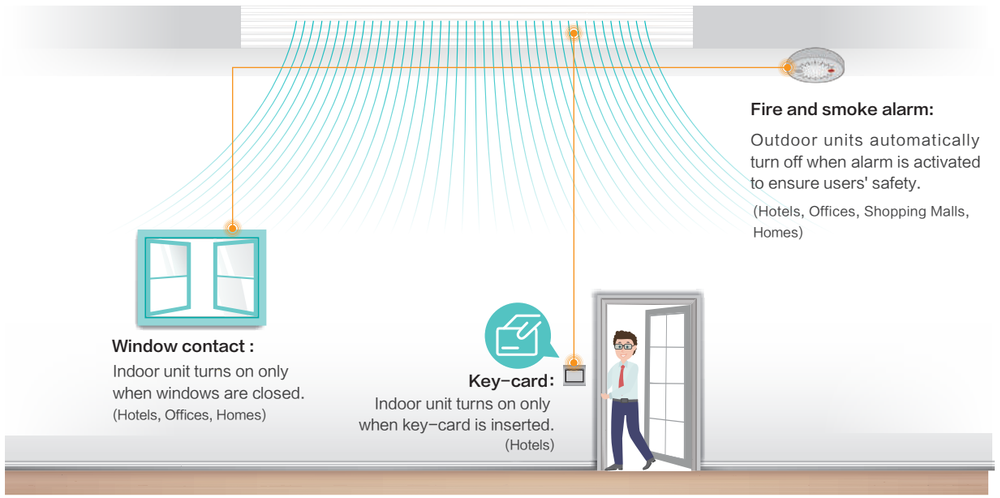
To prevent the human height area of the room cools or warms to user's ideal temperature setting. Two Temperature Sensor Control Technology is integrated into the unit whereby the controller, and return section consist of built in temperature sensors to send real-time signals to the unit for a more precise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

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)

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		m^3/min	7/5.5/4.7	7/5.5/4.7	9/5.7/4.8	9/5.7/4.8	12/6.3/5.5	12/6.3/5.5	13.5/8/7.7	18/9.3/8.7	18/9.3/8.7
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)								
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53
		inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8
	Gas	mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88	Φ 15.88
		inch	1/2	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	Condensate Drain	mm	I.D.32								
Weight	Net Weight	kg	16	16	17	17	21	21	25	26	26
	Gross Weight	kg	19	19	20	20	24	24	29	29	29
Dimensions	External	H mm	192	192	192	192	192	192	192	192	192
		W mm	700	700	700	700	910	910	1180	1180	1180
		D mm	447	447	447	447	447	447	447	447	447
	Packaging	H mm	270	270	270	270	270	270	270	270	270
		W mm	925	925	925	925	1136	1136	1406	1406	1406
		D mm	574	574	574	574	574	574	574	574	574

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ 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		m^3/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	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53
		inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8
	Gas	mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88	Φ 15.88
		inch	1/2	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	Condensate Drain	mm	I.D.32								
Weight	Net Weight	kg	16	16	17	17	20	20	24	24	24
	Gross Weight	kg	19	19	20	20	24	24	29	29	29
Dimensions	External	H mm	192	192	192	192	192	192	192	192	192
		W mm	700	700	700	700	910	910	1180	1180	1180
		D mm	447	447	447	447	447	447	447	447	447
	Packaging	H mm	270	270	270	270	270	270	270	270	270
		W mm	925	925	925	925	1136	1136	1406	1406	1406
		D mm	574	574	574	574	574	574	574	574	574

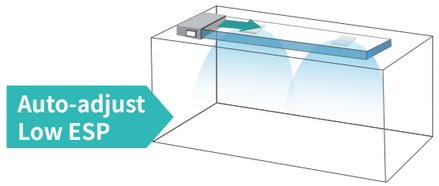
Notes:

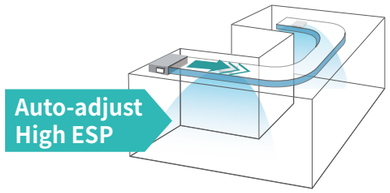
1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB(80°F DB), 19.0℃ WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating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

Auto-adjust External Static Pressure

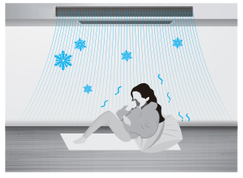
After installation, the actual duct resistance frequently differ from the initially calculated, causing the actual air flow too low or too high. The auto-adjust ESP function can effectively solve this problem. At the initial commission, the system can automatically select the most appropriate ESP value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

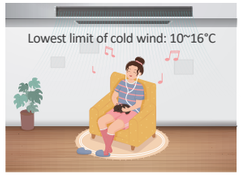




Cold Wind Limit Setting

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



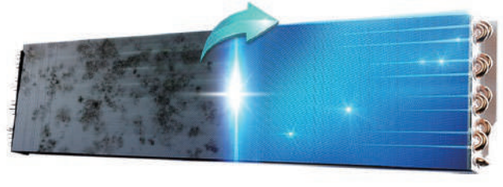


New Improved Bendable Filters

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

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

Model				AVD-07 HJFH	AVD-09 HJFH	AVD-12 HJFH	AVD-15 HJFH	AVD-19 HJFH	AVD-24 HJFH	AVD-24 HJFH1	AVD-30 HJFH	AVD-38 HJFH	AVD-48 HJFH	AVD-54 HJFH	AVD-76 HJFH	AVD-96 HJFH
Power Supply				AC 1Φ, 220V~240V/50Hz/60Hz												
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	7.1	7.1	9.0	11.2	14.0	16.0	22.4	28.0
			Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	24,200	30,800	38,000	48,000	54,500	76,500	95,600
	Heating		kW	2.5	3.2	4.0	4.6	6.3	8.0	8.0	10.0	12.5	16.0	18.0	25.0	31.5
			Btu/h	8,500	10,900	13,700	17,100	21,600	27,400	27,400	34,200	42,500	54,500	61,500	85,300	107,500
Power Input	Cooling		W	40	40	55	55	55	82	74	100	132	180	223	610	830
	Heating		W	40	40	55	55	55	82	74	100	132	180	223	610	830
Sound Pressure Level			dB(A)	30/27/23/ 21/20/19	30/27/23/ 21/20/19	35/33/32/ 28/26/24	35/33/32/ 28/26/24	33/30/27/ 25/23/22	36/34/31/ 28/24/22	33/31/28/ 25/23/21	34/32/30/ 28/25/22	37/35/31/ 29/26/23	38/36/34/ 31/29/26	41/38/35/ 33/30/27	49/48/47/ 46/45/44	53/52/50/ 49/47/45
Airflow Rate			m^3/min	9/8/6.8/ 6.3/5.8/5.3	9/8/6.8/ 6.3/5.8/5.3	12/11/10/ 9/8/7.2	12/11/10/ 9/8/7.2	14.5/13/11.5/ 10.5/9.5/8.7	19/17/15/ 13/11/9.5	20.6/19/17/ 15/13.8/12.5	25/23/21/ 19/17/15	28/25/23/ 21/19/17	35.5/32.5/29.5/ 26.5/23.5/20.5	39/35.5/31/ 26.5/23.5/21.8	57/54/52/ 51/49/48	72/68/65/ 61/58/50
External Static Pressure			Pa	30 (30/40/50/60/70/80/90/100/110/120/130/140/150)						50 (50/60/70/80/90/100/110/120/130/140/150/160/170/180/190/200)					150(50~250)	150(50~250)
Piping	Connection Type		–	Flare-Nut Connection(With Flare Nut)											Brazing	
	Liquid		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
			inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ22.2 (Φ19.05*1)	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	7/8 (3/4*1)	7/8
	Condensate Drain		–	I.D. 32												
Weight	Net Weight		kg	23	23	24	24	30	30	40	40	40	49	49	104	104
	Gross Weight		kg	29	29	29	29	37	37	48	48	48	57	57	125	125
Dimensions	External	H	mm	270	270	270	270	270	270	300	300	300	300	300	470	470
		W	mm	650+75	650+75	650+75	650+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1250	1250
		D	mm	720	720	720	720	720	720	800	800	800	800	800	1120	1120
	Packing	H	mm	385	385	385	385	385	385	415	415	415	415	415	546	546
		W	mm	895	895	895	895	1140	1140	1345	1345	1345	1640	1640	1466	1466
		D	mm	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°C DB(80°F DB), 19.0°C WB(66.2°F WB)
   Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20°C DB(68°F DB).
   Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
2. The sound pressure level is based on following conditions.
   1.5m below the unit; With 2.0m discharge duct and 1.0m return duct
   The above data were measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. *1: The size of AVD-76* series gas pipe is Φ22.2mm when leaving the factory, and the diameter can be changed to 19.05mm after welding the adapter pipe.

Ceiling Ducted Type (High/Low Static Pressure)

Flexible Air Duct Layout

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

New Improved Bendable Filters

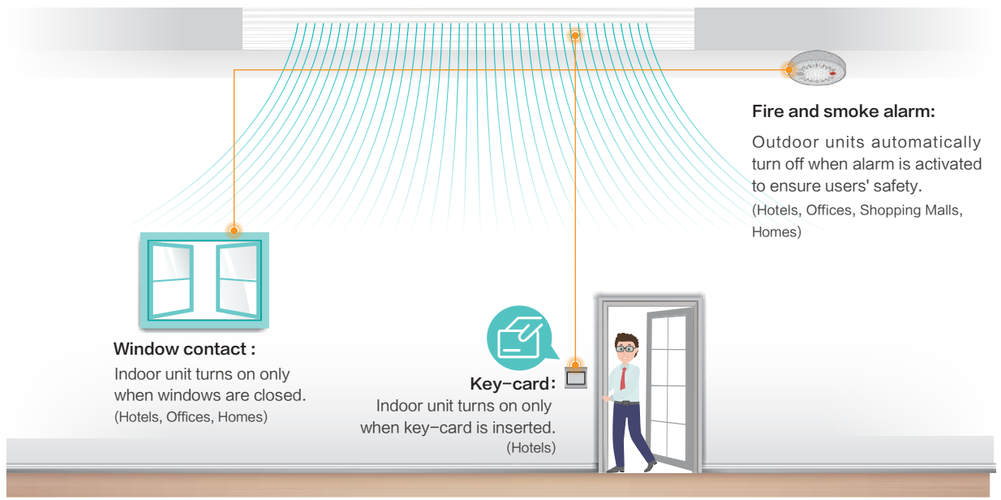
Standard filters that comes with high/low static pressure ceiling ducted type are now optimized to be bendable by improving the material's mal-leability to improve installation flexibility in narrow ceiling height and restricted spaces.

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

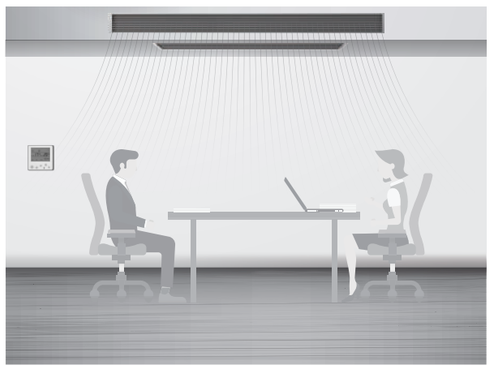
Third party devices to control the on-off air conditioners is possible with dry contact connections to the Indoor unit. Devices like room key card, window contact and fire alarms can be connected simultaneously.



Smart & Precise Temperature Control

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

Hisense VRF



Conventional

Ceiling Ducted Type (High Static Pressure)

Model			AVD-07 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 H3FC	AVD-15 H3FCH	AVD-19 H3FCH	AVD-22 H3FCH	AVD-24 H3FCH	AVD-27 H3FCH	AVD-30 H3FCH	AVD-38 H3FCH	AVD-48 H3FCH	AVD-54 H3FCH	—	—
Power Supply			AC 1Φ, 208~230V/60Hz													
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
		Btu/h	7500	9600	12300	15400	19100	21600	24200	27400	30800	38000	48000	54500	76500	95600
	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5
		Btu/h	8500	10900	13700	17100	21600	24200	27400	30800	34200	42500	54500	61500	85300	107500
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)		m^3/min	9/7/6	9/7/6	12/10/8.5	12/10/8.5	15/13/10	19/14/10	19/14/10	28/24/19.5	28/24/19.5	28/24/19.5	35.5/29/24	39/31/24	58	77.5
External Static Pressure	220~240V/50Hz 208V/60Hz	Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	220	220
	230V/60Hz	Pa	80(105)	80(105)	90(115)	90(115)	90(115)	90(115)	90(115)	170(150)	170(150)	170(150)	170(150)	170(150)	-	-
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)												Brazing	
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ 6.35	Φ9.53	Φ 9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ 15.88	Φ15.88	Φ 15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
		inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	3/4	7/8
	Condensate Drain	mm	I.D.32													
Weight	Net Weight	kg	25(24*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	29(30*1)	29(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)	112	123
Dimensions	External H	mm	270	270	270	270	270	270	270	300	300	300	300	300	470	470
	External W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1060	1250
	External D	mm	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
	Packaging H	mm	385	385	385	385	385	385	385	415	415	415	415	415	546	546
	Packaging W	mm	895	895	895	895	1140	1140	1140	1345	1345	1345	1640	1640	1276	1466
	Packaging D	mm	870	870	870	870	870	870	870	950	950	950	950	950	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, the filter is not standard.

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*1 X6SEL	AVD-96U*1 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)		m^3/min	9/7/6	9/7/6	12/10/8.5	12/10/8.5	15/13/10	19/14/10	19/14/10	28/24/19.5	28/24/19.5	28/24/19.5	35.5/29/24	39/31/24	58	72
External Static Pressure		Pa	30	30	30	30	30	30	30	60	60	60	60	60	100	100
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)												Brazing	
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
		inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	3/4	7/8
	Condensate Drain	mm	I.D.32													
Weight	Net Weight	kg	25	25	25	25	30	30	30	45	45	45	52	52	94	106
	Gross Weight	kg	31	31	31	31	36	37	37	52	52	52	61	61	106	111
Dimensions	External H	mm	270	270	270	270	270	270	270	300	300	300	300	300	470	470
	External W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1060	1250
	External D	mm	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
	Packaging H	mm	385	385	385	385	385	385	385	415	415	415	415	415	546	546
	Packaging W	mm	895	895	895	895	1140	1140	1140	1345	1345	1345	1640	1640	1276	1466
	Packaging D	mm	870	870	870	870	870	870	870	950	950	950	950	950	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.

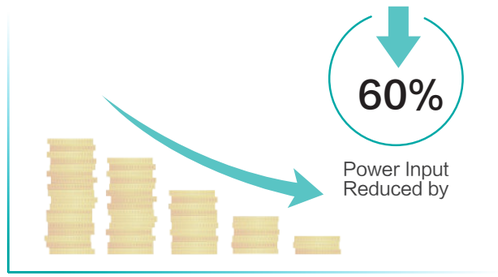
3. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

1: For AVD-76/96, the filter is not standard.

Wall Mounted Type

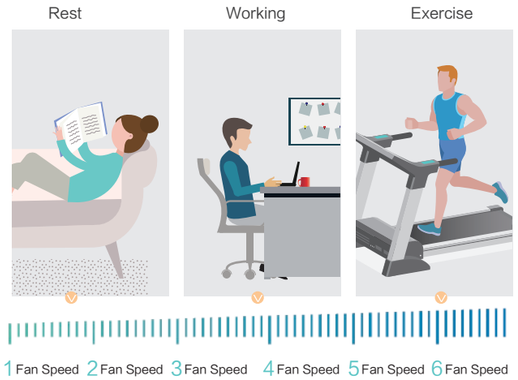
High-efficiency DC Fan Motor

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

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/h	520/500/490/ 450/430/420	590/550/520/ 490/450/420	590/550/520/ 490/450/420	620/550/520/ 490/450/420	690/660/620/ 540/520/480	970/900/850/ 800/730/690	1200/1080/1020/ 900/800/700	1400/1320/1200/ 1020/850/730
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.

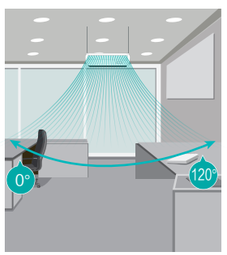
Flexible Installation

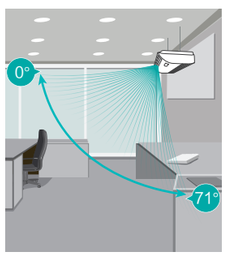
The unit can be installed to be standing on floors or hanging on ceilings. Whereby interior walls maximized to display items, can hang the unit on the ceiling.

Hanging on the wall Standing on the floor

Wide Air Supply

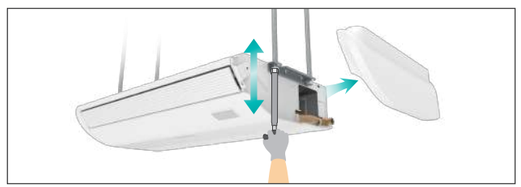
Louvers are consist of horizontal and vertical flaps to cover larger coverage area to the edges of any rooms. Wider opening angle from up to 120° for vertical louvers and up to 71° for horizontal louvers supply air further and lower down to floor needed during heating modes.

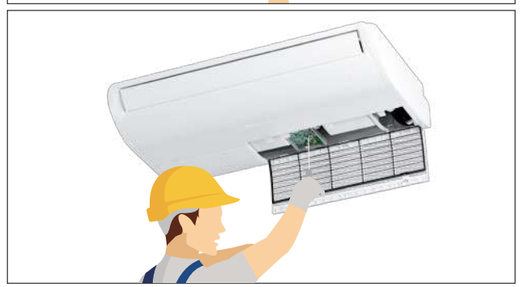




Convenient Installation and Maintenance

Adjust the ceiling or wall mounting height by just opening the side panels without the need to access the internal parts. Service manholes are unnecessary due to the strategic repositioning of piping connections and electri-cal box behind the air return panel.





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	Neture White	Neture White	Neture White	Neture White	Neture White	Neture White	Neture White
Piping	Connection Type	-	Flare-nut Connection(with Flare Nuts)							
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53
		inch	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88
		inch	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm	I.D.32							
Weight	Net Weight	kg	31	31	32	32	39	40	41	47
	Gross Weight	kg	38	38	39	39	46	47	48	56
Dimensions	External	H mm	230	230	230	230	230	230	230	230
		W mm	990	990	990	990	1285	1285	1285	1580
		D mm	680	680	680	680	680	680	680	680
	Packaging	H mm	340	340	340	340	340	340	340	340
		W mm	1110	1110	1110	1110	1400	1400	1400	1690
		D mm	830	830	830	830	830	830	830	830

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ 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.

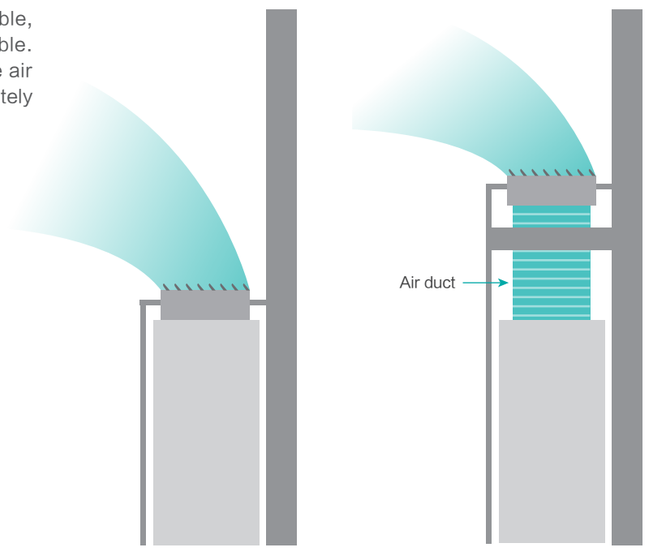
Floor Concealed Type

Space Saving

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

Adjustable Static Pressure and Flexible Installation

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



Model			AVH-09UXCSAA	AVH-14UXCSAA	AVH-18UXCSBA	AVH-24UXCSBA
Power Supply			AC 1Φ, 220V~240V/50Hz			
Model			AVH-09UX2SAA	AVH-14UX2SAA	AVH-18UX2SBA	AVH-24UX2SBA
Power Supply			AC 1Φ, 220V/60Hz			
Capacity	Cooling	kW	2.8	4.3	5.6	7.1
		Btu/h	9,600	14,700	19,100	24,200
	Heating	kW	3.3	4.9	6.5	8.5
		Btu/h	11,300	16,700	22,200	29,000
Power Input	Cooling	W	50	80	90	120
	Heating	W	50	80	90	120
Sound Pressure		dB(A)	34/31/27	40/36/34	41/36/32	44/40/36
Airflow Rate		m^3/min	8.5/7.5/6.3	10.3/9.0/8.0	14.8/12.3/10.5	16.3/13.8/11.8
Piping	Connection Type	-	Flare-nut Connection(with Flare Nuts)			
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53
		inch	1/4	1/4	1/4	3/8
	Gas	mm	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88
		inch	1/2	1/2	5/8	5/8
	Condensate Drain	mm	I.D.32			
Weight	Net Weight	kg	18	22	26	27
	Gross Weight	kg	30	31	37	37
Dimensions	External	H mm	620	620	620	620
		W mm	948+139	948+139	1218+139	1218+139
		D mm	202	202	202	202
	Packaging	H mm	675	675	675	675
		W mm	1160	1160	1430	1430
		D mm	240	240	240	240

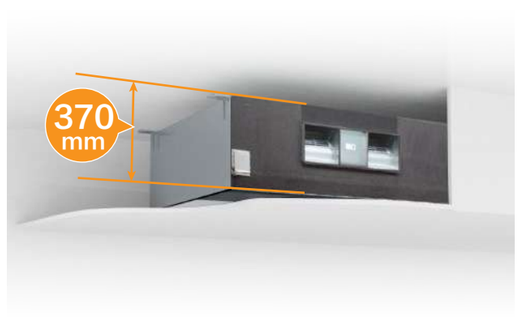
Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ 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

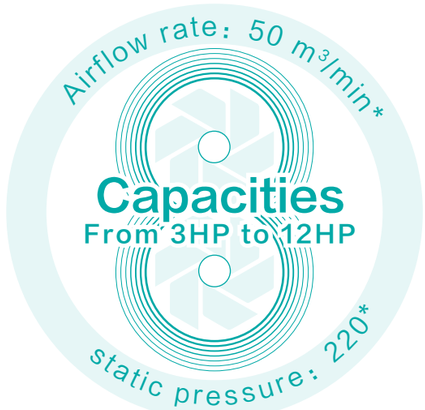
Space Saving

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

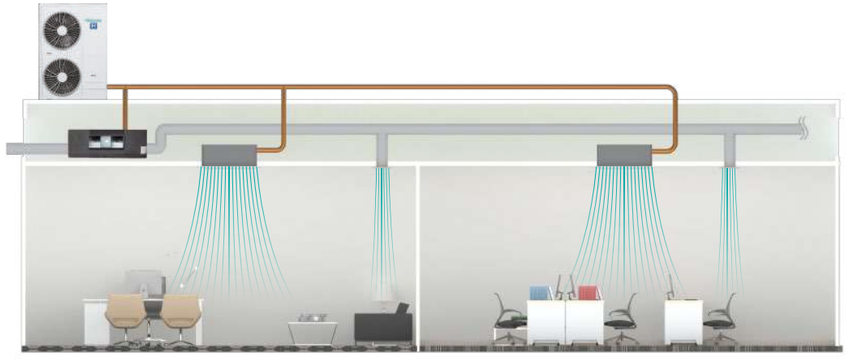
The total amount of fresh air units could be reduced with larger capacity, large airflow rate per unit. With the reduced amount of units, fresh air ducts often need to be supply to the furthest room. Hence achievable with high static pressures offered.



*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 fan coil 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	1466	1466	1466
		D mm	922	922	1290	1290	1290
Temperature Range of Fresh Air		–	Cooling: 20℃~43℃, Heating: -5℃~15℃				

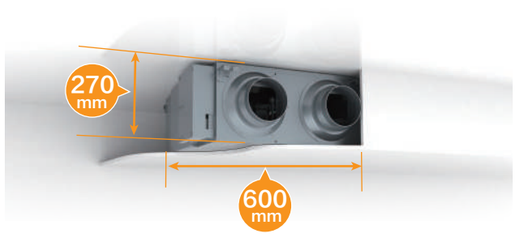
NOTES:

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*).

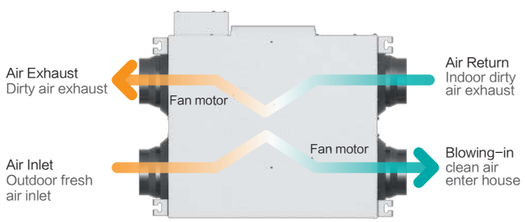
Heat Recovery Ventilator

Compact Machine, Convenient Installation.

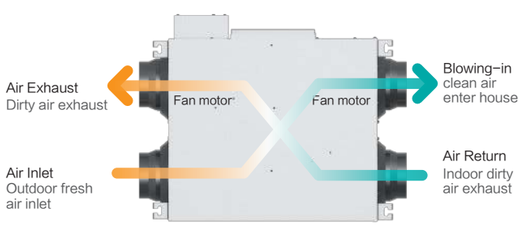
The thickness of machine can be easily installed in the narrow residential ceiling. The width of the machine whose volume is under 300 m^3/h is less than 600mm, which is particularly suitable for very narrow spaces in the ceiling, and can save the space of installation, it is more convenient for construction.



Airflow System



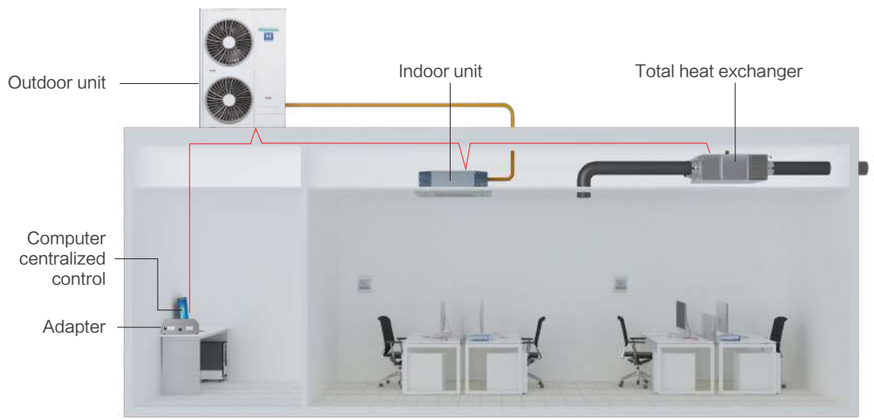
HKF-15B2EC~HKF-100B2EC



HKF-150B2EE~HKL-500B2EE

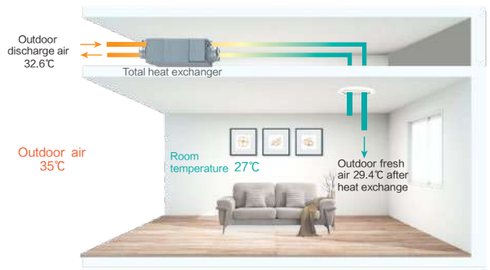
Centralized Control System

Hisense heat recovery ventilator can be connected to the Hisense VRF Central Control System, achieving the central control from Hisense VRF controllers. The operation is more convenient and more intelligent.



Energy Saving Analysis

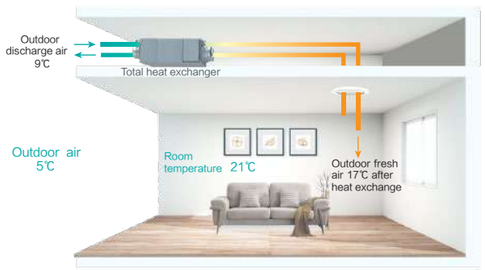
Summer Energy Saving Analysis



Total heat exchanger mode

In summer operation, when the cold energy of 27℃ air discharged from indoor pass through the heat exchanger, the 35℃ outdoor hot air is pre-cooled to 29.4℃ fresh air and supplied to indoors, as shown above, the air conditioner only needs to cool the air by 2.4℃ to maintain a comfortable room temperature and fresh air. In this process, the discharge air pre-cools the fresh air by HRV, The temperature recovery efficiency in cooling is 70% max, and enthalpy exchange efficiency is 57% max.

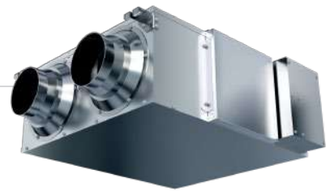
Winter Energy Saving Analysis



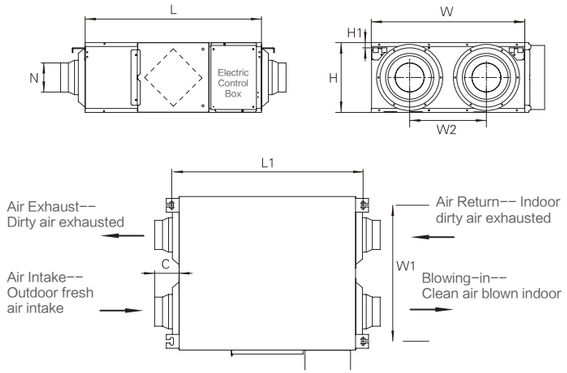
Total heat exchanger mode

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

HKF-15B2EC



Product Dimensions



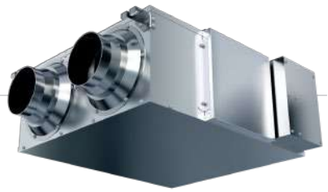
Model	L	L1	W	W1	W2	H	C	N	H1
HKF-15B2EC*	665	723	580	514	290	265	90	Φ144	20

Technical Parameters

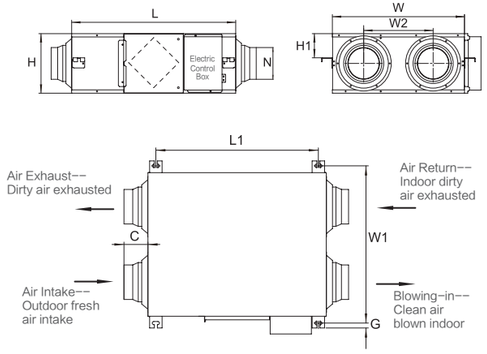
Model	Air Volume m^3/h			Enthalpy Efficiency (Summer) η			Enthalpy Efficiency (Winter) η			External Static Pressure Pa			Power Supply	Input Current A			Input Power kW			Noise Level dB(A)			Weight kg
	High	Middle	Low	High	Middle	Low	High	Middle	Low	High	Middle	Low		High	Middle	Low	High	Middle	Low	High	Middle	Low	
HKF-15B2EC*	150	150	110	58	58	60	65	65	69	85	70	65	220-240V /50HZ	0.38	0.36	0.31	2× 0.041	2× 0.038	2× 0.029	30	29	28	25

*: 220V/60Hz HKF-15B2E2

HKF-25B2EC~HKF-100B2EC



Product Dimensions



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

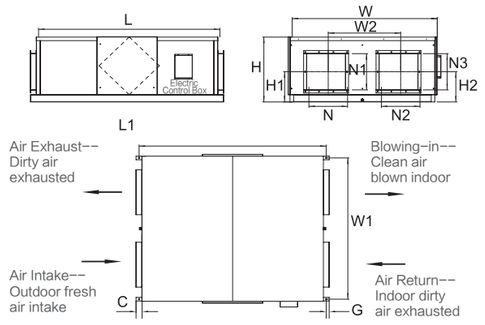
Technical Parameters

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

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

HKF-150B2EE~HKF-200B2EE

Product Dimensions



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

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

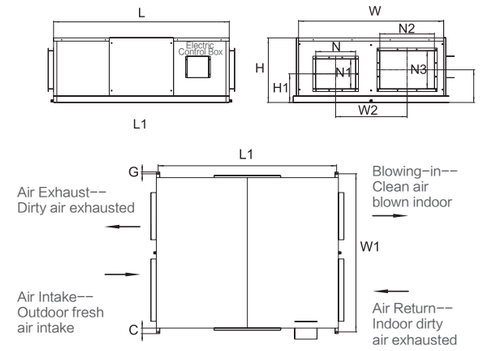
Technical Parameters

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

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

HKF-250B2EE~HKF-300B2EE

Product Dimensions



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

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

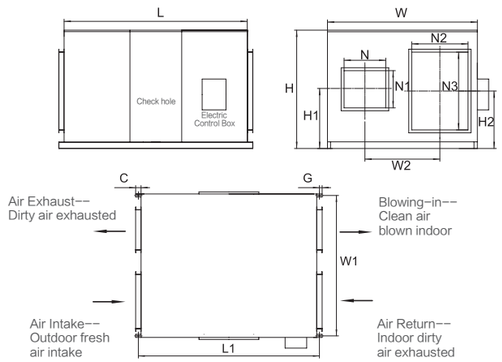
Technical Parameters

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

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

HKL-400B2EE~HKL-500B2EE

Product Dimensions



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

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

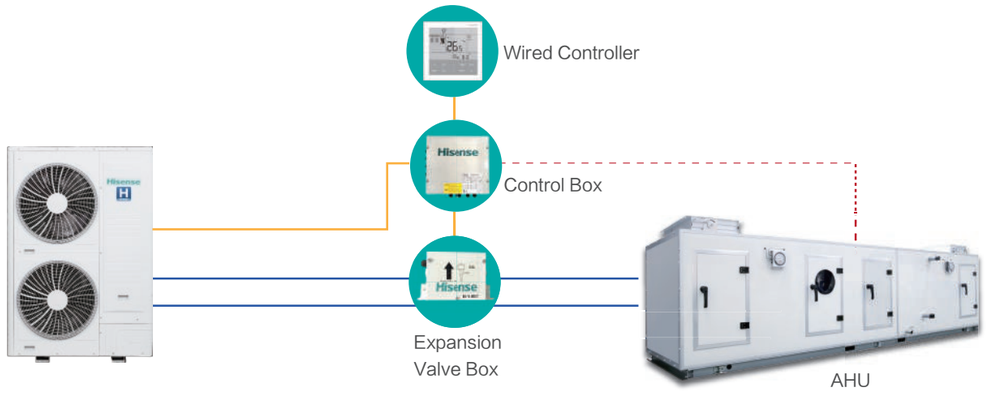
Technical Parameters

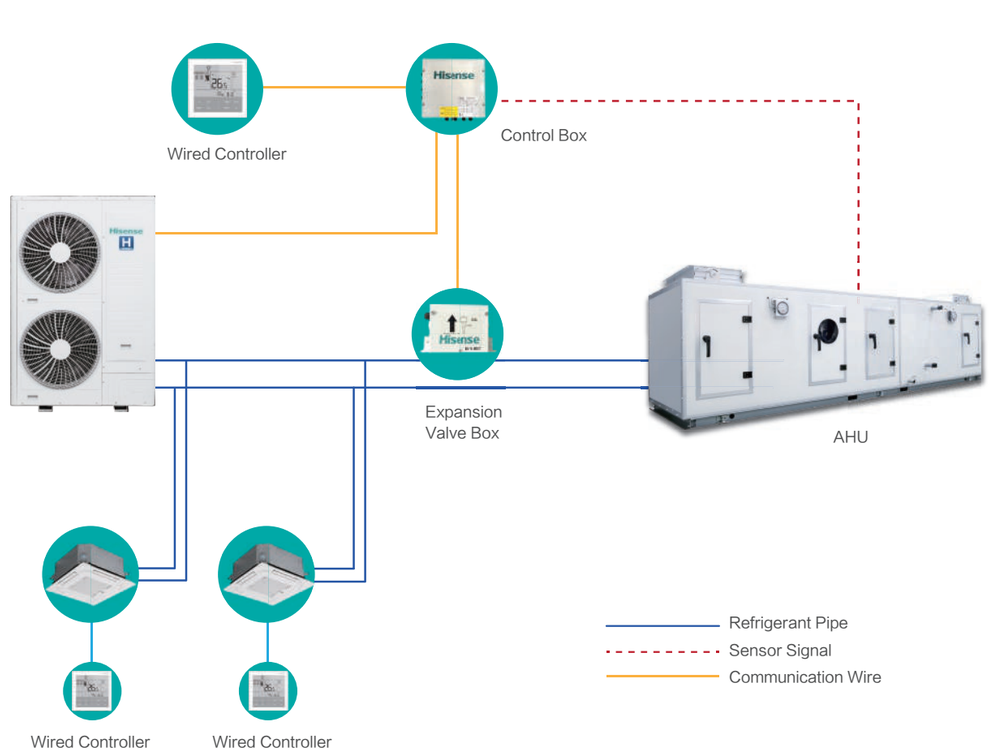
Model	Air Volume m³/h	Enthalpy Efficiency (Summer) η i	Enthalpy Efficiency (Winter) η i	External Static Pressure Pa	Power Supply	Input Current A	Input Power kW	Noise Level dB(A)	Weight kg
HKL-400B2EE*	4000	55	63	220	380~415V/50Hz	5.89	2×1.71	57	312
HKL-500B2EE*	5000	53	61	240	380~415V/50Hz	8.78	2×2.2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

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

DX Application

It can be connected with AHU via the AHU Kit, providing flexible solutions of air conditioning.





- When it is online, the connection can only be made by dragging and dropping, and the ratio must be 100%.
- The temperature control of return air and air outlet air can be satisfied and can be set by function selection.

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, 220V~240V/60Hz														
Nominal Capacity of AHU		HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Allowed Heat Exchanger Capacity (H/M/L)		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
	Cooling	kW	5.0	9.0	14.0	20.0	25.0	30.0	35.0	43.0	48.0	52.0	58.0	65.0	71.0	76.0	82.0
		kW	5.6	11.2	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0	85.0
		kW	4.5	8.0	12.5	17.9	22.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0
	Heating	kW	5.6	10.0	16.0	22.4	28.0	33.5	40.0	47.5	53.0	60.0	66.0	75.0	79.0	86.0	92.0
		kW	7.1	12.5	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0	95.0
Heat Exchanger Volume	Min	dm^3	0.57	1.03	1.92	2.92	3.89	4.76	5.85	6.79	7.57	8.47	9.04	9.50	10.39	11.39	12.36
	Max	dm^3	1.16	2.37	2.92	3.89	4.76	5.91	6.89	8	8.92	9.97	11.13	12.34	12.89	13.86	14.73
Equivalent Indoor Unit Capacity		HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Net Weight		kg	7.3	7.3	7.3	7.3		7.5					9.5				
Gross Weight		kg	12.3	12.4	12.4	12.4		12.5					16.0				
Package Dimension (H × W × D)		mm	350 × 510 × 450										460 × 510 × 450				
Control Box	Model		HZX-AEC/1														
	Outer Dimension(H × W × D)		349 × 419 × 112														
Expansion Valve Box	Model		HZX-2.0 AEC/2	HZX-4.0 AEC/2	HZX-6.0 AEC/2	HZX-10.0 AEC/2		HZX-20.0 AEC/2					HZX-20.0 AEC/2 (2 sets)				
	Outer Dimension(H × W × D)		166 × 437 × 61										166 × 437 × 61(2 sets)				

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

DB: dry bulb; WB: wet bulb
Pipe Length: 7.5m; pipe height: 0m

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

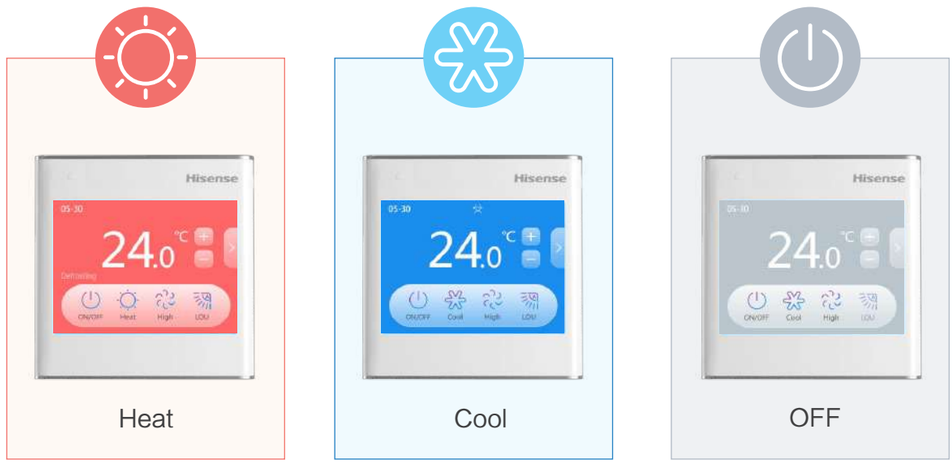
HYXM-VB01A

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



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

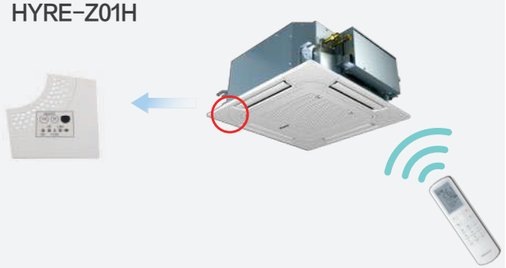
- Size:178.6mm × 47.8mm
- LCD display with back light

Receiver Kit for Wireless Control-Optional

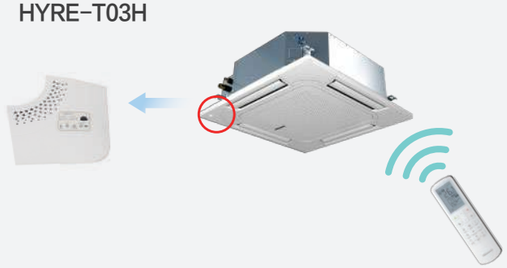
HYRE-X01H

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

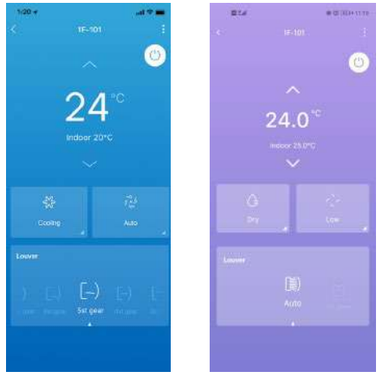
- Size:120mm × 120mm
- Max. connectable indoor units:128
- Max.connectable indoor unit groups:16
- Touch button

Intelligent Control

Anytime and anywhere, control is in your hands

Brand-new Adapter and App

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

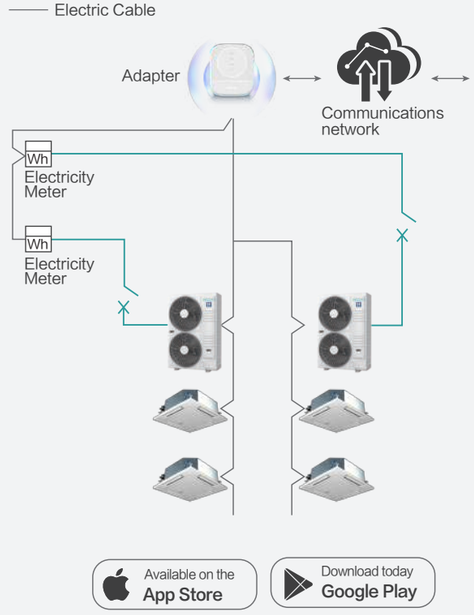


Convenient Control

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

Energy management interface

Customized mode interface



Strong Capability

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

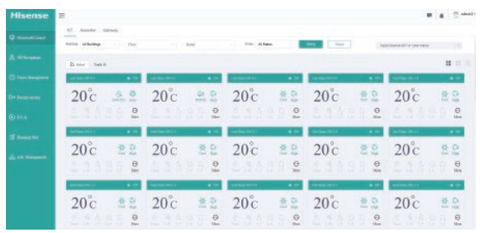
Specifications

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

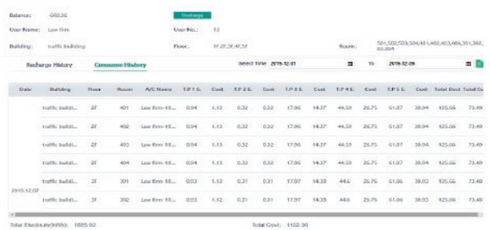
Features

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

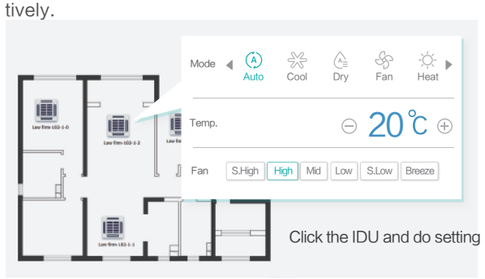
◉Humanized interaction interface and comfortable user experience.



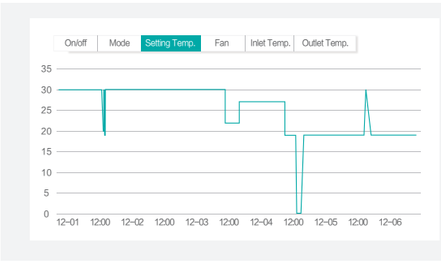
◉The electricity consumption allocation makes it easy for users to allocate total electricity consumption among building occupants. Both segmented tariff and single tariff are available.

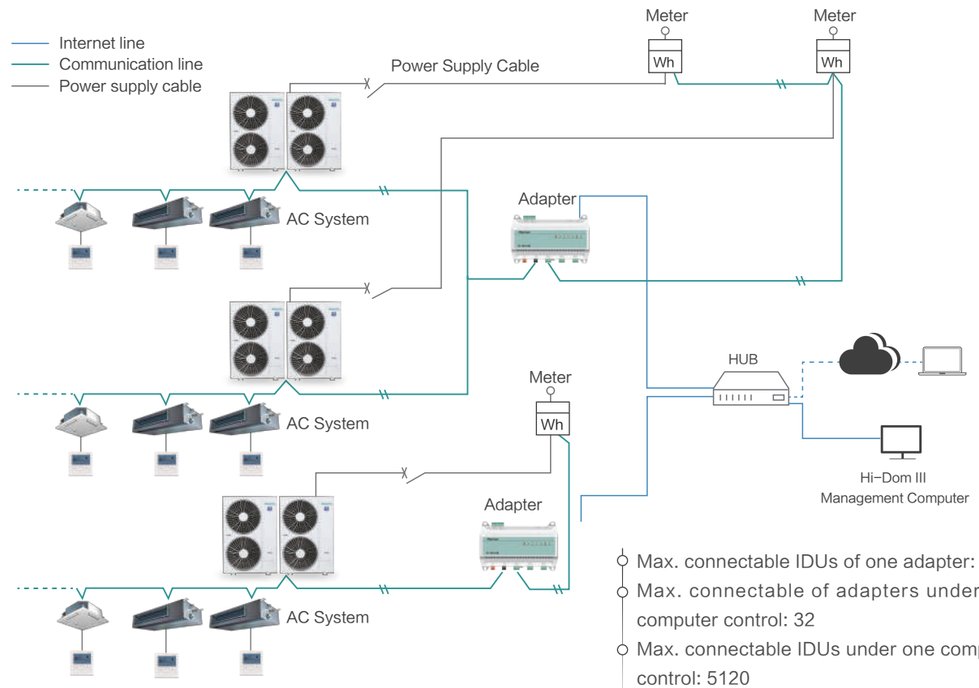


◉Thanks to the 2D navigation, users can import floor plans and place indoor units in the corresponding rooms, creating a tailored system schematic. Thus all the indoor units can be monitored and controlled intuitively.



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





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

Specifications

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

Intelligent service tool, improves your service

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

- Small and Portable Body
- Remote Access
- Black Box Function
- Powerful Chats
- OTA Update

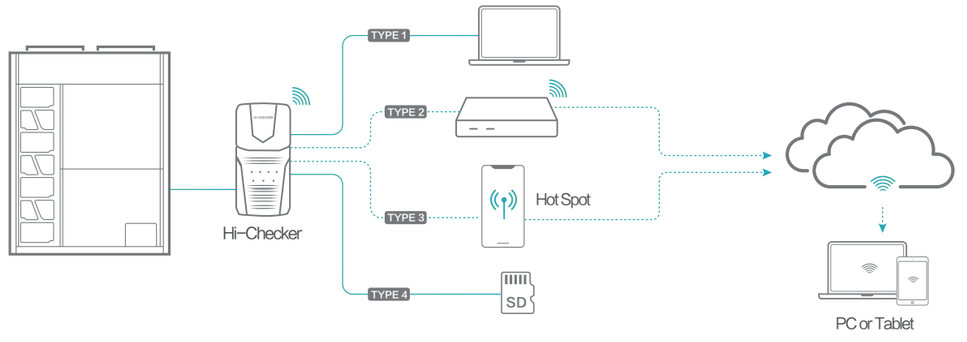
Easy to Use

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

Easy to Access

4 Ways to Access the Operation Data

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



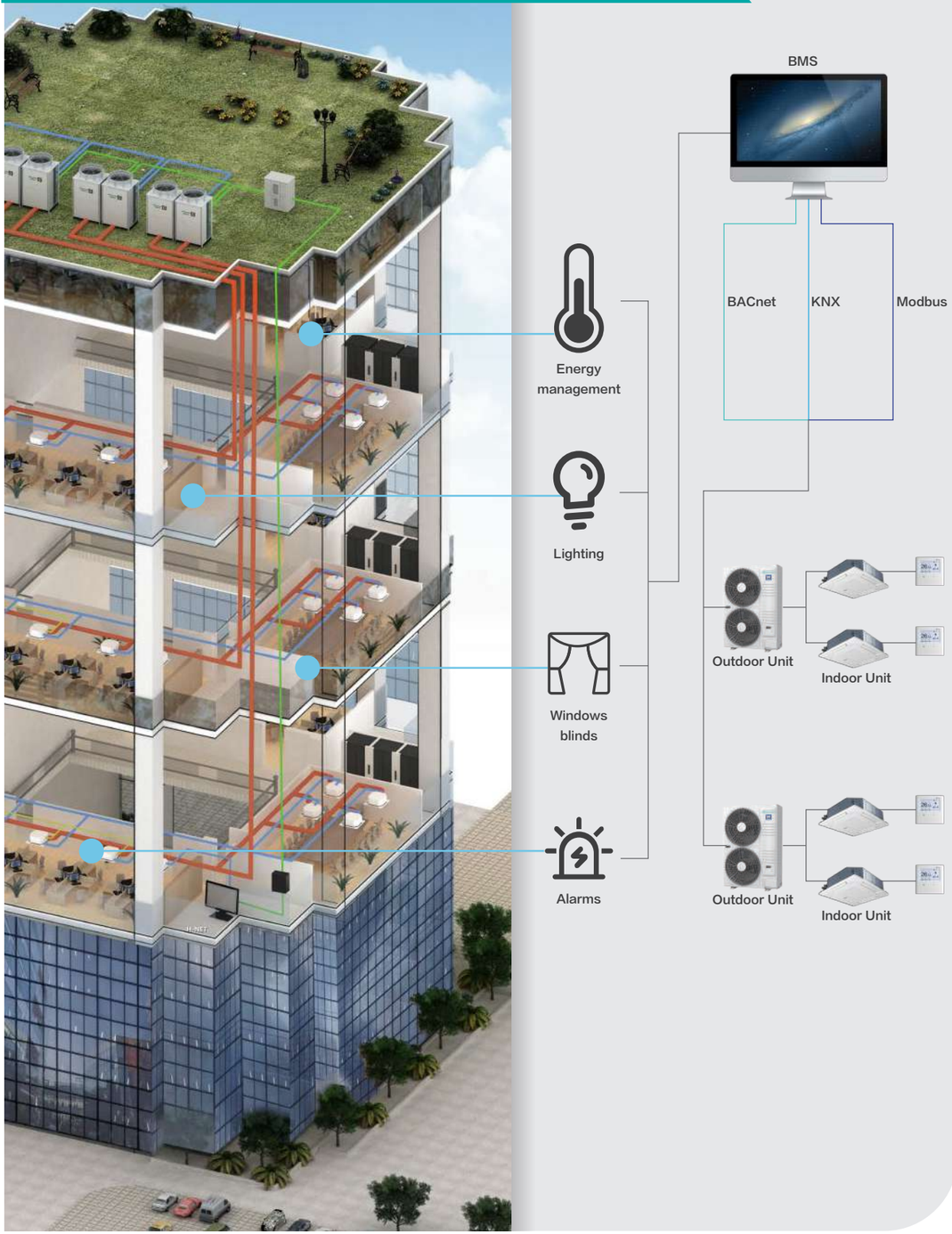
Easy to Understand

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

Specifications

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

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.

Optional Part

Hi-Motion

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

Motion Sensor

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

Fresh Air Duct Adapter

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

Humidity Sensor

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

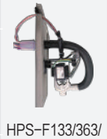
Filter

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

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

Optional Part

Drain Pump

Model	Applicable Models	Power Supply	Picture
HPS-F133E	AVD-07~24HJFH / AVD-07-24HCFCH / AVD-07-24HCFCL	220-240V/50Hz	 HPS-F133/363/134/364E
HPS-F363E	AVD-24HJFH1 / AVD-30~54HJFH / AVD-27-54HCFCH / AVD-27-54HCFCL		
HPS-F134E	AVD-07-24H3FCH	208-230V/60Hz	
HPS-F364E	AVD-27-54H3FCH		
HPS-151	All the High/Low Static Pressure Ceiling Ducted Units and All Fresh Air IDU 3-10HP	220-240V/50/60Hz	 HPS-151
HPS-F8103E	AVD-76/96HJFH	220-240V/50/60Hz	 HPS-F8103E

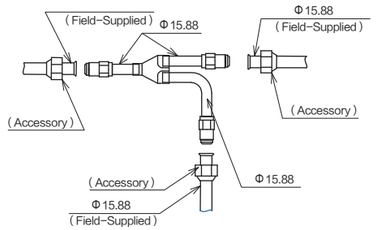
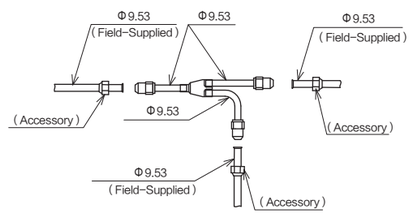
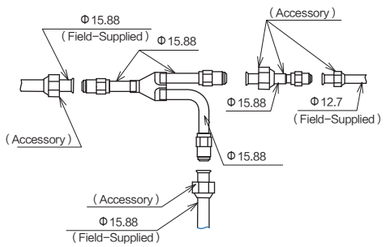
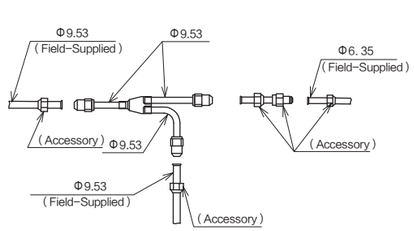
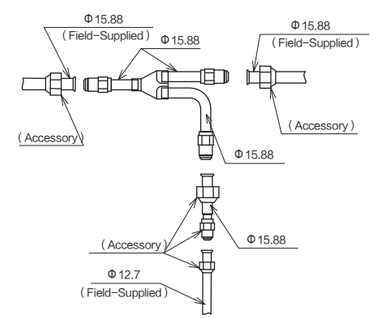
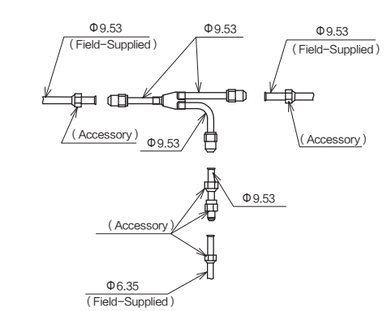
3D Air-flow Panel

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	

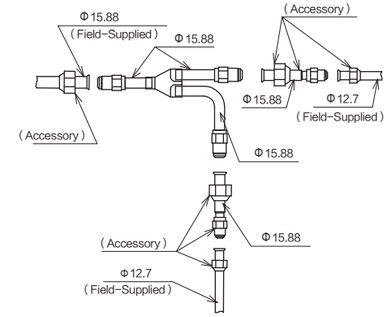
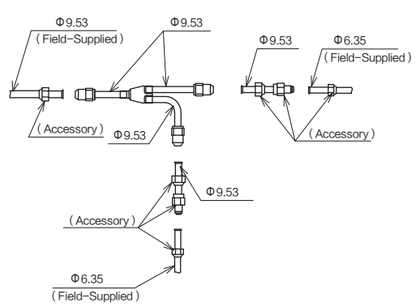
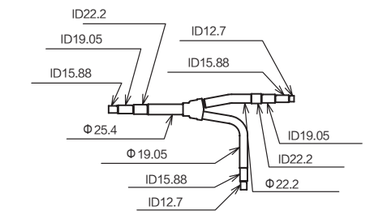
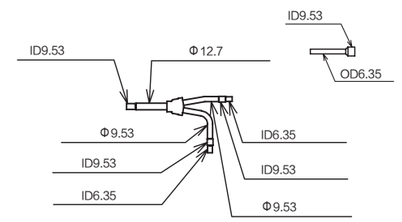
AirPure Kit

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,Wall Mounted	

Branch Pipe

Case	Gas	Liquid
HFQ-052F#EN 1		
HFQ-052F#EN 2		
HFQ-052F#EN 3		

Branch Pipe

Case	Gas	Liquid
HFQ-052F#EN		
HFQ-102F#E		Q'ty : 2 

Note:The fare-nut branch pipe is only suit for outdoor unit with capacity 3~6HP.